

Engaged Scholarship Report 2023



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Engaged Scholarship Report 2023

Compiled by the Directorate of Community Engagement
for the Senate Committee on Engaged Scholarship



Index

Message from Dr Molapo Qhobela, Deputy Vice-Chancellor: Institutional Change, Strategic Partnerships and Societal Impact	4
Message from Bishop Billyboy Ramahlele, Director of the Directorate Community Engagement	5
Introduction	6
Engaged Research	9
Faculty of Economic and Management Sciences	11
Table 1: EMS - Citations in alignment with Sustainable Development Goals	13
Table 2: EMS - Dissemination of research and scholarship through platforms such as Webinars, Public Lectures, Media, Policy briefs	19

Table 3: EMS - Academics serving on international professional platforms	20
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Faculty of Education	21
-----------------------------	-----------

Table 4: EDU - Citations in alignment with Sustainable Development Goals	23
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Table 5: EDU - Dissemination of research and scholarship through platforms such as Webinars, Public Lectures, Media, Policy briefs	26
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Faculty of Health Sciences	27
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Table 6: FoH - Citations in alignment with Sustainable Development Goals	29
--	----

Table 7: FoH - Dissemination of research and scholarship through platforms such as Webinars, Public Lectures, Media, Policy briefs	35
--	----

Table 8: FoH - Academics serving on international professional platforms	36
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Faculty of the Humanities	37	Faculty of Theology and Religion	159
Table 9: HUM – Citations in alignment with Sustainable Development Goals	39	Table 16: Theology and Religion – Citations in alignment with Sustainable Goals Development	161
Table 10: HUM – Dissemination of research and scholarship through platforms such as Webinars, Public Lectures, Media, Policy briefs	49	Table 17: Theology and Religion – Dissemination of research and scholarship through platforms such as Webinars, Public Lectures, Media, Policy briefs (per Department)	162
Table 11: HUM – Academics serving on international professional platforms	55	Table 18: Theology and Religion – Academics serving on international professional platforms	166
Faculty of Law	57	Engaged Teaching and Learning	167
Table 12: Law – Citations in alignment with Sustainable Development Goals	59	Engaged Citizenship	177
Faculty of Natural and Agricultural Sciences	61	Community Engagement Indaba	182
Table 13: NAS – Citations in alignment with Sustainable Development Goals	63	Conclusion	184
Table 14: NAS – Dissemination of research and scholarship through platforms such as Webinars, Public Lectures, Media, Policy briefs (per Department)	122		
Table 15: NAS – Academics serving on international professional platforms	154		

Message from

Dr Molapo Qhobela

*Deputy Vice-Chancellor: Institutional Change,
Strategic Partnerships and Societal Impact*



During the recent University of the Free State Senate Conference on Engaged Scholarship, titled *Making Change through Engaged Scholarship*, the following introduction to the conference was presented, which lays a basis for the compilation of this **Engaged Scholarship Report 2023**:

"A university is not only a repository of past knowledge and information that society deems most important, it is also an incubator where new ideas are born and discoveries made, a generator

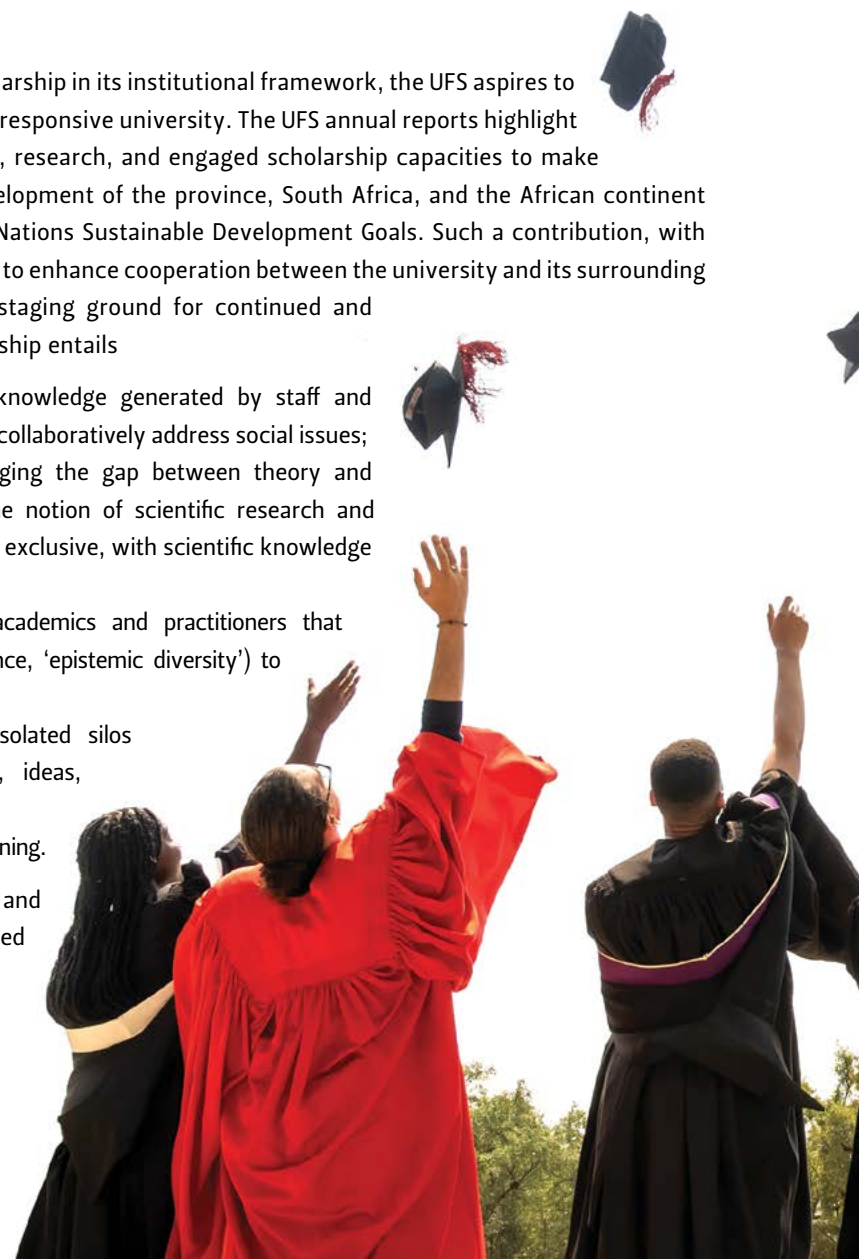
of economic activity within a region or state, an arbiter of competing opinions and beliefs that cannot be expressed freely anywhere else, and a broker who can bring multiple players to the table to address significant questions that cannot be answered by any one group alone" (Catherine Emihovich, 2009, *Journal of Curriculum and Pedagogy*, 6(2): 48).

If *Vision 130* (the UFS Strategic Plan) is about 'renewal and reimagination for greater impact', it remains meaningless if we are blind to the central values that underpin the prospect of change: excellence, innovation and impact, accountability, care, social justice, and sustainability. These values are inextricably linked to our aspirations of being research-led, student-centred, and regionally engaged in the mission to produce globally competitive graduates and knowledge. More importantly, a central element of our impactful engagement that cuts across all aspects of the Academic Project is 'engaged scholarship' for the public good. Through its

commitment to embed engaged scholarship in its institutional framework, the UFS aspires to become a model of a truly robust and responsive university. The UFS annual reports highlight the importance of teaching, learning, research, and engaged scholarship capacities to make a significant contribution to the development of the province, South Africa, and the African continent – all within the ambit of the United Nations Sustainable Development Goals. Such a contribution, with engaged scholarship at its heart, aims to enhance cooperation between the university and its surrounding community by using the UFS as a staging ground for continued and creative interaction. Engaged scholarship entails

- an intentional effort to connect knowledge generated by staff and disseminated to the wider public to collaboratively address social issues;
- making research relevant by bridging the gap between theory and practice in order to counteract the notion of scientific research and practical knowledge being mutually exclusive, with scientific knowledge occupying a privileged position;
- a collaborative enquiry between academics and practitioners that leverages multiple perspectives (hence, 'epistemic diversity') to generate knowledge;
- breaking down established and isolated silos (disciplinary boundaries, methods, ideas, etc); and
- enabling reflexivity in collaborative learning.

Our gratitude goes to all staff, students, and stakeholders for the hard work reflected in this report.



*Message from***Bishop Billyboy Ramahlele***Director of the**Directorate Community Engagement*

This report is the first attempt by the University of the Free State to document and highlight the work done through the Engaged Scholarship portfolio. The report aims to lay a foundation for the development of an institutional management system that is integrated into processes accessible for both recording and evaluating the efforts by the university to implement the Engaged Scholarship strategy and policy.



While compiling this report, it became apparent that information and data about Engaged Scholarship lies on different management platforms. Our collaboration with the Directorate for Institutional Research and Academic Planning (DIRAP) and the Library and Information Services enabled us to collate information contained in this report.

We want to express our gratitude to all university departments for helping us to access the relevant information for this report. We also want to thank all members of the Senate Committee on Engaged Scholarship for their guidance and contributions. We are looking forward to the next cycle of reporting, which will be more inclusive of all the elements of the university's Engaged Scholarship portfolio.

We are convinced that the socialisation of the Engaged Scholarship strategy is bearing fruit, as more staff and students are getting engaged. We are excited by the manner in which staff and students are embracing the Engaged Scholarship strategy.



Introduction

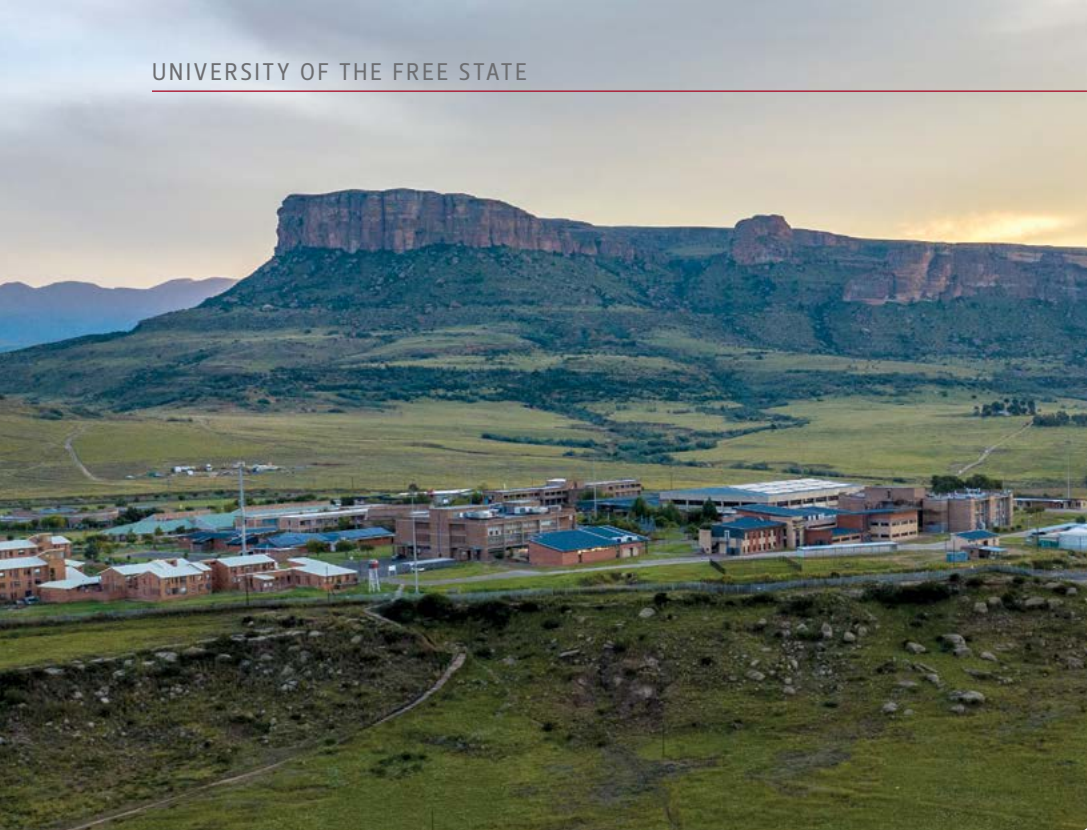
Universities are important institutions for the development of individuals, societies, and economies. As knowledge centres for innovation, research, dissemination, and application, the impact of a university is felt locally to globally. The world faces many complex interrelated challenges, including economic disparities, food insecurity, environmental degradation, climate change, and political instability. In South Africa, growth, unemployment, poverty, and inequality have been persistent areas of concern.

These challenges place an increased expectation on universities. This is certainly the case in South Africa, where universities are expected to play an important role in providing skills, building the economy, solving persistent social problems, and transforming our post-apartheid society. Against this background, the University of the Free State (UFS) aims to continue to grow and extend its influence and impact locally, regionally, and globally.

Vision

In its vision, the University of the Free State aspires to be a research-led, student-centred, and regionally engaged university that contributes to development and social justice through the production of globally competitive graduates and knowledge.

- *Research-led* emphasises the parity between research, teaching, and learning for impact, with the express intention of significantly increasing the UFS' research capacity and capability.
- *Student-centred* commits us to promoting the learning experiences, academic support strategies, and other forms of assistance that respond to the various needs, aspirations, and social backgrounds of the diverse student community.
- *Regionally engaged* reflects our intent to ensure that our knowledge contributes to the development of the Free State, South Africa, and the African continent.
- *Globally competitive graduates and knowledge* refers to excellence and our intent to produce knowledge and graduates that make an impact on global and local platforms.



Values

In line with its vision, the UFS subscribes to *values* that shape and inform our culture and provide a framework for our actions and decisions. Our values are realised through the conduct of the wider university community, including excellence, innovation and impact, accountability, care, social justice, and sustainability:



Excellence: We are committed to pursuing excellence in every aspect of university life. We look at excellence as an idea that is more than a benchmark, more than a goal, more than a distant destination. In the context of the Academic Project, excellence is the foundation of rigour in our scholarship, including the advancement, imparting, and application of knowledge. It informs our learning and teaching, wider engagement, as well as our management and governance processes.



Innovation and impact: The university's goal is to be a university that impactfully supports societal development. We value and encourage creativity and strive to identify, question, and challenge the status quo. Our knowledge will continue to contribute to the development of the Free State, South Africa, and the African continent and to advance global knowledge and understanding.



Accountability: We recognise our obligation to our students, staff, stakeholders, society in general, and the global knowledge community. To this end, we will be stewards of good governance who are accountable, responsible, and dutiful in our actions. We will be conscientious in our utilisation of the financial and physical resources of the university as well as concerning our impact on the wider environment.



Sustainability: We commit to ethical and responsible stewardship of all institutional resources, processes, and practices to ensure operational, financial, environmental, and societal sustainability. Further, we aspire to live in harmony with our environment, and this will influence all our choices and decisions.



Social justice: In the pursuit of social justice, we seek to advance the values of human dignity through ethical and transparent institutional responsiveness. We interpret social justice within the South African historical context to entail an emphasis on inclusiveness, the reduction of inequality, and the creation of opportunities and pathways out of poverty and dispossession. Our commitment to social justice is our call to everyone to build on the productive foundations laid by all, and to build new structures in pursuit of truths and practices that will grant human dignity to everybody.



Care: We are committed to creating circumstances that are not only conducive to high-quality teaching, learning, and scholarship, but doing this in ways that emphasise the well-being and happiness of the university community. We are therefore committed to caring for ourselves, our fellow humans, and the natural environment. We seek a new citizenship and new ways of belonging to the UFS that are premised on respect, inclusivity, listening, and empathy.

Engaged Scholarship

In enactment of its vision and values, the UFS contributes to knowledge through *Engaged Scholarship*, which refers to the utilisation of our academic scholarly and/or professional expertise, with an intentional public purpose and mutual benefit that has a direct or indirect impact on society. Engaged scholarship is also about the generation, integration, application, and dissemination of knowledge and can inform policy and practice in local, national, regional, and global contexts. Our model for engaged scholarship comprises three pillars, namely *Engaged Research, Engaged Learning and Teaching, and Engaged Citizenship*.

Engaged research involves research that has a direct and or indirect impact on **society** while advancing **knowledge**. **Societal impact** refers to the value that knowledge adds to society across various spheres, whether social, economic, or environmental. Societal impact reflects the direct or indirect relationship between the knowledge agenda, its process, and the improvement in the quality of people's lives, inclusive of innovation, technological advancements, improved sustainability, and policy developments. **Knowledge impact** refers to scientific advances in understanding, interpretation, methods, theory, application, and related advances that bring about positive change within and/or across disciplines and fields. Engaged research incorporates the discovery, innovation, integration, application, development, and mobilisation of knowledge for the benefit of society. Engaged research may also include creative output and other expressions or activities. Of essence is that engaged research must be systematic and rigorous. Results need to be disseminated in publications for debate and must be critiqued by peers.

Engaged learning and teaching includes, but is not limited to, learning and teaching activities that proactively and positively impact society and enhance student graduate attributes. The design and delivery of learning and teaching programmes and modules ideally need to be informed and responsive to societal needs. In engaged learning and teaching, students are broadly prepared with high-quality education and the promotion of lifelong learning to gain knowledge, skills, and values required for the development of personal, professional, social, and economic/employability graduate attributes. This implies creating a more resilient, blended, technology-enhanced pedagogical approach that will enable learning and teaching that meets 21st century demands to engage thoughtfully with societal challenges and global issues, such as those targeted through the Sustainable Development Goals. Students thereby learn to think and act on issues of real importance – from local to global – mobilising multiple forms of knowledge to make the right decisions, becoming thoughtful and employable citizens who can compete in the global and local labour markets. The focus is on engagement in collaborative and/or peer learning platforms to gain a sense of existing social, political, economic, and ecological complex and dynamic challenges in society. To ingrain the principles of engaged scholarship, the university curricula must unify the learning of knowledge with concrete actions, so that the teaching model is anchored in real life to integrate theory and practice for the development of praxis.

Academically engaged citizenship encourages academics to be exceptional scholars and refers to all the professional work, skills, time, and involvement of academics in professional



and societal bodies rendered for impact. To enable them to pursue initiatives, this may include but are not limited to the following:

- Active participation and leadership in professional academic bodies and editorial boards, knowledge, and community organisations.
- Serving on expert panels, national, regional, or international committees and agencies concerned with one's discipline and/or scholarship.
- Providing expert support and advice to professional, knowledge, or community organisations.
- Advancing the value and impact of knowledge through reports, advocacy, and outreach to peers, partners, and the public (government, civil society, private sector, etc.).
- Communicating one's research and scholarship to the general public.
- Consultancy work for policy development.
- Developing and encouraging the scholarship of engagement.
- Training provided to non-university organisations.

This report on **Engaged Scholarship** aims to emphasise the advancement of knowledge that has a positive impact on society. For this reason, our knowledge production – comprising teaching, learning, research, and innovation – will add to society across various spheres, including social, economic, and environmental. We use the *UN Sustainable Development Goals (SDGs)* as a primary lens for assessing such societal impact. Although not specifically indicated per faculty, Goal 17 (*Partnerships*) forms a foundational context in contributions to achieve the goals. The report also depicts dissemination of research and scholarship through platforms such as webinars, public lectures, media, policy briefs and highlights academics serving on international professional platforms. The information is shared per faculty.

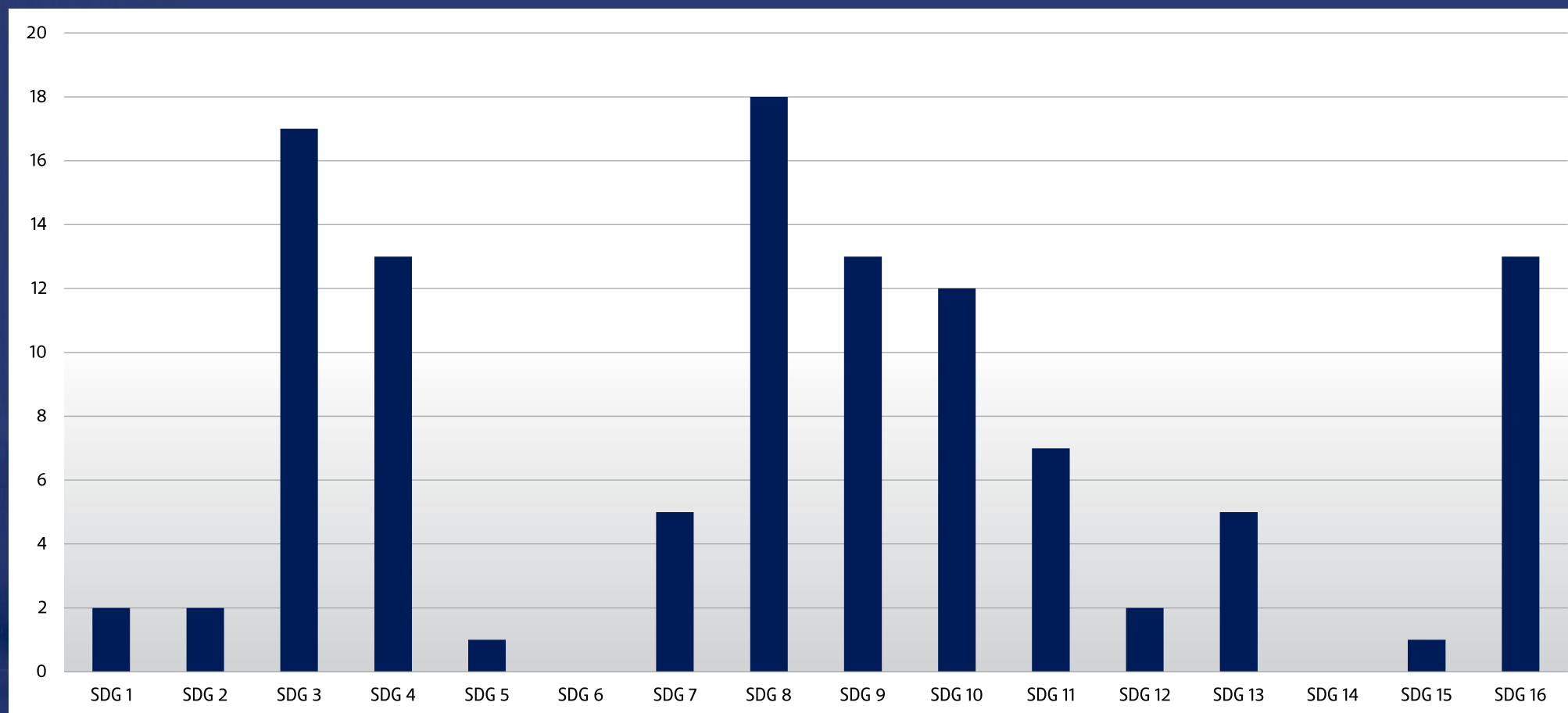
Engaged Research



Faculty of Economic and Management Sciences

Faculty of Economic and Management Sciences

Graph 1 portrays the alignment of citations for academics from the Faculty of Economic and Management Sciences with the 16 SDGs.



Graph 1 Faculty of Economic and Management Sciences – Alignment of citations with SDGs

The SDG with the most aligned citations is SDG 8 (decent work and economic growth), followed in downward progression by SDG 3 (good health and well-being) and SDG 4 (quality education), SDG 9 (industry, innovation, and infrastructure), SDG 16 (peace, justice, and strong institutions) and SDG 10 (reduced inequalities). It thus appears that multi- and transdisciplinary work has been done in contribution to economic, educational, political, and societal impact. The detailed citations are outlined in Table 1.

Table 1: EMS – Citations in alignment with Sustainable Development Goals

Authors	Title	DOI	SDGs
Ahedo, M Hoekstra, J Etchezarreta, A	Socially oriented cooperative housing as alternative to housing speculation. Public policies and societal dynamics in Denmark, the Netherlands and Spain	10.1080/00346764.2021.1917646	10 11
Allman, M Kulesz, P Marais, L Sharp, C	Impact of the mediational intervention for sensitising caregivers on mentalising in orphans and vulnerable children in South Africa	10.1080/15289168.2023.2275230	3
Allman, M Penner, F Hernandez Ortiz, J Marais, L Rani, K Lenka, M Cloete, J Sharp, C	Hope and mental health problems among orphans and vulnerable children in South Africa	10.1080/09540121.2022.2104795	3
Ang, MLE Owen, JR Gibbins, CN Lèbre, É Kemp, D Saputra, MRU Everingham, J-A Lechner, AM	Systematic review of GIS and remote sensing applications for assessing the socioeconomic impacts of mining	10.1177/10704965231190126	16
Ataguba, JE Nwosu, CO Obse, AG	Is socioeconomic inequality in antenatal care coverage widening or reducing between and within socioeconomic groups? A case of 19 countries in sub-Saharan Africa	10.1016/j.ssmph.2023.101402	1 3 10
Azagra-Caro, JM Boni, A	Enlarging the knowledge transfer realm through engagement with research stakeholders: a conversation attempt with action research	10.1080/25729861.2023.2213596	4
Badarai, E Kotze, M Nel, P	Performance of state-owned enterprises in Zimbabwe: a transformational leadership-organisational performance model	10.4102/ sajbm.v54i1.3148	8 9
Ball, JA Bolotnikov, V Ter Horst, S	Interpolation in multivariable de Branges-Rovnyak spaces	10.1007/978-3-031-21460-8_2	7
Boni, A Walker, M Velasco, D	Development in times of conflict: ethical pathways towards peace and justice	10.1080/17449626.2023.2279214	16
Boshoff-Knoetze, A Duminy, L Du Toit, Y	Examining the effect of self-regulation failure on academic achievement in emergency remote teaching and learning versus face-to-face	10.1108/JARHE-08-2021-0305	4
Carreiras, D Cunha, M Sharp, C Castilho, P	The clinical interview for borderline personality disorder for adolescents (CI-BOR-A): development, acceptability and expert panel evaluation	10.1002/pmh.1586	3
Croon, TM Hoekstra, JSCM Elsinga, MG Dalla Longa, F Mulder, P	Beyond headcount statistics: exploring the utility of energy poverty gap indices in policy design	10.1016/j.enpol.2023.113579	1
Dzomonda, O Neneh, BN	How attitude, need for achievement and self-control personality shape entrepreneurial intention in students	10.4102/sajems.v26i1.4927	4
Elkington, R Ngunjiri, FW Burgess, GJ Majola, X Schwella, E De Klerk, N	African leadership: powerful paradigms for the 21st century	10.1108/9781801170451	16

Authors	Title	DOI	SDGs
Fernandez, S Malan, LP Holtzhausen, N Tshiyoyo, MM	To what extent does corruption erode trust? Evidence of reputational spillovers from ten countries in the Southern African Development Community	10.1080/23276665.2023.2184403	16
Gambe, TR Turok, I Visagie, J	The trajectories of urbanisation in Southern Africa: a comparative analysis	10.1016/j.habitatint.2023.102747	11
Groenewald, GJ Ter Horst, S Jaftha, JJ Ran, ACM	A Toeplitz-like operator with rational matrix symbol having poles on the unit circle: Fredholm characteristics	10.1016/j.laa.2023.09.028	9
Hill, RM Busby, D Brown, JL Sumlin, E Fernandez, E Sharp, C	Cultural consensus modelling to identify culturally relevant reasons for and against suicide among black adolescents	10.1111/sltb.13000	1 3 10
Hoekstra, J Gentili, M	Housing policies by young people, not for young people. Experiences from a co-creation project in Amsterdam	10.3389/frsc.2023.1130163	8 10 11 16
Katuka, B Mudzingiri, C Vengesai, E	The effects of non-performing loans on bank stability and economic performance in Zimbabwe	10.55493/5002.v13i6.4794	8 10
Kemp, D Blitz, N	Afterword to special issue	10.1016/j.exis.2023.101260	16
Kemp, D Kochan, K Burton, J	Critical reflections on the Juukan Gorge parliamentary inquiry and prospects for industry change	10.1080/02646811.2022.2156202	16
Kemp, D Owen, JR Márquez, GYH	Research at the frontier: making visible the intersection between indigenous peoples' lands, industrial development, and rights at risk	10.1016/j.oneear.2023.07.011	9
Keser Ozmantar, Z Cin, M Mkwanzani, F	Becoming a teacher: the liminal identities and political agency of refugee teacher	10.1080/19452829.2023.22271	4
Kibona, B	Reconstructing the social responsibilities of African universities towards citizenship education: perspectives from the Ujamaa philosophy of Julius Nyerere	10.1007/s41297-023-00181-3	4
Kibona, B	Reconstructing the social responsibilities of African universities towards citizenship education: perspectives from the Ujamaa philosophy of Julius Nyerere	10.1002/jid.3820	4
Kibona, B	Higher education and employability in Tanzania: students' account	10.1002/jid.3820	4
Kollamparambil, U Oyenubi, A Nwosu, C	Mental distress, COVID19 vaccine distrust and vaccine hesitancy in South Africa: a causal mediation regression analysis	10.1371/journal.pone.0278218	3
Kotze, T Boitumelo, J Magadzu, M Cloete J	Mine closure: mine workers lives after retrenchment. In: S Matebesi, L Marais and V Nel eds. <i>Social aspects of mine closure in South Africa</i>	-	9
Kunjal, D	The impact of COVID-19 on the returns of South African exchange traded funds	-	8



1. Venter A et al. submitted a paper on renewable energy, social disruption and formalising the social licence to operate in South Africa.
2. Magaiza C et al. handed in an article on participatory needs identification for community development in the Afromontane: a case study of mountain communities in the Eastern Free State of South Africa.

Authors	Title	DOI	SDGs
Kunjal, D Naidoo, S Moonsamy, C Govender, T Naidoo, R Ally, E	Investor herd behaviour during the COVID-19 pandemic: evidence from the Johannesburg Stock Exchange	10.24818/mer/2023.06.03	8
Kuprava, A Huth, M	Fast and efficient simulation of the FEBID process with thermal effects	10.3390/nano13050858	9
Lamb-Camarena, S Porrati, F Kuprava, A Wang, Q Urbánek, M Barth, S Makarov, D Huth, M Dobrovolskiy, OV	3D magnonic conduits by direct write nanofabrication	10.3390/nano13131926	9
Lathouras, A Westoby, P	Enlivening popular education in community development: action research with neighbourhood centres and land-care groups in Australia	10.1080/15575330.2023.2225096	4
Mabele, B Marais, L Balta-Ozkan, N Mirzania, P Mbobo, B Van der Watt, P Cloete, J Venter, A	Renewable energy, social disruption and formalising the social licence to operate in South Africa	10.1002/csr.2572	7 8 12
Macklin, MG Thomas, CJ Mudbhatkal, A Brewer, PA Hudson-Edwards, KA Lewin, J Scussolini, P Eilander, D Lechner, A Owen, J Bird, G Kemp, D Mangalaa, KR	Impacts of metal mining on river systems: a global assessment	10.1126/science.adg6704	15
Magaiza, C Marange, T Chamisa, S Lutabingwa, J	Participatory needs identification for community development in the Afromontane: a case study of mountain communities in the Eastern Free State of South Africa	10.3389/frsc.2022.1059312	3

1. Maziriri et al. presented a paper on key drivers stimulating consumer behavior in marketing cereal to Generation Z in South Africa.
2. Mitter et al. submitted a paper on the impact of national culture on management control systems: a systematic review.



Authors	Title	DOI	SDGs
Masavah, VM Van der Merwe, R Van Biljon, J	The role of open government data and information and communication technology in meeting the employment-related information needs of unemployed South African youth	10.1002/isd2.12292	8 9 16
Maziriri, ET Nyagadza, B Mabuyana, B Rukuni, TF Mapuranga, M	Marketing cereal to the generation Z cohort: what are the key drivers that stimulate consumer behavioural intentions in South Africa?	10.1108/YC-10-2022-1625	2
Mboyonga, E	The role of Kenneth Kaunda's humanism in fostering higher education for social responsibility in post-colonial Zambia (1964-1991)	-	4
McMillan, C Van Rooyen, D	Social entrepreneurship as collective and mutually beneficial – cross-sector social partnerships for youth social entrepreneurship, South Africa, in strengthening university entrepreneurial ecosystems in Sub-Saharan Africa	-	8
Miller, ME Nwosu, CO Nyamwanza, AM Jacobs, PT	Assessing psychosocial health impacts of climate adaptation: a critical review	10.1177/10482911231173068	3 13
Mitter, C Kuttner, M Duller, C Sommerauer, P	Does national culture impact management control systems? A systematic literature review	10.1007/s11846-023-00661-w	16
Mkwananzi, F Cin, FM Marovah, T	Transformative youth development through heritage projects: connecting political, creative, and cultural capabilities	10.1080/13527258.2023.2209058	1 16
Ndaguba, E Marais, L	A scientometric analysis of mine closure research	10.1007/s10668-023-03785-x	9

Authors	Title	DOI	SDGs
Martinez-Vargas, C	Practicing ongoing and imperfect ecology of knowledges: reflections from the first Knowledge Democracy Assembly	-	4
Morrison, NB Shambare, R Rukuni, T	Customer loyalty programmes in South Africa: past, present, and future trajectories	10.4018/IJCRMM.325789	9
Mudiriza, G De Lannoy, A	Factors associated with depressive symptoms among young people during the COVID-19 related-lockdown in South Africa: a cross-sectional study	-	3
Nel, GF Du Toit, Y	Stakeholders' engagement in 280 characters: evidence from JSE-listed companies	10.4102/sajems.v26i1.4964	12 16
Nel, E Marais, L Mqotyana, Z	The regional implications of a just transition in the world's most coal-dependent economy: mining towns in Mpumalanga, South Africa	10.3389/frsc.2022.1059312	8
Nel, J Boshoff, C	Unravelling the link between status quo satisfaction and the rejection of digital-only banks	10.1057/s41264-022-00146-z	8 9
Nel, P Kotze, M Badarai, E	Psychometric properties of an adapted organizational effectiveness measure for state-owned enterprises	10.4102/ac.v23i1.1049	8 9
Nwosu, C	Is socioeconomic inequality in antenatal care coverage widening or reducing between and within socioeconomic groups? A case of 19 countries in sub-Saharan Africa	10.1016/j.ssmph.2023.101402	3 10
Nieman, C	Promoting staff mental well-being during burnout periods	-	3
Nwosu, C	Mental distress, COVID-19 vaccine distrust and vaccine hesitancy in South Africa: a causal mediation regression analysis	10.1371/journal.pone.0278218	3
Nwosu, C	Assessing psychosocial health impacts of climate adaptation: a critical review	10.1177/10482911231173068	3
Ntema, J Marais, L Cloete, J Lenka, M	Mine closure in Matjhabeng in the Free State goldfields, South Africa: implications for households	10.1016/j.exis.2023.101257	8
Owen, JR Kemp, D	A return to responsibility: a critique of the single actor strategic model of CSR	10.1016/j.jenvman.2023.118024	8
Owen, JR Kemp, D	Corporate responses to community grievance: voluntarism and pathologies of practice	10.1007/s10551-023-05332-0	16
Owen, JR Kemp, D Lechner, AM Harris, J Zhang, R Lèbre, É	Energy transition minerals and their intersection with land-connected peoples	10.1038/s41893-022-00994-6	13
Owen, JR Kemp, D Lechner, AM Harris, J Zhang, R Lèbre, É	Author correction: energy transition minerals and their intersection with land-connected peoples (<i>Nature Sustainability</i> , (2022), 6, 2, (203-211), 10.1038/s41893-022-00994-6)	10.1038/s41893-022-01057-6	7

Authors	Title	DOI	SDGs
Pienaar, M Marais, L Serekoane, M Marais, K Cloete, J Lenka, M Sharp, C	'Being a mother is not child's play': the capabilities of mothers in a low-resource setting in South Africa	10.1111/hex.13689	3 10
Rukuni, TF Maziriri, ET Chuchu, T	Coronavirus readiness strategies in the retail sector: a study on consumer behaviour during the pandemic	-	3
Rukuni, TF Maramura, TC Mampa, M	A clean audit and service delivery comparative study of two municipalities in Mpumalanga province in South Africa	10.20525/ijrbs.v11i10.2164	8
Porrati, F Barth, S Gazzadi, GC Frabboni, S Volkov, OM Makarov, D Huth, M	Site-selective chemical vapor deposition on direct-write 3D nanoarchitectures	10.1021/acsnano.2c10968	9
Scheba, A Turok, I	The role of institutions in social housing provision: salutary lessons from the South	10.1080/02673037.2021.1935765	10 11
Scholvin, S Turok, I Visagie, J Revilla Diez, J Breul, M	Beyond offshoring: tradable services and regional markets in the Global South	10.1080/00167223.2023.2214171	8
Sharma, V Loginova, J Zhang, R Kemp, D Shi, G	How do past global experiences of coal phase-out inform China's domestic approach to a just transition?	10.1007/s11625-023-01312-5	11 13
Sheik, A Van Rooyen, D Mazzei, M	Social innovation in South Africa: building inclusive economies?	10.1108/SEJ-07-2021-0060	10
Tabarés, R Boni, A	Maker culture and its potential for STEM education	10.1007/s10798-021-09725-y	4
Tanyanyiwa, VI Marais, L Du Plessis, L	Informal sector counterpower in Harare, Zimbabwe	10.1007/s10708-023-10949-9	16
Turok, I Scheba, A Visagie, J	Rethinking urbanisation and economic development: a synopsis	10.1177/09562478231193829	8 11
Twitty, TD Hitch, AE Marais, L Sales, JM Sharp, C Cloete, J Lenka, M Rani, K Gause, NK Brown, JL	Pregnancy and STI/HIV prevention intervention preferences of South African adolescent girls: findings from a cultural consensus modelling qualitative study	10.1080/13691058.2023.2194357	3 5 10
Van der Nest, M Van Vuuren, G	Commodity prices and the US business cycle	10.3390/jrfm16100462	2 8
Van Dyk, A Van Vuuren, G	Measurement and calibration of regulatory credit risk asset correlations	10.3390/jrfm16090402	10
Van Rooyen, D Nöthling, M	Who takes care of the carer? Turning the lens on the facilitator In: <i>Teaching Digital Storytelling: Inspiring Voices Through Online Narratives</i>	-	4
Van Vuuren, G Van der Lecq, M	Global maximal Sharpe ratios for active portfolios	10.1080/13504851.2022.2091105	8
Visagie, J Turok, I Scheba, A	Social housing and upward mobility in South Africa: An assessment of household outcomes	10.1007/s12132-023-09504-z	10 11



1. Walker, M submitted an article on a capabilitarian approach to transforming undergraduate learning outcomes in South African higher education.
2. Prof Melanie Walker.

Authors	Title	DOI	SDGs
Walker, M	Towards just futures: a capabilitarian approach to transforming undergraduate learning outcomes in South African higher education spaces	10.1080/0305764X.2023.2189227	4
Westoby, P Day, E Hawthorne, F Toon, MFP Oldham, K	A community development story and portrayal of a phenomenological reflective practice in the social field of paediatric palliative care	10.1093/cdj/bsac023	3
Winkler, R Brugger-Hatzl, M Porrtati, F Kuhness, D Mairhofer, T Seewald, LM Kothleitner, G Huth, M Plank, H Barth, S	Pillar growth by focused electron beam-induced deposition using a bimetallic precursor as model system: high-energy fragmentation vs low-energy decomposition	10.3390/nano13212907	9

In addition to citations, the dissemination of research and scholarship through platforms such as webinars, public lectures, media, and policy briefs are outlined in Table 2.

Table 2: EMS – Dissemination of research and scholarship through platforms such as webinars, public lectures, media, policy briefs

Surname	Presentation
Benedict, E	Prospects and roadmap to sustainable small-scale business opportunities for emerging foresters. Presentation at Forest 21: Climate-smart Forestry Entrepreneurs Conference
Benedict, E	Guest speaker at the sixth Annual Free State Provincial Research Colloquium 2023, presenting paper on 'Enhancing graduate employability through entrepreneurship education' at Central University of Technology (CUT) Bloemfontein
Biljohn, MIM	Address on 'A developmental public administration that creates an enabling environment for investment value-adding industries to maximise the benefit of the AfCFTA' at the National Department of Public Service and Administration, Boksburg

Surname	Presentation
Biljohn, MIM	Keynote address on 'Africa Public Service Day' at the Free State Department of Economic, Small Business Development, Tourism and Environmental Affairs, Bloemfontein
Burger, P	South Africa has been grey listed for not stopping money laundering and terrorism funding. What it means
Burger, P	Debt dangers in Africa: how defaults hurt people, and why forgiveness isn't the answer
Du Plessis, A	Keynote address on 'Analysing coalition government formations in South Africa's coalition-led metropolitan municipalities', IEC, Bloemfontein
Fernandes, N	Branding Masterclass Workshop at the Academy for Women Entrepreneurs (AWE LESA), Lesotho, Eswatini, and South Africa
Neneh, BN	Keynote speaker/address: 'The resilient entrepreneur: how to become stronger in the face of failure'. Presentation at Graduation of the Goldfields TVET College Centre of Entrepreneurship and the EBL Institute of Business and Technology
Neneh, BN	Keynote speaker at Goldfields TVET College graduation ceremony in Welkom
Prinsloo, F	Presented Entrepreneurial training workshop on behalf of the National Youth Development Agency (NYDA)
Sereeco, W	Guest speaker at the sixth Annual Free State Provincial Research Colloquium 2023, presenting paper on 'Skills development as a tool for social and economic development' at Central University of Technology (CUT) Bloemfontein
Van Niekerk, A	Popular opinion piece, Agoa talks: 'SA needs to carefully manage relations with the US and China' for Moneyweb
Van Noordwyk, A	Workshop for ABSA ReadytoWork Programme 2023 at the University of the Free State
Veitch, J	Hosted a Business Acumen Day for its students from second-year to postgraduate level
Veitch, J	Presented a SAICA Winter Camp in partnership with the Department of Education at the University of the Free State
Fubu, T	Prof Wiseman Nkuhlu Annual Lecture: Association for the Advancement of Black Accountants of Southern Africa (ABASA), lecture title: 'The value of accountants reimagined'

The academics who serve on international platforms are outlined in Table 3.

Table 3: EMS – Academics serving on international professional platforms

Surname	International professional platform
Walker, M.	University of Antwerp, Belgium. External international reviewer for the master's degree programmes in development studies
Walker, M.	Technical University of Valencia, Spain. Visiting Fellow, invited guest lecturer
Walker, M.	University of Nottingham, United Kingdom. Keynote address to postgraduate research conference at the University of Nottingham, meetings with early career researchers at the university
Walker, M.	SARChI Chair in Higher Education and Human Development 2023-2027



Faculty of Education

Faculty of Education

Graph 2 portrays the alignment of citations for academics from the Faculty of Education with the 16 SDGs.

4

QUALITY
EDUCATION

16

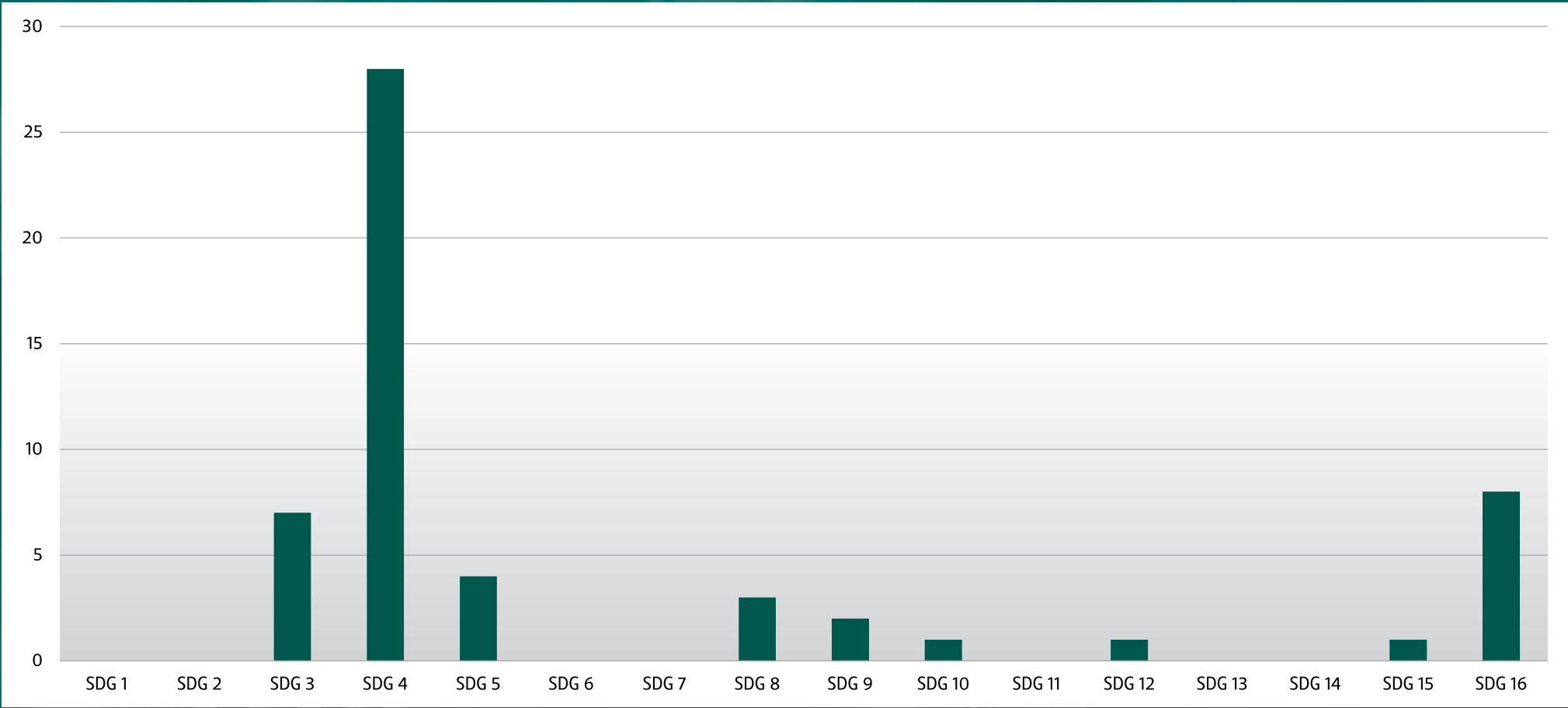
PEACE, JUSTICE
AND STRONG
INSTITUTIONS

3

GOOD HEALTH
AND WELL-BEING

5

GENDER
EQUALITY



Graph 2 Faculty of Education – Alignment of citations with SDGs

The SDG with the most aligned citations is SDG 4 (quality education), followed in downward progression by SDG16 (peace, justice, and strong institutions), SDG 3 (good health and well-being), and SDG 5 (gender equality). It thus appears that multi- and transdisciplinary work has been done in contribution to educational, political, and societal impact. The detailed citations are outlined in Table 4.



1. Ede et al. submitted an article on work value perceptions and ethical practices among primary school teachers, demographics, intervention, and impact.
2. Dube and Campbell presented on borderless curriculum in the post-human era, reflecting on US and South African teacher practices.

Table 4: EDU – Citations in alignment with Sustainable Development Goals

Authors	Title	DOI	SDGs
Dube, B	Violence and corruption of megachurch leaders: unravelling silent coloniality in Zimbabwe	10.3390/rel14091209	16
Dube, B Campbell, E	Borderless curriculum in the post-human era: reflections on the United States of America and South African initial teacher pedagogical practices	10.46303/jcsr.2023.4	4 8 16
Dube, B Mahlomaholo, S Setlaltoac, W Tarmand, B	Creating sustainable learning environments in the era of the posthuman: towards borderless curriculum	10.46303/jcsr.2023.1	4
Dube, B Moyo, N	A decolonial reading of the history curriculum: towards undoing historicide for curricular justice for the Zimbabwean learner	10.1080/02671522.2022.2065521	4 16
Ede, MO Okeke, CI	Prevalence of suicidal behavioural experiences in the university: implications for childhood development	10.2174/18749445-V16-E230418-2022-HT21-4315-1	3 4
Ede, MO Okeke, CI Adene, F Areji, AC	Perceptions of work value and ethical practices among primary schoolteachers, demographics, intervention, and impact	10.1177/00332941211043453	4
Ede, MO Okeke, CI Igbo, JN Aye, E	Testing the efficacy of group cognitive-behavioural therapy for pathological internet use among undergraduates in Nigeria	10.47626/2237-6089-2021-0348	3 4

Authors	Title	DOI	SDGs
Ede, MO Okeke, CI Obiweluzo, PE	Intervention for treating depression in parents of children with intellectual disability of Down's syndrome: a sample of Nigerian parents	10.1007/s10942-022-00471-1	3 4
Ede, MO Okeke, CI Onah, SO	A randomised controlled trial of a cognitive behaviourally informed intervention for changing violent sexual attitudes among adult sexual offenders in prison	10.1002/cbm.2269	5 16
Egara, FO Mosimege, M	Effect of flipped classroom learning approach on mathematics achievement and interest among secondary school students	10.1007/s10639-023-12145-1	4
Egara, FO Mosimege, MD	Gender difference in secondary school students' retention in algebra: a computer simulation approach	10.29333/ejmste/13280	4 5
Egenti, NT Ede, MO Okeke, CI Oneli, JO	Intervention for modifying risk level of hypersexual behaviours among male parents with sexual offending history	10.1097/MD.00000000000033401	5 16
Filita, N Jita, T	The use of information and communication technology in the teaching of Sesotho as a home language	10.17159/2520-9868/i91a01	4
Gqoli, N Okeke, CIO Ugwuanyi, CS	Practitioners' use of conceptions of mathematical knowledge to enhance early mathematics: a qualitative research approach	10.30935/scimath/12482	4
Ifelunni, CO Ede, MO Okeke, CI	Rational emotive intervention for work-family conflict and female primary school teachers' well-being	10.1007/s12144-022-03704-9	4 16
Koch, R Beyers, C	Teaching comprehensive sexuality education using a praxis co-created with adolescents	10.4102/PHCFM.V15I1.3855	3 4 5
Masengwe, G Dube, B	'Robert's Rules of Order' on religious conflicts in the Church of Christ in Zimbabwe	10.4102/ve.v44i1.2666	16
Masengwe, G Dube, B	Retrospective and prospective approaches to Christian education in Church of Christ schools in Zimbabwe	10.3390/rel14091120	4 16
Nel, M Hay, J Bekker, T Beyers, C Pylman, N Alexander, G Matoti, S	Exploring the perceptions of lecturers and final-year students about the infusion of inclusion in initial teacher education programmes in South Africa	10.3389/feduc.2023.1024054	4 8 10 12
Nnamani, O Hadebe-Ndlovu, BN Okeke, CI Ede, MO	Effect of jigsaw and team pair-solo cooperative learning strategies on interest in basic science of primary school children with visual impairment	10.1002/pits.22866	4
Ogakwu, NV Ede, MO Manafa, IF Okeke, CI Onah, SO	Quality of work-life and stress management in a rural sample of primary school teachers: an intervention study	10.1007/s10942-022-00494-8	4
Okeke, CC Okeke, CIO Ugwuanyi, CS	Demographic determinants of work deviant behaviours of rural community-based primary school teachers: a structural equation modelling approach	10.1002/jcop.22895	4



1. Jita and Filita delivered a paper on *The use of information and communication technology in the teaching of Sesotho as a home language*.
2. Hay et al. submitted a paper on *exploring the perceptions of lecturers and final-year students about the infusion of inclusion in initial teacher education programmes in South Africa*.
3. Jita et al presented an article on, *'The spirit is willing, but the content is weak?'*.

Authors	Title	DOI	SDGs
Omeke, FC Okeke, CI Ede, MO Oneli, JO	Coaching impact on work-family conflict and occupational stress among educational administrators in primary schools	10.1097/MD.00000000000033185	3 4 8
Onyemaechi Ede, M Okeke, CI Oneli, JO	Raising the self-esteem and reducing irrational beliefs of schoolchildren: the moderating and main effect study	10.1097/MD.00000000000034168	3
Phiri, M Jita, LC Jita, T	'The spirit is willing, but the content is weak?' Enacting the mother tongue policy in teaching information and communication technology to preschoolers in Zimbabwe	10.1080/09500782.2023.2229795	4
Ramantsi, BML Rasengane, TA Jita, T	Foundation Phase teachers' knowledge on common visual problems affecting children	10.4102/sajce.v13i1.1106	3 4
Sintema, EJ Mosimege, M	High school students' beliefs about mathematical problem solving: a cluster analysis	-	4
Sintema, EJ Mosimege, MD Heris, A	Exploring mathematical pedagogical content knowledge of pre-service teachers: pre-service teachers' M-PCK	10.34024/prometeica.2023.27.15318	4
Stott, AE	The efficacy of instruction in application of mole ratios and submicro- and macroscopic equivalent forms of the mole within the unit factor method	10.1039/d2rp00245k	4 9
Stott, AE	Epistemological lessons from inconsistencies in teachers' errors related to use of the mole ratio in stoichiometry calculations: a cue for professional development	10.1021/acs.jchemed.2c01252	4 9

1. *Stott and Duvenhage presented on high-achieving South African learners from poverty responding to an extracurricular math-guided problem-based learning programme.*
2. *Dr Angela Stott.*



Authors	Title	DOI	SDGs
Stott, AE Duvenhage, M	The response of higher-achieving South African learners from poverty to an extracurricular mathematics-guided problem-based learning programme	10.1080/18117295.2023.2275857	1 4
Tlali, M	Towards developing a science-language learning programme for the equality of sustainable learning opportunities for young children	10.17159/2221-4070/2023/v12i1a4	4
Tsakeni, M	Primary preservice science teachers' perceptions of practical work in remote learning environments	10.46303/jcsr.2023.5	4

The dissemination of research and scholarship through platforms such as webinars, public lectures, media, and policy briefs in the Faculty of Education are outlined in Table 5.

Table 5: EDU – Dissemination of research and scholarship through platforms such as webinars, public lectures, media, policy briefs

Name and Surname	Presentation
Malete, E – Keynote address	Dr TK Mopeli Memorial lecture on 28 September 2023.

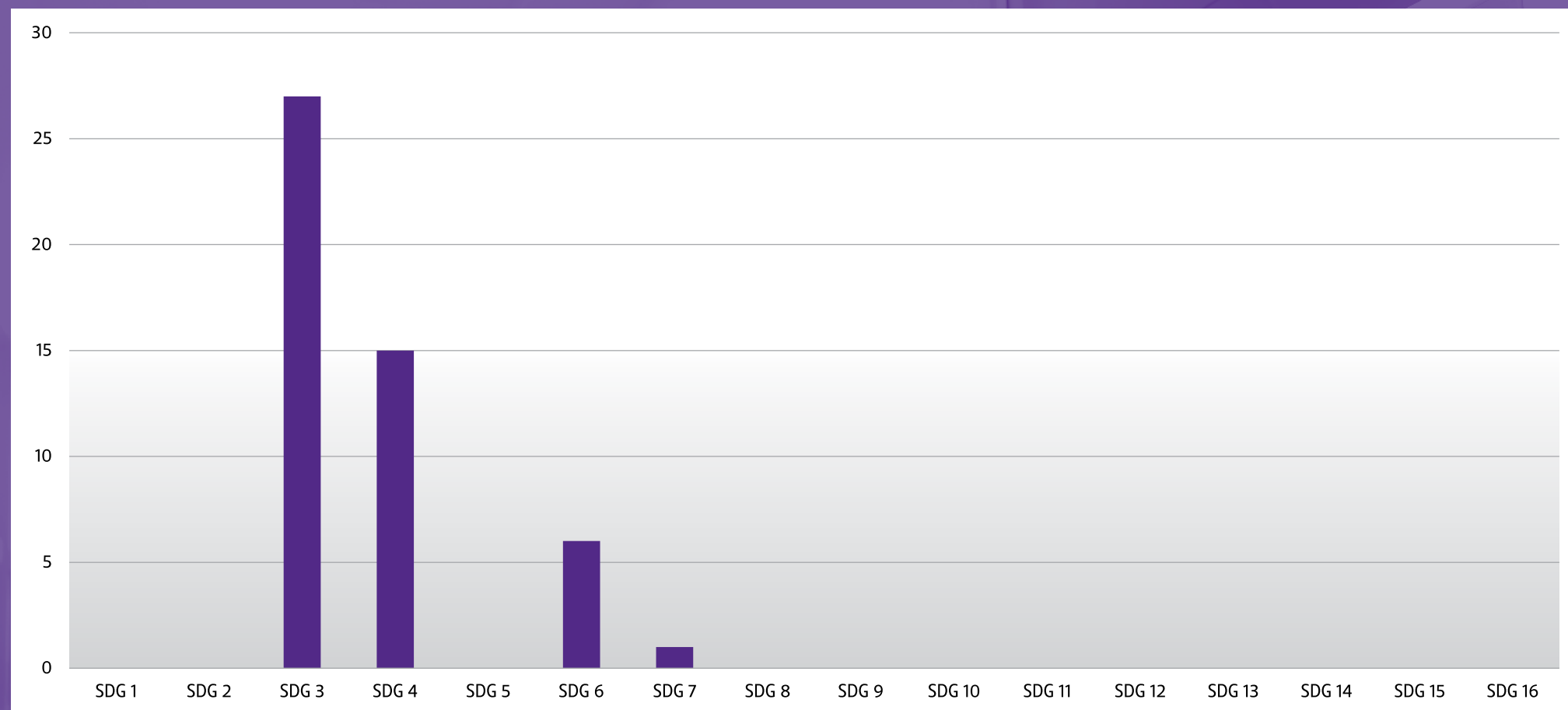
No academics from the Faculty of Education were involved in international professional platforms in 2023.



Faculty of Health Sciences

Faculty of Health Sciences

Graph 3 portrays the alignment of citations for academics from the Faculty of Health Sciences with the 16 SDGs.



Graph 3 Faculty of Health Sciences – Alignment of citations with SDGs

In the FoH, the SDG with the most aligned citations is SDG 3 (good health and well-being), followed in downward progression by SDG4 (quality education), SDG6 (peace, justice, and strong institutions), and SDG 7 (affordable and clean energy). It thus appears that multi- and transdisciplinary work has been done in contribution to health, educational, political, and environmental impact. The detailed citations are outlined in Table 6.

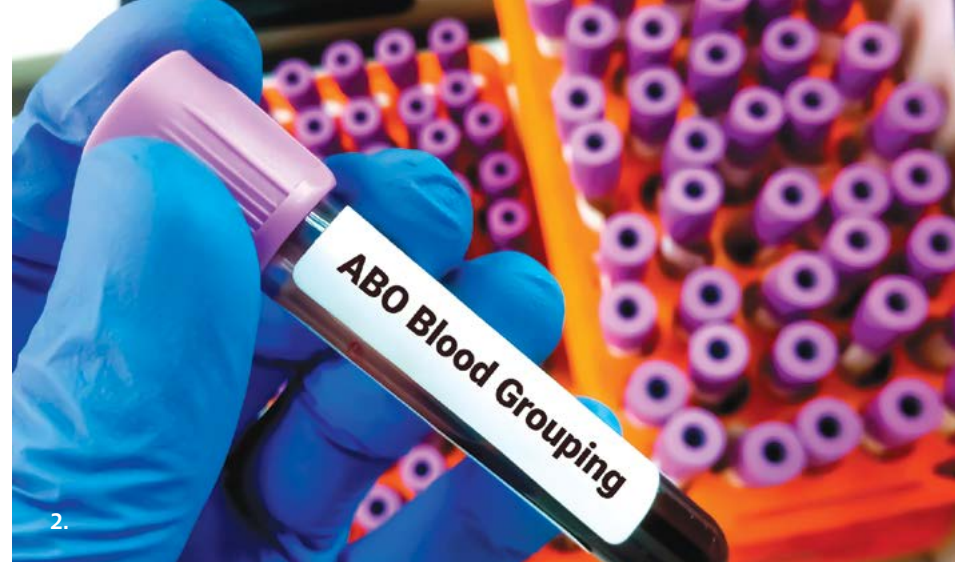


1. Bredenkamp et al. handed in an article on higher education students' motivation to transfer learning: a scoping review.
2. Botha et al. presented a paper on simulating infection prevention and control through virtual reality: a vehicle for equity, diversity, and inclusivity in Africa.

Table 6: FoH – Citations in alignment with Sustainable Development Goals

Author	Title	DOI	SDGs
Botha, BS Hugo-Van Dyk, L Nyoni, CN	Simulating infection prevention and control through virtual reality: a vehicle for equity, diversity, and inclusivity in Africa	10.3389/feduc.2023.1214321	3 4
Bredenkamp, D Botma, Y Nyoni, CN	Higher education students' motivation to transfer learning: a scoping review	10.1108/HESWBL-03-2022-0057	4
Chipamaunga, S Nyoni, CN Kagawa, MN Wessels, Q Kafumukache, E Gwini, R Kandawasvika, G Katowa-Mukwato, P Masanganise, R Nyamakura, R Nyawata, I Pretorius, L Dithole, K Marimo, C Mubuuke, AG Mbalinda, SN Van der Merwe, LJ Prozesky, D	Response to the impact of COVID-19 by health professions education institutions in Africa: a case study on preparedness for remote learning and teaching	10.1186/s40561-023-00249-7	3 4 7
Evbuomwan, O Engelbrecht, G Driver, C Van Rensburg, BJ Labuschagne, M Horn-Lodewyk, J	The prognostic value of 99mTc-glucosamine imaging in patients with rheumatoid arthritis: a single centre prospective study	10.1097/MNM.0000000000001747	3
Evbuomwan, O Van Rensburg, BJ Engelbrecht, G Driver, CHS Labuschagne, M Sempa, J Horn-Lodewyk, J	The biodistribution and utility of 99mTc-ethylenedicysteine-deoxyglucose (99mTc-glucosamine) in the identification of active disease in patients with rheumatoid arthritis – a single centre prospective study	10.1007/s13139-023-00823-4	3
Hugo-Van Dyk, L Botma, Y Ndhlovu, M Nyoni, CN	A concept analysis on the transfer climate in health sciences education	10.1016/j.heliyon.2023.e14299	4

1. Burt et al delivered the 2023 annual taxonomic update for RNA-directed RNA polymerase-encoding negativesense RNA viruses.
2. Jacobs et al. delivered a paper on the association of ABO and RhD blood groups with the risk of HIV infection.



Author	Title	DOI	SDGs
Ipe, TS Eichbaum, Q El-Ekiaby, M Owusu-Ofori, S Vermeulen, M Mapako, T Tayou Tagny, C Dembele, B Bloch, EM Barnes, LS	Transfusion medicine research in Africa: insights from investigators in the field	10.1111/vox.13407	3
Jacobs, G Van den Berg, K Vermeulen, M Swanevelder, R Custer, B Murphy, EL	Association of ABO and RhD blood groups with the risk of HIV infection	10.1371/journal.pone.0284975	3
Joubert, A Reid, M	Knowledge, skills, and training of community health workers to contribute to interprofessional education: a scoping review	10.1080/13561820.2023.2176472	4
Joubert, A Reid, M	Knowledge, skills, and training community health workers require to contribute to an interprofessional learning initiative	10.1016/j.ijans.2023.100531	4
Keiller, L Nyoni, CN Van Wyk, C	A model for design of online health professions education faculty development courses in sub-Saharan Africa	10.1186/s12909-023-04039-0	4
Kuhn, JH Abe, J Adkins, S Alkhovsky, SV Avšič-Županc, T Ayllón, MA Bahl, J Balkema-Buschmann, A Ballinger, MJ Baranwal, VK Beer, M Beijerman, N Bergeron, É Biedenkopf, N Blair, CD Blasdel, KR Blouin, AG Bradfute, SB Briese, T Brown, PA Buchholz, UJ Buchmeier, MJ Bukreyev, A	Annual (2023) taxonomic update of RNA-directed RNA polymerase-encoding negative-sense RNA viruses (realm Riboviria: kingdom Orthornavirae: phylum Negarnaviricota)	10.1099/jgv.0.001864	3

Author	Title	DOI	SDGs
<p>Burt, F Büttner, C Calisher, CH Cao, M Casas, I Chandran, K Charrel, RN Chaturvedi, KK Chooi, KM Crane, A Bó, ED De la Torre, JC De Souza, WM De Swart, RL Debat, H Dheilly, NM Di Paola, N Di Serio, F Dietzgen, RG Digiaro, M Drexler, JF Duprex, WP Dürrwald, R Easton, AJ Elbeaino, T Ergünay, K Feng, G Firth, AE Fooks, AR Formenty, PBH Freitas-Astúa, J Gago-Zachert, S García, ML García-Sastre, A Garrison, AR Gaskin, TR Gong, W Gonzalez, J-PJ De Bellocq, J Griffiths, A Groschup, MH Günther, I Günther, S Hammond, J Hasegawa, Y Hayashi, K Hepojoki, J Higgins, CM Hongō, S Horie, M Hughes, HR Hume, AJ Hyndman, TH Ikeda, K Jiāng, D Jonson, GB Junglen, S Klempa, B Klingström, J Kondō, H Koonin, EV Krupovic, M Kubota, K Kurath, G Laenen, L Lambert, AJ Lǐ, J Li, J-M Liu, R Lukashovich, IS MacDiarmid, RM Maes, P Marklewitz, M Marshall, SH Marzano, S-YL McCauley, JW Mirazimi, A Mühlberger, E Nabeshima, T Naidu, R Natsuaki, T Navarro, B Navarro, JA Neriya, Y Netesov, SV Neumann, G Nowotny, N Nunes, MRT Ochoa-Corona, FM Okada, T Palacios, G Pallás, V Papa, A Paraskevopoulou, S Parrish, CR Pauvolid-Corrêa, A Pawęska, JT Pérez, DR Pfaff, F Plemper, RK Postler, TS Rabbidge, LO Radoshitzky, SR Ramos-González, PL Rehanek, M Resende, RO Reyes, CA Rodrigues, TCS Romanowski, V Rubbenstroth, D Rubino, L Runstadler, JA Sabanadzovic, S Sadiq, S Salvato, MS Sasaya, T Schwemmle, M Sharpe, SR Shi, M Shimomoto, Y </p>	<p><i>Kuhn et al. presented an annual taxonomic update for RNA-directed RNA polymerase-encoding negative-sense RNA viruses in 2023.</i></p>		



1. Marais et al. presented a paper on caregivers' learning needs in rural South Africa's residential care facilities, highlighting unrealistic expectations.
2. Dr Dominique Goedhals. Goedhals et al delivered a paper on identification of T-cell responses to the non-structural glycoproteins in survivors of Crimean-Congo haemorrhagic fever in South Africa.
3. Nyaga et al handed in an article on the evolution of post-vaccine G8P[4] group A rotavirus strains in Rwanda; notable variance at the neutralisation epitope sites.



Author	Title	DOI	SDGs
Sidharthan, VK Sironi, M Smither, S Song, J-W Spann, KM Spengler, JR Stenglein, MD Takada, A Takeyama, S Tatara, A Tesh, RB Thornburg, NJ Tian, X Tischler, ND Tomitaka, Y Tomonaga, K Tordo, N Tu, C Turina, M Tzanetakis, IE Vaira, AM Van den Hoogen, B. Vanmechelen, B Vasilakis, N Verbeek, M Von Bargen, S Wada, J Wahl, V Walker, PJ Waltzek, TB Whitfield, AE Wolf, YI Xia, H Xylogianni, E Yanagisawa, H Yano, K Ye, G Yuan, Z Zerbini, FM Zhang, G Zhang, S Zhang, Y-Z Zhao, L Økland, AL			
Lange, K Bisiwe, FB Kloppers, JF Janse van Rensburg, WJ	Prevalence of lupus nephritis and the use of serology in a central South African chronic kidney disease patient cohort	10.7196/SAMJ.2023.v113i4.198	3

Author	Title	DOI	SDGs
Maina, PM Pienaar, M Reid, M	Self-management practices for preventing complications of type II diabetes mellitus in low and middle-income countries: a scoping review	10.1016/j.ijnsa.2023.100136	3
Maotoana, MG Burt, FJ Goedhals, D	Identification of T-cell responses to the non-structural glycoproteins in survivors of Crimean-Congo haemorrhagic fever in South Africa	10.1002/jmv.29154	3
Marais, C Van Jaarsveldt, DE Spies, C	Learning needs of caregivers of older persons in residential care facilities in rural South Africa: unveiling unrealistic expectations	10.1016/j.ijans.2023.100601	4
Masava, B Nyoni, CN Botma, Y	Scaffolding in health sciences education programmes: an integrative review	10.1007/s40670-022-01691-x	4
Mofokeng, N Maponga, TG Van Schalkwyk, M Hugo, S Morobadi, MD Vawda, S Badenhorst, L Van Vuuren, C Van Rensburg, C Preiser, W Taljaard, J Wang, S Miller, V Wu, D Tucker, JD Seeley, J Goedhals, D Matthews, PC	Barriers that prevent adults living with HBV infection from participating in clinical research: experience from South Africa	10.1016/j.jve.2023.100317	3
Molise, NA Botma, Y Van Jaarsveldt, D	Cultural barriers and facilitators for transformative nursing curriculum transformation	10.1016/j.ijans.2023.100550	4
Mulu, MM Nyoni, CN	Standards for evaluating the quality of undergraduate nursing e-learning programme in low- and middle-income countries: a modified Delphi study	10.1186/s12912-023-01235-7	4
Mutua, MM Nyoni, CN	Undergraduate e-learning programmes in health professions: an integrative review of evaluation standards in low- and middle-income countries	10.1371/journal.pone.0281586	4
Mwangi, PN Potgieter, R-L Simwaka, J Mpabalwani, EM Mwenda, JM Mogotsi, MT Magagula, N Esona, MD Steele, AD Seheri, ML Nyaga, MM	Genomic analysis of G2P[4] group A rotaviruses in Zambia reveals positive selection in amino acid site 7 of viral protein 3	10.3390/v15020501	3
Mwangi, PN Potgieter, R-L Uwimana, J Mutesa, L Muganga, N Murenzi, D Tusiyege, L Mwenda, JM Mogotsi, MT Rakau, K Esona, MD Steele, AD Seheri, ML Nyaga, MM	The evolution of post-vaccine G8P[4] group A rotavirus strains in Rwanda; notable variance at the neutralisation epitope sites	10.3390/pathogens12050658	3
Nts'upa, M Mpeli, MR Hugo-Van Dyk, L	Factors influencing non-compliance with standards for medical male circumcision in Lesotho	10.1002/nop2.1705	3
Nyoni, CN Van der Merwe, A Botha, BS Fourie, C Botma, Y Labuschagne, MJ Van Wyk, R	Health sciences educator's simulation debriefing practice needs: a mixed methods study	10.4103/jehp.jehp_1011_22	4

1. Shokane et al. presented a paper on preparing for family-integrated neonatal care implementation in a Limpopo district hospital.
2. Prithvi Raj et al. contributed an article about blood banking in South Africa.
3. Van der Merwe et al published on pathology-supported genetic testing for breast cancer pharmacodiagnosics, family counselling, lifestyle adjustments, and medication changes.



Author	Title	DOI	SDGs
Ogunbayo, AE Mogotsi, MT Sondlane, H Sabiu, S Nyaga, MM	Metagenomics characterisation of respiratory viral RNA pathogens in children under five years with severe acute respiratory infection in the Free State, South Africa	10.1002/jmv.28753	3
Okunola, AO Baatjes, KJ Zemlin, AE Torrorey-Sawe, R Conradie, M Kidd, M Erasmus, RT Van der Merwe, NC Kotze, MJ	Pathology-supported genetic testing for the application of breast cancer pharmacodiagnosics: family counselling, lifestyle adjustments and change of medication	10.1080/14737159.2023.2203815	3
Prithvi Raj, S Vermeulen, M Swanevelder, R Van den Berg, K Bellairs, GRM	Blood banking in South Africa	10.1016/j.transci.2023.103794	3
Shalev, D Robbins-Welty, G Ekwebelem, M Moxley, J Riffin, C Reid, MC Kozlov, E	Mental health integration and delivery in the hospice and palliative medicine setting: a national survey of clinicians	10.1016/j.jpainsymman.2023.09.025	3
Shawa, M Masava, B Mutimbe, P Nyoni, T Mokhele, K Shale, M Mukurunge, E Nyoni, C	Fidelity of implementing a competency-based nursing programme during the COVID-19 pandemic: a case study	10.1002/nop2.1677	4
Shokane, MA Mogale, RS Maree, C	Preparing for implementation of family-integrated neonatal care by healthcare providers in a district hospital of Limpopo province	10.1016/j.ijans.2023.100575	3

Author	Title	DOI	SDGs
Simo, FBN Burt, FJ Makoah, NA	Chikungunya virus diagnosis: a review of current antigen detection methods	10.3390/tropicalmed8070365	3
Stander, C Van der Merwe, A Nel, M	Chronic ankle instability and associated self-reported function in South African professional ballet dancers	10.1177/1089313X231176607	3
Steegeen, K Van Zyl, GU Claassen, M Khan, A Pillay, M Govender, S Bester, PA Van Straaten, JM Kana, V Cutler, E Kalimashe, MN Lebelo, RL Moloi, MBH Hans, L	Advancing HIV drug resistance technologies and strategies: insights from South Africa's experience and future directions for resource-limited settings	10.3390/diagnostics13132209	3
Swinfen, D Labuschagne, M Joubert, G	Disclosing medical errors: how do we prepare our students?	10.1186/s12909-023-04125-3	3 4
Van der Merwe, A Barnes, R Nel, M	Becoming comfortable with the uncomfortable: the tale of adaptability	10.4102/sajp.v79i1.1889	3
Van der Westhuizen, CG Burt, FJ Van Heerden, N Van Zyl, W Anthonissen, T Musoke, J	Prevalence and occupational exposure to zoonotic diseases in high-risk populations in the Free State province, South Africa	10.3389/fmicb.2023.1196044	3
Vermeulen, M Sykes, W Van den Berg, K Cable, R Coleman, C Glatt, T Grebe, E Mhlanga, L Swanevelder, R Welte, A	P-PH-8 The evolution and interpretation of seroprevalence of SARS-CoV-2 antibodies among blood donors from the Beta to Omicron variant driven waves	10.1111/trf.313_17554	3
Viljoen, N Burt, F Weyer, J	Coding-complete genome of human alphaherpesvirus 1 isolated from a case of fulminant hepatitis	10.1128/MRA.00355-23	3

The dissemination of research and scholarship through platforms such as webinars, public lectures, media, and policy briefs in the Faculty of Health Sciences are outlined in Table 7.

Table 7: FoH – Dissemination of research and scholarship through platforms such as webinars, public lectures, media, policy briefs

Media Platform	Statistics	Duration	
News reports	4,9%	November 2022	October 2023
Social media	4 623 mentions (89,8%)	November 2022	October 2023
Policy briefs/documents	60 policy documents	November 2022	October 2023
Patents	8	November 2022	October 2023

Table 8 outlines the academics from the FoH who served on international platforms in 2023.

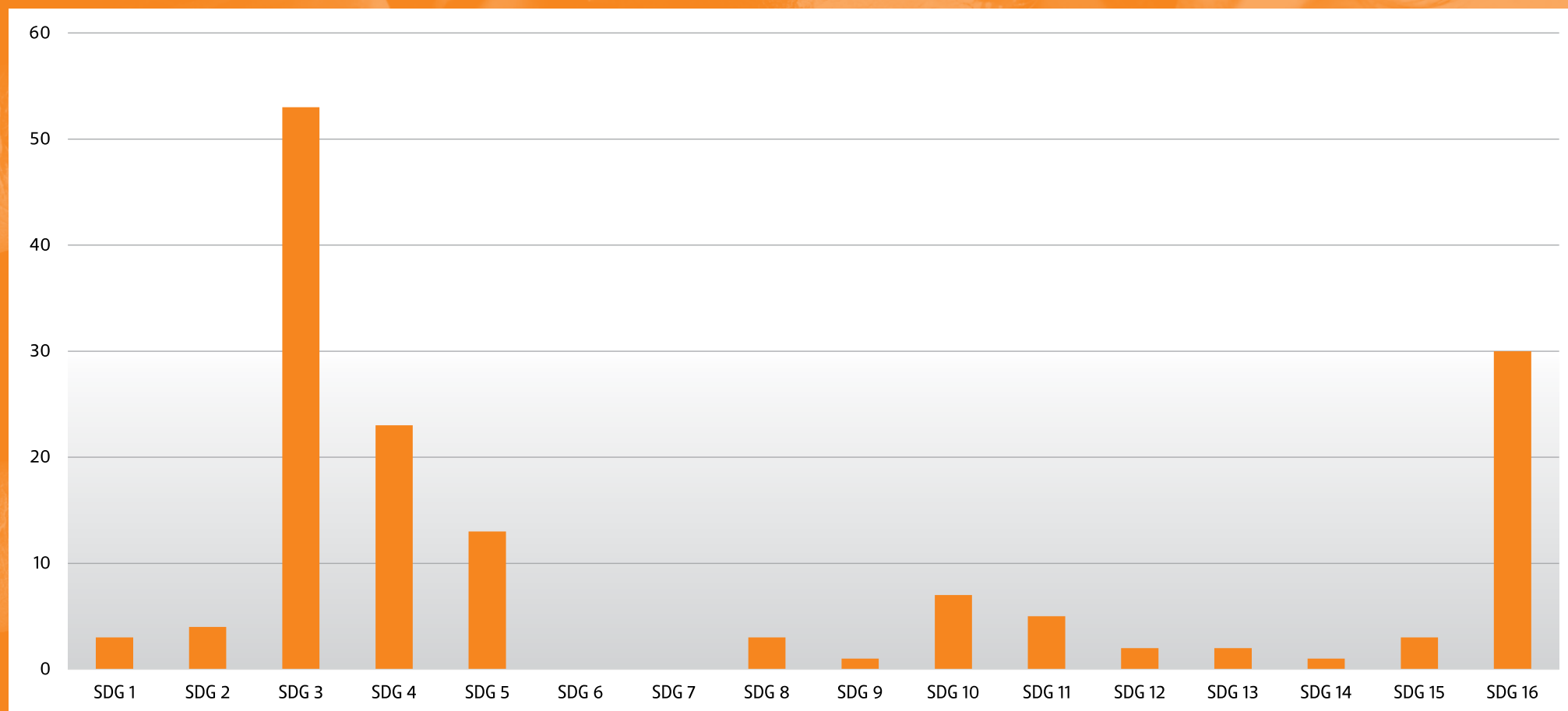
Table 8: FoH – Academics serving on international professional platforms

Name and Surname	International professional platforms
Krishnan, A	Member of Bioeconomy Youth Ambassador (BYA) Regional Bioeconomy Team
Krishnan, A	International Advisory Council on Global Bioeconomy (IACGB)
Krishnan, A	Editorial board member: Frontiers: publisher
Joubert, J	Editorial Committee of the Africa Society for Blood Transfusion (AfsBT)
Grewal, R	Editorial board of the following journal: <i>Medicine and Pharmacy Reports</i>
Grewal, R	Special guest editor for the following journal: <i>Frontiers in Medicine</i>
Salau, V	Topic coordinator for <i>Frontiers in Pharmacology</i> –Therapeutic potential of natural products in oxidative and metabolic diseases
Van Jaarsveldt, D	Sigma Theta Tau International Honor Society of Nursing (Sigma)
Van Jaarsveldt, D	Action Learning, Action Research Association (ALARA)
Gebremariam, FA	Member of the American Chemical Society (ACS membership number=32719440)
Gebremariam, FA	Member of the Ethiopian Pharmaceutical Association
Gebremariam, FA	Member of the Pharmaceutical Advisory Board, Ethiopian Food and Drug Administration, Ministry of Health, Ethiopia
Walsh, C	Nominating committee for the Council of the International Union of Nutritional Sciences (IUNS)
Maruma, F	Skin of Colour Society (SOCS), United States of America
Tsoka-Gwegweni, J	Serves on the Advisory Board of Bioethics Education International, New York, USA
Tsoka-Gwegweni, J	Member of the TDR Global Network
Tsoka-Gwegweni, J	Member of the Organisation for Women in Science for the Developing World (OWSD) – an international organisation based at the offices of The World Academy of Sciences (TWAS), in Trieste, Italy. It is a programme unit of UNESCO.
Sekhoacha, M	Represents South Africa on the African Vaccine Regulatory Forum (AVAREF), a network of African national regulatory authorities established by the World Health Organisation.
Matsabisa, MG	World Health Organisation chairperson on Traditional Medicine Response to COVID-19, UN Narcotics, ILAE

Faculty of The Humanities

Faculty of The Humanities

Graph 4 portrays the alignment of citations for academics from the Faculty of The Humanities with the 16 SDGs.



Graph 4 Faculty of The Humanities - Alignment of citations with SDGs

The SDG with the most aligned citations is SDG 3 (good health and well-being), followed in downward progression by SDG16 (peace, justice, and strong institutions), SDG 4 (quality education), and SDG 5 (gender equality). It thus appears that multi- and transdisciplinary work has been done in contribution to social, educational, and political impact. The detailed citations are outlined in Table 9.



1. Many citations in the faculty aligns with SDG 4 (quality education).
2. Bekaert and Coegnarts submitted a paper on using a Peircean framework to analyse subjectivity in film, proposing a nine-field ocularisation matrix.

Table 9: HUM – Citations in alignment with Sustainable Development Goals

Authors	Title	DOI	SDGs
Andrason, A Phiri, A	Talking to animals in a moribund language pragma-semantics, phonetics, and morphology of conative animal calls in Tjwao	10.1075/lv.22008.and	15
Antonelli, V D'Alessio, R Walker, SP	Operationalising expulsion. Jewish accountants in Fascist Italy, 1938-1943	10.1016/j.cpa.2022.102462	10
Wills, J Rocha, J Gayà-Vidal, M Phiri, A	Oral microbiome homogeneity across diverse human groups from Southern Africa: first results from Southwestern Angola and Zimbabwe	10.1186/s12866-023-02970-2	3
Bekaert, M Coëgnarts, M	A Peircean framework for analysing subjectivity in film: a nine-field ocularisation matrix	10.1515/sem-2022-0080	9
Beukes, J	The current four volumes of Michel Foucault's <i>Histoire de la sexualité</i> : a review of the state of research, 2022	10.38140/aa.v55i1.6493	16
Bogaerts, A Claes, L Raymaekers, K Buelens, T Bastiaens, T Luyckx, K	Trajectories of adaptive and disturbed identity dimensions in adolescence: developmental associations with self-esteem, resilience, symptoms of depression, and borderline personality disorder features	10.3389/fpsyt.2023.1125812	3
Bogaerts, A Luyckx, K Bastiaens, T leuwaegen, E Berens, A Claes, L	The self-concept and identity measure in patients with personality disorders: a psychometric evaluation and associations with identity processes, core domains of self-functioning, and personality disorder symptoms	10.1177/10731911221140313	3

1. Botha et al. submitted an article about the utility of extended HPV genotyping as the primary cervical screen in an unscreened population with a high HIV co-infection rate.
2. Byrne and Lake submitted a paper on queer villainy in Carmen Maria Machado's "In the Dream House" as testimony to lesbian abuse and love.



1.

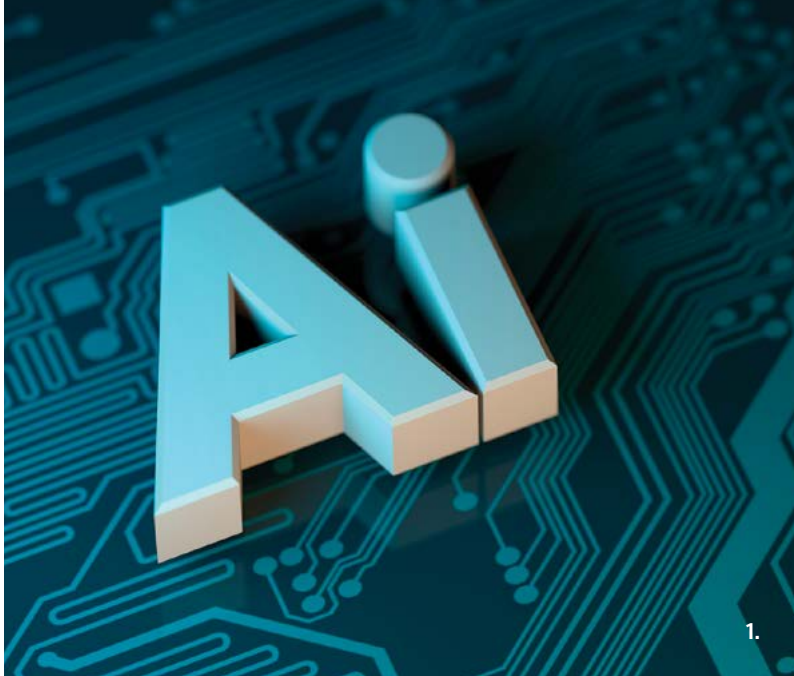


2.

Authors	Title	DOI	SDGs
Botha, MH Van der Merwe, FH Snyman, LC Dreyer, GJ Visser, C Dreyer, G	Utility of extended HPV genotyping as primary cervical screen in an unscreened population with high HIV co-infection rate	10.1097/LGT.0000000000000743	3
Buelens, T Luyckx, K Bogaerts, A Raymaekers, K Claes, L	Longitudinal development of non-suicidal self-injury disorder in adolescence: prospective prediction of stability and change by identity development, depression, trauma, and resilience	10.1016/j.jad.2023.08.134	3
Byrne, DC Lake, N	'Queer villainy': Carmen Maria Machado's <i>In the dream house</i> as testimony to lesbian abuse and love	10.20897/femenc/13555	5 16
Cannon, C Bonnell, J Padilla, M Sulca, D	Along the energy justice continuum: an examination of energy disposal through the lens of feminist community-based participatory action research	10.1016/j.erss.2023.102948	3 5 11 12
Cannon, C Chu, E Natekal, A Waaland, G	Correction to: translating and embedding equity thinking into climate adaptation: an analysis of US cities (<i>Regional Environmental Change</i> , (2023), 23, 1, (30), 10.1007/s10113-023-02073-8)	10.1007/s10113-023-02073-8	10 11
Cannon, CE McInturff, A Alagona, P Pellow, D	Wild urban injustice: a critical POET model to advance environmental justice	10.1089/env.2022.0022	16
Cannon, CEB	Improving policy and treatment interventions for sexual and gender minority perpetrators of intimate partner violence to reduce adverse health outcomes	10.1089/lgbt.2023.0011	5 16

Authors	Title	DOI	SDGs
Cannon, CEB Ferreira, R Buttell, F	A disaster's disparate impacts: analysing perceived stress and personal resilience across gender and race	10.1111/disa.12558	5
Cannon, CEB Ferreira, R Buttell, F Anderson, C	Sociodemographic predictors of depression in US rural communities during COVID-19: implications for improving mental healthcare access to increase disaster preparedness	10.1017/dmp.2022.203	1 3 10 11
Cannon, CEB Ferreira, R Buttell, F O'Connor, A	Intimate partner violence survivorship, posttraumatic stress disorder and disaster: implications for future disasters	10.1177/10778012231176205	3 5 16
Cannon, CEB Ferreira, R Buttell, F O'Connor, A	Surviving intimate partner violence and disaster	10.1108/JACPR-03-2022-0702	5 16
Cannon, CEB Gotham, KF Lauve-Moon, K Powers, B	Assessing resident perceptions of physical disorder on perceptions of crime	10.3390/socsci12020077	3 16
Carstens, V	On the size and category of Bantu nominal expressions	10.4324/9781003254188-3	11
Cash, H Meyer, TK Rizvi, ZH	The role of pulmonary function testing prior to partial laryngeal surgery	10.1002/lary.30671	3
Cawood, H-M Amiradakis, MJ	Intellectual decolonisation and the danger of epistemic closure: the need for a critical decolonial theory	10.1080/02533952.2023.2267772	4
Chemonges, M Herselman, L Pretorius, ZA Rouse, MN Marè, A Boshoff, WHP	Mapping and validation of all-stage resistance to stem rust in four South African winter wheat cultivars	10.1007/s10681-022-03143-4	2
Chham, S Van Olmen, J Van Damme, W Chhim, S Buffel, V Wouters, E Ir, P	Scaling-up integrated type-2 diabetes and hypertension care in Cambodia: what are the barriers to health system performance?	10.3389/fpubh.2023.1136520	1 3
Choi, M-K Jordan, PJ Troth, AC	Workplace interruptions and emotional regulation	10.1108/S1746-979120220000018007	3 8
Claes, L Vankerckhoven, L Smits, D Kiekens, G Robillard, CL Stukken, L Luyckx, K	Psychometric properties of the Dutch version of the Eating Competence Satter Inventory (ecSI 2.0TM) in community adolescents	10.3390/nu15214531	3
Coetzee, B Loades, M Human, S Gericke, H Laning, G Kidd, M Stallard, P	Four steps to my future (4STMF): acceptability, feasibility and exploratory outcomes of a universal school-based mental health and well-being programme, delivered to young adolescents in South Africa	10.1111/camh.12660	3 4
Costley, T Kula, N Marten, L	Translanguaging spaces and multilingual public writing in Zambia: tracing change in the linguistic landscape of Ndola on the Copperbelt	10.1080/01434632.2022.2086985	4
Crocetti, D Berry, A Monroe, S	Navigating the complexities of adult healthcare for individuals with variations of sex characteristics: from paediatric emergencies to a sense of abandonment	10.1080/13691058.2023.2208194	3 5
Cronje, M Peacock, R	A comparative study of recidivism factors associated with different offense categories in South Africa	10.1080/15377938.2023.2182393	16

Authors	Title	DOI	SDGs
Danhieux, K Buffel, V Remmen, R Wouters, E van Olmen, J	Scale-up of a chronic care model-based programme for type 2 diabetes in Belgium: a mixed-methods study	10.1186/s12913-023-09115-1	3
Daniel, A Melber, H Stoll, F	African middle classness, politics and protest: on the context of this issue	10.1080/02589001.2023.2199248	16
De Bruyn, S Wouters, E Ponnet, K Tholen, R Van Hal, G	Subtypes of prescription stimulant misuse among students: a nuanced story	10.1080/03075079.2023.2215272	3 4
De Lise, F Luyckx, K Crocetti, E	Identity matters for well-being: the longitudinal associations between identity processes and well-being in adolescents with different cultural backgrounds	10.1007/s10964-023-01901-8	3
Delpont, M Mulder, D	Me, myself, I: exploring radio personalities' display of identity on social media	10.7146/mk.v38i73.132344	3
Du Plessis, EC	The preparedness of student teachers in open and distance learning environments for the classroom	10.3390/educsci13090934	4
du Plessis, R Breshears, D	'Backstage' service learning: using interdisciplinary collaboration to provide service-learning experiences to large and/or underfunded communication courses	10.1080/17404622.2023.2252911	4
Duba, SCM Jordaan, J	Coping, perceived social support, stress, and age as predictors of correctional adjustment among South African incarcerated female offenders	10.1080/1068316X.2023.2201502	3 5
Eggermont, K Raymaekers, K Claes, L Buelens, T Bogaerts, A Luyckx, K	Impairment in personality functioning throughout adolescence and co-development with personality traits, emotion regulation strategies, and psychopathology	10.1016/j.jrp.2023.104380	3
Ekoh, PC Ejimkaraonye, C Agbawodikeizu, PU Chukwu, NE Okolie, TJ Ugwu, EO Otti, CG Tanyi, PL	Exclusion within exclusion: the experiences of internally displaced older adults in Lugbe camp, Abuja	10.1016/j.jaging.2023.101160	1 4 8 16
Ferreira, R Cannon, CEB Buttell, F Davidson, T	Explaining disaster and pandemic preparedness at the nexus of personal resilience and social vulnerability: an exploratory study	10.1017/dmp.2023.78	3 13
Ferreira, RJ Buttell, F	A Global South perspective: the intersection of COVID-19 and intimate partner violence	10.2105/AJPH.2022.307144	3 5 16
Fouché, PJP Labuscagne, W Naidoo, P	Zenzile Miriam Makeba: a psychobiography of 'Mama Africa' from an integrated African psychology perspective	10.1007/978-3-031-28827-2_4	3
Geuens, S Leyen, K Raymaekers, K Priken, S Willen, J Goemans, N De Waele, L Lemiere, J Luyckx, K	Illness perceptions and illness identity in adolescents and emerging adults with neuromuscular disorders	10.1177/13591045221125631	3



1. Griffin et al. submitted an article on AI and Swedish heritage organisations: challenges and opportunities.
2. Naudé and Greyling published on the fitspiration effect: Fitness identity of emerging adult females on social media.

Authors	Title	DOI	SDGs
Greco, A Adorni, R De Matteis, C D'Addario, M Fattirolli, F Franzelli, C Giannattasio, C Luyckx, K Steca, P	Latent change models of lifestyle in acute coronary syndrome patients: are lifestyle changes associated with resilience changes?	10.1177/20551029231167836	3
Green, SL Du Plessis, EC	Project-based learning to promote learner autonomy in training hospitality education at a technical and vocational education and training college	10.26803/ijlter.22.7.8	4
Greyling, C Naudé, L	The fitspiration effect: fitness identity of emerging adult females on social media	10.36386/sajrsper.v45i2.96	3
Griffin, G	Winsome Pinnock (b.1961)	10.4324/9781003006923-88	4
Griffin, G Wennerström, E Foka, A	AI and Swedish heritage organisations: challenges and opportunities	10.1007/s00146-023-01689-y	11
Grobbelaar, A	Media and terrorism in Africa: Al-Shabaab's evolution from militant group to media mogul	10.1177/09750878221114375	16
Grossmann, L Luyckx, K Prinzie, P	The longitudinal link between personality and relationship quality in emerging adults: mediation by identity?	10.1177/21676968231162884	3
Hambrock, H De Villiers, F	Proposing a seamless learning experience design (SLED) framework based on international perspectives of educators from five higher education institutions	10.34190/ejel.21.1.2497	4

Authors	Title	DOI	SDGs
Hu, AC Nguyen, K Meyer, TK	Exploring female otolaryngologists' experiences with gender bias and microaggressions: a cross-sectional Canadian survey	10.1186/s40463-022-00618-1	4 5
Hudson, AJ Jordan, PJ Troth, AC	How leaders regulate emotions experienced during organisation change events	10.1108/S1746-979120220000018011	16
Jansen van Vuuren, X Cawood, HM	'Heed the mute language of nature': an ecosemiotic approach to urban wildlife photography as translation of solastalgia1	10.1080/02560046.2023.2269563	15
Kiekens, G Claes, L Schoefs, S Kemme, NDF Luyckx, K Kleiman, EM Nock, MK Myin-Germeys, I	The detection of acute risk of self-injury project: protocol for an ecological momentary assessment study among individuals seeking treatment	10.2196/46244	3
Kigozi-Male, NG Heunis, JC Engelbrecht, MC	Primary health care nurses' mental health knowledge and attitudes towards patients and mental health care in a South African metropolitan municipality	10.1186/s12912-023-01188-x	3
Leshota, P Mushonga, M	Subverting the hegemony of Western 'theological' and cultural domination: King Moshoeshoe I and 'hidden transcripts' of resistance	10.1080/21681392.2023.2208688	16
Li, H Oraby, E Bezuidenhout, GA Eksteen, J	The leaching of palladium from polymetallic oxide ores using alkaline ferricyanide solutions	10.1080/08827508.2023.2243013	3
Lindebaum, D Jordan, PJ	Publishing more than reviewing? Some ethical musings on the sustainability of the peer review process	10.1177/13505084211051047	4 12
Luyckx, K Vanderhaegen, J Raemen, L Claes, L	Identity formation in adolescence and emerging adulthood: a process-oriented and applied perspective	10.1080/17405629.2023.2250128	3
Mafa, MS Lebusa, N Gumani, TF Kemp, G Visser, B Boshoff, WHP Castelyn, HD	Accumulation of complex oligosaccharides and CAZymes activity under acid conditions constitute the Thatcher+Lr9 defence responses to Puccinia triticina	10.1007/s11756-023-01405-7	2 3
Mafa, MS Visser, B Boshoff, WHP Kemp, G Alexander, O Castelyn, HD	Flagging defensive roles of carbohydrate-active enzymes (CAZymes) and carbohydrates during Puccinia triticina wheat interactions	10.1016/j.pmpp.2023.101947	2 3
Mahlako, GM Jordaan, J Cronjé, M	Exploring perpetrator trauma among a cohort of violent juvenile offenders	10.1177/10575677231201800	16
Malakoane, B Chikobvu, P Heunis, JC Kigozi, G Kruger, W	Health managers and community representatives' views of a system-wide intervention to strengthen public health care in the Free State, South Africa	10.4314/ahs.v23i1.79	3
Malakoane, B Chikobvu, P Heunis, JC Kigozi, NG Kruger, WH	Implementing an intervention to improve leadership/management of public healthcare services in the Free State province, South Africa: lessons learned	10.4314/ahs.v23i1.49	3
Martens, M Van Olmen, J Wouters, E Boateng, D Van Damme, W Van Belle, S	Using the multiple streams model to elicit an initial programme theory: from policy dialogues to a roadmap for scaling up integrated care	10.1136/bmjgh-2023-012637	3 16



1. Hudson et al published on how leaders regulate emotions during organizational change.
2. Kigozi-Male et al presented on primary health care nurses' mental health knowledge and attitudes in a South African municipality.
3. Boshoff et al delivered a paper on oligosaccharides and CAZymes activity in Thatcher+Lr9 defence against Puccinia triticina.

Authors	Title	DOI	SDGs
Martin, AF Walker, SP McHugh, LA	Perspective taking as a predictor of burnout among competitive adolescent squash players	10.36386/sajrsper.v45i2.180	3
Mayer, C-H Van Niekerk, R Fouché, PJP Ponterotto, JG	Psychobiography beyond WEIRD?	10.1007/978-3-031-28827-2_1	3
Mayer, C-H Van Niekerk, R Fouché, PJP Ponterotto, JG	Beyond WEIRD: psychobiography in times of transcultural and transdisciplinary perspectives	10.1007/978-3-031-28827-2	1
Moons, P Luyckx, K Thomet, C Budts, W Enomoto, J Sluman, MA Yang, H-L Jackson, JL Khairy, P Cook, SC Chidambarathanu, S Alday, L Oechslein, E Eriksen, K Dellborg, M Berghammer, M Johansson, B Mackie, AS Menahem, S Caruana, M Veldtman, G Soufi, A Fernandes, SM White, K Callus, E Kutty, S Kovacs, AH	Patient-reported outcomes in the aging population of adults with congenital heart disease: results from APPROACH-IS	10.1093/eurjcn/zvac057	3
Munsamy, K Walker, S McHugh, L	Repetitive negative thinking mediates the relationship between experiential avoidance and emotional distress among South African university students	10.1177/00812463231186340	3

Authors	Title	DOI	SDGs
Naidoo, P Oosthuizen, M	Self-compassion as a mechanism to facilitate the adjustment of first-year students to university environments	10.1007/s41042-023-00129-y	4
Naudé, L Piotrowski, K	On becoming an emerging adult parent in South Africa: processes of commitment, exploration, and reconsideration of a parental identity	10.1177/21676968221091365	3
Naudé, L Van Damme, EC	Reconciling control and identity development: experiences of South African adolescents	10.1007/s12144-023-04540-1	3
Ncayiyane, Z Nel, L	Young black fathers' perceptions of fatherhood: a family systems account	10.1177/0192513X231172955	1
Nel, C Burnell, B	The moral development of Albertina Sisulu through classic, feminist and indigenous Southern African lenses	10.1007/978-3-031-28827-2_6	5
Nel, C Vorster, T Fouché, PJP	Guiding psychologists through inner and outer worlds: reflections from an academic Levinsonian psychobiography of Joe Slovo	10.1080/09540261.2023.2254849	4
Nel, L De Beer, A Naudé, L	Challenges as motivation for growth in first-year students living with disability	10.1080/1034912X.2022.2060945	4 10
Nyirenda, M	Corrigendum: the pastor as spiritual mediator between God and the congregation: corruptions of the relationships of the 'under-shepherd', the 'flock' and the 'chief shepherd' in a Zambian context and their implications for spiritual maturity (<i>HTS Theologies Studies/Theological Studies</i> 2021, 77 (4), a6349, 10.4102/hts.v77i4.6349)	10.4102/hts.v79i1.7392	16
Olalere, O	A linguistic analysis of sexist language in songs in two German translations of Chinua Achebe's <i>No longer at ease</i>	-	4
Petrus, T Davids, D	Community solutions for community problems: reflections on a Civic Organisation Colloquium for resolving gangsterism in the northern areas of Gqeberha, Eastern Cape, South Africa	10.3390/socsci12050298	16
Phadi, MM	Merely liberals? Du Bois and Plaatje as radical critics of racial capitalism	10.1080/01419870.2023.2186796	16
Pienaar, M Marais, L Serekoane, M Marais, K Cloete, J Lenka, M Sharp, C	'Being a mother is not child's play': the capabilities of mothers in a low-resource setting in South Africa	10.1111/hex.13689	3 10
Piotrowski, K Cohen-Malayev, M Hihara, S Janowicz, K Morgan, E Naude, L Saiga, S Schachter, E Sugimura, K	Parental identity processes across cultures: commitment, in-depth exploration, and reconsideration of commitment among parents from the United States, Israel, Poland, South Africa, and Japan	10.1080/15283488.2023.2209581	3
Piotrowski, K Naude, L Sanna, K Szramka-Pawlak, B Kwarcirńska, K Dzielińska, M	Perceptions of parenting among parents who regret having a child: a mixed-methods study	10.1080/13229400.2023.2241520	16



1. Naidoo and Oosthuizen submitted an article on self-compassion aiding first-year students' university adjustment.
2. Sarkin, JJ presented on the International Criminal Court's (ICC) ability to secure Vladimir Putin's arrest when he travels, examining state cooperation using ICC non-arrest cases.
3. Solomon and Bekker contributed an article on Intersectionality and LGBTIQ+ rights, comparing Iran, Turkey, and Egypt.

Authors	Title	DOI	SDGs
Ponterotto, JG Fouché, PJP Mayer, C-H Van Niekerk, R	Epilogue: reflections on the futures of psychobiography	10.1007/978-3-031-28827-2_20	3
Sarkin, JJ	Will the International Criminal Court (ICC) be able to secure the arrest of Vladimir Putin when he travels? Understanding state cooperation through other ICC non-arrest cases against Malawi, Chad, Nigeria, the Democratic Republic of Congo, South Africa, Djibouti, Uganda, and Jordan	10.1163/22131035-12010005	16
Sarkin, JJ Pereira Lopes, I	Reaching for both justice and peace in Colombia: understanding the Special Jurisdiction for Peace's mixed approach (using both retributive and restorative justice) to deal with international crimes	10.1080/10282580.2023.2258900	16
Snyman, LC Richter, KL Lukhwareni, A Dreyer, G Botha, MH Van der Merwe, FH Visser, C Dreyer, G	Cytology compared with Hybrid Capture 2 human papilloma virus cervical cancer screening in HIV positive and HIV negative South African women	10.1136/ijgc-2022-003897	3
Solomon, H Bekker, S	Intersectionality and LGBTIQ+ rights: a comparative analysis of Iran, Turkey, and Egypt	10.52305/TAQN7486	1 5 10 16
Tausch, A	Bibliometry from a global perspective: library and classroom outreach and the future ranking of political scientists and publishers	10.52305/XICA3755	16
Tausch, A	Comfort in rootlessness	10.3817/0323202158	3
Tausch, A	Farewell – peace and justice? A look back at (my) half a century of political science in times of the Ukraine crisis	10.52305/GTEU8756	8 10 16

Authors	Title	DOI	SDGs
Tausch, A Neriah, J	Destabilising forces and resilience in the current world crisis: comparisons of global opinion data and a Middle East analysis	10.52305/RVWS0740	5 13
Te, V Chhim, S Buffel, V Van Damme, W Van Olmen, J Ir, P Wouters, E	Evaluation of diabetes care performance in Cambodia through the cascade-of-care framework: cross-sectional study	10.2196/41902	3
Te, V Ma, S Por, I Van Damme, W Wouters, E Van Olmen, J	Diabetes care components effectively implemented in the ASEAN health systems: an umbrella review of systematic reviews	10.1136/bmjopen-2022-071427	3
Terefe, TG Visser, B Pretorius, ZA Boshoff, WHP	Physiologic races of <i>Puccinia triticina</i> detected on wheat in South Africa from 2017 to 2020	10.1007/s10658-022-02583-x	2 15
Valdeón, RA	Translation and the tabloidisation of the <i>New York Times</i> in Spanish	10.1080/13556509.2022.2145880	4
Valdeón, RA	On the cross-disciplinary conundrum: the conceptualisation of translation in translation and journalism studies	10.1080/14781700.2022.2162573	4
Valdeón, RA	Polarisation in the Spanish press: a study of political sectarianism during the COVID-19 pandemic	10.35869/vial.v0i20.4358	16
Valdeón, RA	Translation in times of crises and conflicts	10.1080/0907676X.2023.2196166	3
Valdeón, RA	Agenda-setting and journalistic translation: the <i>New York Times</i> in English, Spanish, and Chinese	10.1556/084.2023.00358	4
Valdeón, RA	Automated translation and pragmatic force: a discussion from the perspective of intercultural pragmatics	10.1075/babel.00328.val	16
Van den Berg, C	'It's about the principle': The measurement or the falsifying stylisation of the world? On Daniel Kehlmann's <i>Measuring the world</i> (2005)	-	3
Van den Berg, C	<i>Acta Germanica</i> : German studies in Africa	10.3726/b20483	4
Van den Berg, C	Editorial – German studies in Africa	-	4
Van den Berg, G Du Plessis, E	ChatGPT and generative AI: possibilities for its contribution to lesson planning, critical thinking, and openness in teacher education	10.3390/educsci13100998	4
Van Tonder, JI Jordaan, J Esterhuyse, K	Self-esteem, interpersonal communication competence, and media and technology usage as predictors of loneliness among university students	10.1177/21582440221148379	3
Walker, SP	The blindfold witness? An accountant's response to slavery and atrocity in the <i>Devil's Paradise</i>	10.1016/j.bar.2021.101068	8 16

Authors	Title	DOI	SDGs
Walker, SP	The pursuit of organisational authenticity in the chartered accountancy profession in Great Britain	10.1080/00014788.2021.2018287	8
Walker, SP	Managing a shower of silver: accounting, control, and audit at the great exhibition, 1851	10.1177/10323732231174904	8
Walker, SP	Accounting and racial violence in the postbellum American South	10.1108/AAAJ-01-2023-6245	16
Wiese, A	Lalela uLwandle (Listen to the Sea): interdisciplinary approaches and embodied engagements in thinking with ocean/s	10.14426/cristal.v11iSI2.654	14
Wiese, A	Shame, techne and embodied translation in Lara Foot's <i>Tshepang: The Third Testament</i>	10.1080/02560046.2023.2263536	16

The dissemination of research and scholarship through platforms such as webinars, public lectures, media, and policy briefs in the Faculty of The Humanities are outlined in Table 10.

Table 10: HUM – Dissemination of research and scholarship through platforms such as webinars, public lectures, media, policy briefs

Surname	Department	Topic/Activity	Format
Mushonga, M	Centre for Gender and Africa Studies	Migration, Borders, and Borderlands	Published book
Gupta, P	Centre for Gender and Africa Studies	Fields of marigold: makers and weavers of luxury African beaded necklaces	Webinar held on 25 August 2023
Solomon, H Naudé, B	Centre for Gender and Africa Studies, Political Studies	'African security in the Anthropocene	Book launch
Solomon, H Coetzee, E	Centre for Gender and Africa Studies, Political Studies	The future of water in Africa	Book launch
Solomon, H Oelofse, M	Centre for Gender and Africa Studies, History	Trajectories of conflict and transitional justice in Africa	Webinar co-hosted on 24 August 2023
Solomon, H	Centre for Gender and Africa Studies	Women, peace and security: implementing UNSCR 1325 in Africa	Webinar held on 6 September 2023
Hudson, H	Centre for Gender and Africa Studies	(Inter)disciplinary and other stories: from women's peace movements to the Women, Peace, and Security Agenda	Lecture presentation at UWC on 27 September 2023
Solomon, H	Centre for Gender and Africa Studies	<ul style="list-style-type: none"> 26 Jan, paper presented to the conference, 'Exploring the interface between coups, violent extremism and poor governance in the Sahel' co-hosted by CGAS (UFS) and the Security Institute for Governance and Leadership in Africa (SIGLA, US) Title: 'What is the interface between coups, violent extremism and poor governance in the Sahel' 	Paper presentations

Surname	Department	Topic/Activity	Format
Solomon, H	Centre for Gender and Africa Studies	<ul style="list-style-type: none"> 15 Feb, paper presented to the round table, 'Political instability in Sahelian Africa: prospects for democracy and peace' co-hosted by the Centre for the Study of Democracy and the Department of Anthropology of St. Mary's College of Maryland (USA). Title: 'Jihad in the Sahel' 9 March, paper presented to the conference, 'South Africa greylisted: How did we get here and where to from here?' co-hosted by CGAS (UFS), Department of Political Sciences (UNISA), Department of Politics and International Relations (UI). Title: 'Terrorist financing in South Africa' - 4 April, paper presented in UFS Thought-Leader Webinar Series. Title: Threats to South Africa's domestic stability and security challenges' 21 April, paper delivered in Gender Talks Series, hosted by the CGAS (UFS). Title: 'Being gay in Al Sisi's Egypt' 5 May, participated in panel discussion, 'The future of water in agriculture: access, quality and climate changes,' hosted by North-West University's Business School and AgriConnect (Bloem Show) 23 May, guest lecture to honours students in the Department of Political Studies and Governance at the UFS. Title: 'Greening of international relations theory' 30 May, paper presented in Africa Dialogue Series, 'The Future of War in Africa' hosted by CGAS (UFS). Title: 'The African state in crisis and the role of militias' 13 June, paper presented to conference, 'The changing nature of security, warfare, institutions and international players', hosted by the United States Command and the Near East South Africa Strategic Studies Centre of the National Defense University (Washington, DC) in Casablanca, Morocco. Title, 'Climate security and governance in Africa' 26 June, paper presented to the book launch of the publication, '<i>African Security and the Anthropocene</i>' co-hosted by Global Action to Prevent War and Soka Gakkai International in New York, USA. Title: '<i>African security in the Anthropocene</i>' 21 July, paper presented to the webinar 'Emerging security threats in Africa' hosted by the Department of Political Studies (UFS). Title: 'Terrorism in the Sahel' 8 August, paper presented to the Liberal Club, Johannesburg. Title: 'LGBTQI rights and democratization in the Middle East: the case of Egypt'. 16 August, paper presented to Defence Intelligence, South African National Defence Force. Pretoria. Title: 'The Russia-Ukraine War and its implications for Africa' 	Paper presentations

Surname	Department	Topic/Activity	Format
		<ul style="list-style-type: none"> • 23 August, paper presented to the 2023 Summer School on EU Counter-Terrorism co-hosted by the Jean Monet Network on EU Counter-terrorism, Dublin City University and the University of South Wales. Dublin. Title: 'Terrorism and Counter-Terrorism in the Sahel' • 24 August, paper presented to the seminar, 'Trajectories of Conflict and Transitional Justice in Africa' co-hosted by the Centre for Gender and Africa Studies, University of the Free State and the Centre for Security, Peace and Conflict Resolution, Nelson Mandela University • 20 September, keynote address delivered to the 'International Conference on Counter-Terrorism, Technology and Development in Africa' co-hosted by the Africa Institute of Obuda University, Hungary and the Centre for Military Studies, Stellenbosch University. Title: 'Terrorism in the Sahel after the coup in Niger' • 20 October, presentation made to Dutch Minister of Defence Kajsa Ollongren and members of the Royal Dutch Ministry of Defence. Stellenbosch 	
Gupta, P	Centre for Gender and Africa Studies	<ul style="list-style-type: none"> • 23 March, presentation at HUMA, University of Cape Town. Title: Joburg's pools in a time of South African infrastructure' • 18 April, presentation/book discussion of her new monograph, <i>'Heritage and Design: Ten Portraits from Goa (India)'</i> (Cambridge UP, 2022). In conversation with Professor Susan Levine, University of Cape Town, Department of Anthropology • 3 August, delivered the Biennial Gendered Worlds Lecture in digital format, hosted by the CGAS, UFS. Title: 'Landscaping South Africa's Gendered Hinterlands' • 22 August, presentation/book discussion of forthcoming Hinterlands volume, hosted by University of Cape Town, Department of Anthropology. In conversation with Esther Peeren (visiting Dutch Professor/Editor of the volume) and Lesley Green and Nikiwe Solomon, Environmental Humanities Programme, UCT • 25 August, presentation in Gender Talks Series hosted by CGAS (UFS). Title: Fields of marigold: makers and wearers of African luxury beaded necklaces • 11-14 September, presentation overview of Southern Atlantic, Indian Ocean Africa Research Cluster Regions 2050 to Final Workshop, Goree Island, Senegal • 26 September, presented in Decolonisation Seminar Series by University of Lisbon, hosted by Sofia Aboim. Title: <i>'Heritage and Design: Ten Portraits from Goa (India)'</i> • 27 September, presented in Department of Anthropology Seminar Series, University of Stellenbosch. Title: 'Looking for, listening to 'crowds' in the Capital Art Studio Collection (Zanzibar)' 	Paper presentations

Surname	Department	Topic/Activity	Format
		<ul style="list-style-type: none"> 12-14 October, presented to University of Bayreuth, International Conference of the Africa Multiple Cluster of Excellence, Spatialities (online). Title: 'Of boats, plates, and waves: portrait of a Goan sea artist' 16-18 November, invited as speaker to international conference, 'Love tokens and the heritage of the Indian Ocean', hosted by Florence Pellegrin at the University of Reunion. Title: 'Of love and landscape across the Indian Ocean: A visual album' 14-16 December, invited as speaker to international conference, 'Colourful threads: the interwoven worlds of art and culture in the Western Indian Ocean' hosted by Sharjah Africa Institute, UAE. Title: 'Imaging the Dodo bird, imagining extinction (Mauritius)' 	
Cawood, S	Centre for Gender and Africa Studies	'Science in the Environment Series' of the Centre for Environmental Management (UFS), 'The interface of cultural heritage and environmental science'	Lecture presentation on 14 June 2023
Mushonga, M	Centre for Gender and Africa Studies	<ul style="list-style-type: none"> 25 April, podcast with the University of Glasgow. Title: 'Decolonising Education and Curriculum' 24 May, host and moderator at the Africa Day Dialogue organised by the OIA, UFS 7 June, delivered public lecture to Decolonising Comparative and Legal Experiences Network (DECLIN) via Zoom. Title: 'Decolonial meditations and meditations in Africa: challenges and opportunities' 3-7 July, participated in the Decolonising Knowledge and Power: Postcolonial Studies, Decolonial Horizons Summer School held at the Centre of Study and Investigation for Decolonial Dialogues, Barcelona, Spain 27 July, public lecture to the Decolonising The Mind (DTM) Reading Group. Title: 'Mental Slavery, Colonisation of the Mind and Exiting the Mental Prison' 24 August, speaker at the 'Bridging the Gap: Exploring the Intersection of Traditional African Values and Modern Perspectives in Achieving Gender Equality' organised by the Unit for Institutional Change and Social Justice, UFS. Title: 'The tradition/modernity trap: Beyond rhetoric' 7 September, public lecture at the National University of Lesotho. Title: 'Decolonising Knowledge'. 7-8 September, workshop held at the National University of Lesotho on 'Decolonising the mind' 18-19 September, presentation at the Power Dynamics of International Knowledge Generation Colloquium. Title: 'Towards decolonised international knowledge generation: exorcism of the ghosts of coloniality' 	



1. *Magaiza, G presented a paper at the Community Development Society in Portland (USA) on Participatory Community Development with Afromontane Communities.*

Surname	Department	Topic/Activity	Format
		<ul style="list-style-type: none"> 27 September, discussant to Prof Sabelo J Ndlovu-Gatsheni's Extraordinary Professorial Inaugural Lecture titled, 'Mapping the Contours for the Battle of Ideas in African Studies' 9-13 October, paper presentation with G Magaiza and S Mushonga at the OHASA 20th Anniversary Conference, Gauteng. Title: 'Voices from below: Representations and narratives of school children and students from Lesotho and the coloniality of the Lesotho-South Africa border' 	Paper presentations
Magaiza, G	Centre for Gender and Africa Studies	<ul style="list-style-type: none"> June 2023, virtual workshop presentation on systems thinking to the multi-stakeholder group session July 2023, presented at the Community Development Society in Portland (USA) on Participatory Community Development with Afromontane Communities September 2023, conducted a national workshop on collaboration and stakeholder mapping with the Department of Social Development middle management in community development as a short course in Pretoria 	Paper presentations
Kamwendo, J	Centre for Gender and Africa Studies	4-6 October, presenting a paper in Nairobi at the Technical University of Kenya for the third international conference on 'Information and Knowledge Management' Title: 'The intersection between Chichewa proverbs and patriarchy: implications for gender equality and women/girls' education and empowerment'	Paper presentation
Dlamini, N	Centre for Gender and Africa Studies	<ul style="list-style-type: none"> June 2023, supervisor training for WiL (work-integrated learning) September 2023, conducted a national workshop on collaboration and stakeholder mapping with the Department of Social Development middle management in community development as a short course in Pretoria 	Paper presentations

Surname	Department	Topic/Activity	Format
Cawood, S	Centre for Gender and Africa Studies	• 'Josias Philip Hoffman and Moshoeshoe I: Friendship in the Search for Justice in the Mohokare Valley in the Nineteenth Century'	Africa Day Memorial Lecture
Gupta, P	Centre for Gender and Africa Studies	• Women's Month: Biennial Gendered Worlds Lecture	Paper presentation
Cawood, S	Centre for Gender and Africa Studies	• 'Mapping the contours of the battle for ideas in African studies and delineating the challenges'	Professorial lecture
Sebolao, R	Dean's Office	• The Humanities impacting communities through entrepreneurship: a case of student enterprise from a South African university	Paper presented at the SoTL in the South Conference-Golden Gate-yet to be published
Naude, B	Political Studies and Governance	• Youth resilience - It takes a village (and then some)	Webinar held at Clarens by Prof L Theron
Solomon, H	Centre for Gender and Africa Studies	• The Spectre of Islamic Terrorism: Comparative Perspectives	Published book
Solomon, H	Centre for Gender and Africa Studies	• Being gay in Al-Sisi's Egypt	Gender talks webinar
Smit, A	Drama and Theatre Arts	• Puppet show	Service learning
Ramoupi, N	History	• Robben Island, Rainbow Dreams	Published book
Van Rooyen, M	Linguistics and Language Practice	• Uncovering tacit ethics in the training of students in non-professional interpreting and translation	Paper presented at the Third Conference of the Association for Translation Studies in Africa (ATSA), Advanced School of Translators and Interpreters of the University of Buea, Cameroon. 20-24 June 2023. (Service learning)
Van Rooyen, M		• Leaving room for serendipity: Teaching non-professional interpreting and translation in a resource-constrained context	Paper presented at the Sixth International Conference on Non-Professional Interpreting and Translation Nicosia, 25-27 May 2024. (Service learning)



1.



2.

1. Cawood S delivered the Africa Day Memorial lecture on Josias Philip Hoffman and Moshoeshoe I's friendship in the search for justice in the Mohokare Valley.
2. Smit, A as part of a Service Learning initiative presented a Puppet show.

Surname	Department	Topic/Activity	Format
Esau, M	Social Work	<ul style="list-style-type: none"> A people-centred approach to assessing the participation of community members in food and nutrition centres 	Presentation at University of North-West Comber conference -community-based educational research
Makutoane, T	Hebrew	<ul style="list-style-type: none"> Teaching Biblical Hebrew in African context 	Memorial lecture provided at Morija Theological seminary

The academics in the Faculty of The Humanities who served on international platforms in 2023 are outlined in Table 11.

Table 11: HUM – Academics serving on international professional platforms

Name	Department	Topic/Activity	Format
Rossouw, M	Art History	Series editor of Brill's <i>Contemporary Cinema</i> book series, an editorial board member of the journal <i>Short Film Studies</i> , and guest editing a special issue on translation, interdisciplinarity and art for the journal <i>Critical Arts</i>	Journal
Brokensha, SI	English	Collaborating with Dr Wilfred Greyling (Waikato Institute of Technology, New Zealand) on a generative AI project: 'The adoption of ChatGPT in the context of academic writing: facilitator or cheating machine?'	Project

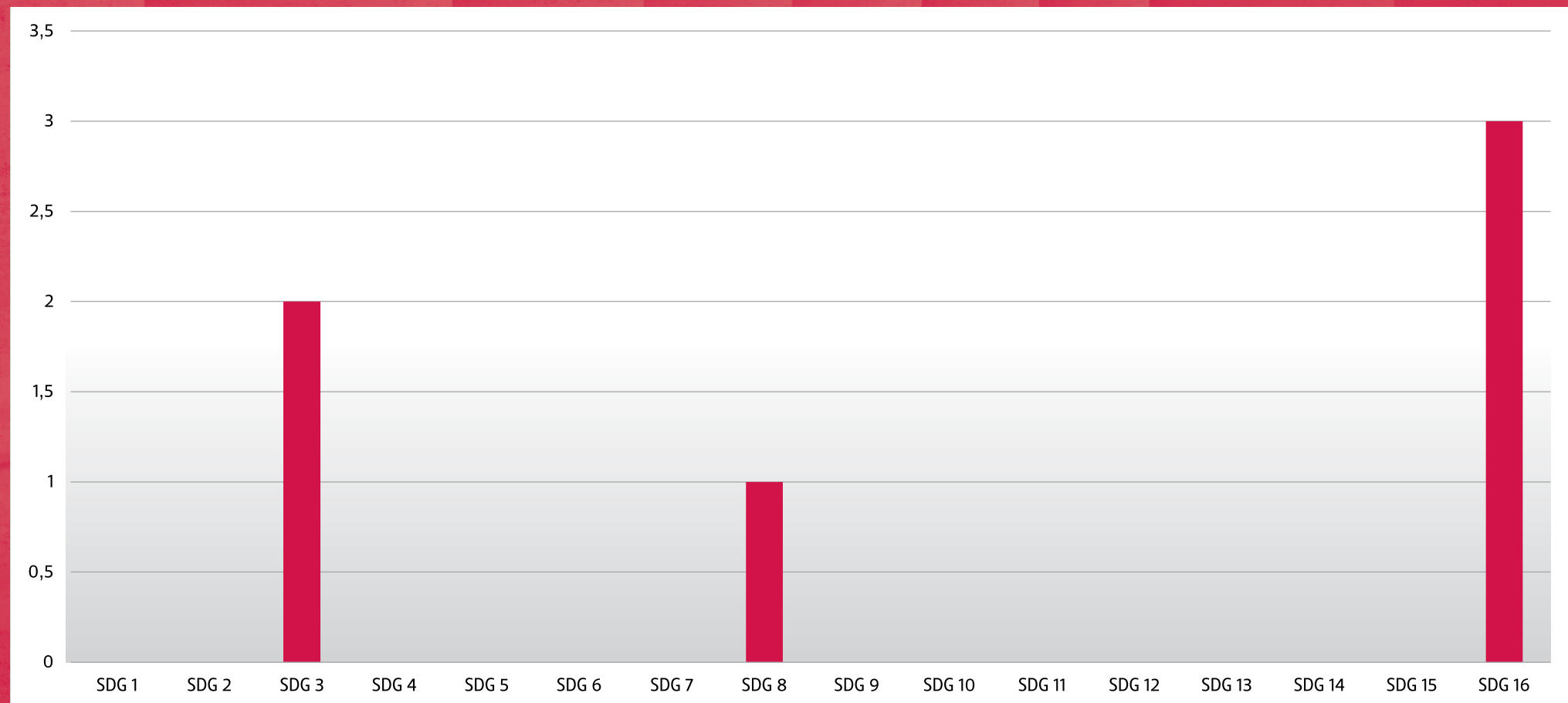
Name	Department	Topic/Activity	Format
Kunnuji, J	OSM	Guest editor for this year's issue of <i>the Journal of the Musical Arts in Africa</i> (JMAA), published by NISC (Pty) Ltd in association with the South African College of Music at the University of Cape Town	Journal
Froneman, A	OSM	Serves as faculty member for the Laban/Bartenieff Institute of Movement Studies International New Pathways certification programme	Membership
Strydom, D	OSM	Serves as Africa Chair for the International Clarinet Association	Membership
Matebesi, S	Sociology	The department co-hosted a conference with the University of Oxford, titled Shrinking knowledge: Forms of Ignorance and the idea of Western Philosophy	Collaboration
Matebesi, S	Sociology	Partnership with International Institute for Knowledge Management (TIKM)	Co-hosted three conferences
Cronje, M	Criminology	Community advisory council member for the Centre for Antiracist Scholarship, Advocacy and Action (CASAA) at Arcadia University	Membership of Advisory Council
Peacock, R	Criminology	Board member of Just Detention International. Los Angeles/Johannesburg	Board membership
Peacock, R	Criminology	Editorial board member of <i>Acta Criminologica: African Journal of Criminology and Victimology</i>	Board membership
Peacock, R	Criminology	International faculty resource member of the Eastern European Victimology Postgraduate course (Dubrovnik)	Board membership
Peacock, R	Criminology	Peer review conducted for the <i>International Journal of Restorative Justice</i>	Board membership
Peacock, R	Criminology	Victimology of State Crime. International scholarly engagement with the Hochschule Niederrhein, University of Applied Sciences in Germany. Week of 20 March 2023	Scholarly engagement
Peacock, R	Criminology	Peer review conducted for the international Serbian journal <i>Temida</i> (Victimology, Gender Studies and Law)	Peer review
Engelbrecht, M	Centre for Health Systems Research and Development	Associate editor <i>African Journal of AIDS Research</i>	Editor
Prof H Strauss	English	Vice-Chair, global Association of Cultural Studies	Membership



Faculty of Law

Faculty of Law

Graph 5 portrays citations for academics from the Faculty of Law in alignment with the 16 SDGs.



Graph 5 Faculty of Law – Alignment of citations and SDGs

The SDG with the most aligned citations is SDG16 (peace, justice, and strong institutions), followed in downward progression by SDG 3 (good health and well-being) and SDG 8 (decent work and economic growth). It thus appears that multi- and transdisciplinary work has been done in contribution to political, social, and economic impact. The detailed citations are outlined in Table 12.



1.

1. Prinsen, L submitted a paper on medicine and the law.

Table 12: Law – Citations in alignment with Sustainable Development Goals

Authors	Title	DOI	SDGs
Prinsen, L	Medicine and the law	10.7196/SAMJ.2023.v113i4.134	3 16
Prinsen, L	Challenges to and regulation of telemedicine in South Africa	10.3366/ajicl.2023.0444	3 16
Tavuyanago, S	Going against the grain of international Labour Law standards: criminalisation of strike action within the health-care sector in Zimbabwe (Health Service Amendment Act, 2022)	10.1093/indlaw/dwad005	8 16
Vinti, C	Decolonisation/ality of 'protected areas': a South African perspective	-	16

No academics in the Faculty of Law served on international platforms in 2023.

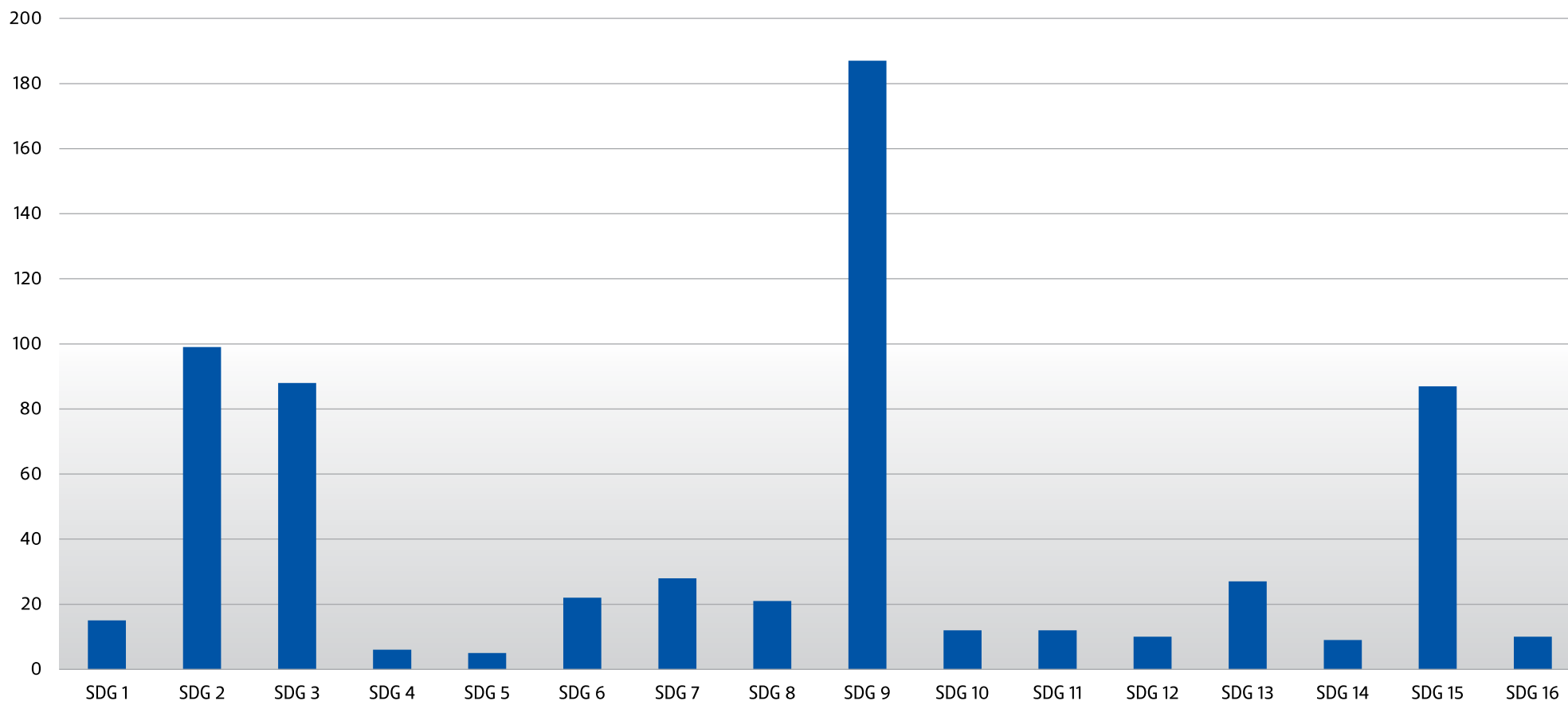




Faculty of Natural and Agricultural Sciences

Faculty of Natural and Agricultural Sciences

Graph 6 portrays citations for academics from the Faculty of Law in alignment with the 16 SDGs.



Graph 6 Faculty of Natural and Agricultural Sciences – Alignment of citations and SDGs

The SDG with the most aligned citations is SDG 9 (industry, innovation and infrastructure), followed in downward progression by SDG 2 (zero hunger), SDG 3 (good health and well-being), and SDG 15 (life on land). It thus appears that multi- and transdisciplinary work was done in contribution to innovation, food security, social, health, and economic impact. The detailed citations are outlined in Table 13.



1. Labuschagne et al presented on Zn fertiliser and mycorrhizal inoculation effects on bread wheat under water deficit.
2. Atangana and Abro submitted an article on simulation and analysis of a chaotic chameleon system for electronic circuits.

Table 13: NAS – Citations in alignment with Sustainable Development Goals

Authors	Title	DOI	SDGs
Abdalkreem, TM Swart, HC Kroon, RE	Comparison of Y203 nanoparticles synthesised by precipitation, hydrothermal, and microwave-assisted hydrothermal methods using urea	10.1016/j.nanoso.2023.101026	9
Abdi, N Van Biljon, A Steyn, C Labuschagne, M	Zn fertiliser and mycorrhizal inoculation effect on bread wheat cultivar grown under water deficit	10.3390/life13051078	2
Abdulsalam, RA Ijabadeniyi, OA Cason, ED Sabiu, S	Characterisation of microbial diversity of two tomato cultivars through targeted next-generation sequencing 16S rRNA and ITS techniques	10.3390/microorganisms11092337	2
Abidemi, A Owolabi, KM Pindza, E	Assessing the dynamics of Lassa fever with impact of environmental sanitation: optimal control and cost-effectiveness analysis	10.1007/s40808-022-01624-y	5
Abraha, YW Jacobs, FJF Brink, A Langner, EHG	Effect of solvent-assisted linker exchange (SALE) and De Novo synthetic routes on CO ₂ uptake and fixation by mixed-linker zeolitic imidazolate frameworks	10.1007/s10904-023-02653-5	13
Abro, KA Atangana, A	Simulation and dynamical analysis of a chaotic chameleon system designed for an electronic circuit	10.1007/s10825-023-02072-2	9
Abro, KA Atangana, A Gomez-Aguilar, JF	Optimal synchronisation of fractal-fractional differentials on chaotic convection for Newtonian and non-Newtonian fluids	10.1140/epjs/s11734-023-00913-6	9

Authors	Title	DOI	SDGs
Abro, KA Atangana, A Gómez-Aguilar, JF	A comparative analysis of plasma dilution based on fractional integro-differential equation: An application to biological science	10.1080/02286203.2021.2015818	3
Abro, KA Atangana, A Gómez-Aguilar, JF	Chaos control and characterisation of brushless DC motor via integral and differential fractal-fractional techniques	10.1080/02286203.2022.2086743	9
Abro, KA Siyal, A Atangana, A	Strange fractal attractors and optimal chaos of memristor-memcapacitor via non-local differentials	10.1007/s12346-023-00849-1	9
Abro, KA Siyal, A Atangana, A Al-Mdallal, QM	Analytical solution for the dynamics and optimisation of fractional Klein-Gordon equation: An application to quantum particle	10.1007/s11082-023-04919-1	9
Abro, KA Souayah, B Malik, K Atangana, A	Chaotic characteristics of thermal convection at smaller versus larger Prandtl number through fractal and fractional differential operators from nanofluid	10.1080/02286203.2021.2018261	9
Abu Hatab, A Owusu-Sekyere, E Esmat, A-R Lagerkvist, C-J	In the midst of the COVID-19 pandemic: perceived risks, management strategies and emerging opportunities for small and medium agri-food enterprises in a developing country	10.1016/j.ijdr.2023.104045	3
Achilonu, CC Gryzenhout, M Ghosh, S Marais, GJ	In vitro evaluation of azoxystrobin, boscalid, fentin-hydroxide, propiconazole, pyraclostrobin fungicides against alternaria alternata pathogen isolated from Carya illinoensis in South Africa	10.3390/microorganisms11071691	2 3
Achilonu, CC Gryzenhout, M Marais, GJ Ghosh, S	Differential detection of alternaria alternata haplotypes isolated from Carya illinoensis using PCR-RFLP analysis of Alt a1 gene region	10.3390/genes14051115	2
Achilonu, CC Gryzenhout, M Marais, GJ Madisha, MT Ghosh, S	Random amplified microsatellites (RAMS) analysis ascertains genetic variation of alternaria alternata causing black spot disease on Carya illinoensis in South Africa	10.3389/fgene.2023.1213102	2
Achilonu, CC Marais, GJ Ghosh, S Gryzenhout, M	Multigene phylogeny and pathogenicity trials revealed alternaria alternata as the causal agent of black spot disease and seedling wilt of pecan (Carya illinoensis) in South Africa	10.3390/pathogens12050672	2
Adebisi, MA Chen, C-D Maaza, M Ronning, C Manikandan, E Motaung, DE Christopher, PS Bharuth-Ram, K Aliyu, NS Pillay, MN Moodley, MK	High-temperature laser-assisted synthesis of boron nanorods, nanowires, and bamboo-like nanotubes	10.1002/pssa.202200464	9
Adeyemi, EO Ojo, TO Quinn, M Brooks, B Oke, OA	What factors are associated with anaemia in pregnancy among Nigerian women? Evidence from a national survey	10.4314/ahs.v23i1.39	3



1. Gryzenhout et al presented a paper on differential detection of *Alternaria alternata* haplotypes isolated from *Carya illinoensis* using PCR-RFLP analysis of *Alt a1* gene region.
2. Achilonu et al. presented a paper on identifying *Alternaria alternata* as the cause of black spot disease and seedling wilt of pecan in South Africa.

Authors	Title	DOI	SDGs
Aharonian, F Ait Benkhali, F Aschersleben, J Ashkar, H Backes, M Barbosa Martins, V Batzofin, R Becherini, Y Berge, D Bernlöhner, K Bi, B Böttcher, M Boisson, C Bolmont, J Borowska, J Bouyahiaoui, M Bradascio, F Brose, R Brun, F Bruno, B Bulik, T Burger-Scheidlin, C Cangemi, F Caroff, S Casanova, S Celic, J Cerruti, M Chambery, P Chand, T Chandra, S Chen, A Chibueze, J Chibueze, O Cotter, G Mbarubucyeye, JD Devin, J Djannati-Ataï, A Dmytriiev, A Egberts, K Einecke, S Ernenwein, J-P Feijen, K Fichet de Clairfontaine, G Filipovic, M Fontaine, G Fübling, M Funk, S Gabici, S Gallant, YA Ghafourizadeh, S Giavitto, G Giunti, L Glawion, D Glicenstein, JF Goswami, P Grolleron, G Grondin, M-H Haerer, L Haupt, M Hermann, G Hinton, JA Hofmann, W Holch, TL	Detection of extended γ -ray emission around the Geminga pulsar with H.E.S.S.	10.1051/0004-6361/202245776	9

Authors	Title	DOI	SDGs
Holler, M Horns, D Huang, Z Jamrozy, M Jankowsky, F Joshi, V Jung-Richardt, I Kasai, E Katarzynski, K Khélifi, B Kluźniak, W Komin, N Kosack, K Kostunin, D Lang, RG Le Stum, S Leitzl, F Lemièrre, A Lemoine-Goumard, M Lenain, J-P Leuschner, F Lohse, T Luashvili, A Lypova, I Mackey, J Malyshev, D Marandon, V Marchegiani, P Marcowith, A Marinos, P Martí-Devesa, G Marx, R Maurin, G Meintjes, PJ Meyer, M Mitchell, A Moderski, R Mohrmann, L Montanari, A Moulin, E Muller, J Nakashima, K De Naurois, M Niemiec, J Noel, AP O'Brien, P Ohm, S Olivera-Nieto, L De Ona Wilhelmi, E Ostrowski, M Panny, S Panter, M Parsons, RD Peron, G Prokhorov, DA Pühlhofer, G Quirrenbach, A Reimer, A Reimer, O Renaud, M Reville, B Rieger, F Rowell, G Rudak, B Ricarte, HR Ruiz-Velasco, E Sahakian, V Salzmänn, H Santangelo, A Sasaki, M Schüssler, F Schutte, HM Schwanke, U Shapopi, JNS Sinha, A Sol, H Specovius, A Spencer, S Stawarz, L Steinmassl, S Sushch, I Suzuki, H Takahashi, T Tanaka, T Tavernier, T Taylor, AM Terrier, R Thorpe-Morgan, C Tsirou, M Tsuji, N Vecchi, M Venter, C Vink, J Wagner, SJ White, R Wiercholska, A Wong, YW Zacharias, M Zargaryan, D Zdziarski, AA Zech, A Zouari, S Å>>wucka, N			
Aharonian, F Ait Benkhali, F Arcaro, C Aschersleben, J Backes, M Barbosa Martins, V Batzofin, R Becherini, Y Berge, D Bernlöhr, K Bi, B Böttcher, M Boisson, C Bolmont, J Borowska, J Bradascio, F Breuhaus, M Brose, R Brun, F Bruno, B Bulik, T Burger-Scheidlin, C Bylund, T Caroff, S Casanova, S Cecil, R Celic, J Cerruti, M Chand, T Chandra, S Chen, A Chibueze, J Chibueze, O Cotter, G Damascene Mbarubucyeye, J	Constraining the cosmic-ray pressure in the inner Virgo Cluster using H.E.S.S. observations of M 87	10.1051/0004-6361/202346056	9

Authors	Title	DOI	SDGs
Djannati-Ataï, A Egberts, K Ernenwein, J-P Fichet de Clairfontaine, G Filipovic, M Fontaine, G Füßling, M Funk, S Gabici, S Ghafourizadeh, S Giavitto, G Glawion, D Glicenstein, JF Goswami, P Grolleron, G Grondin, M-H Haerer, L Haupt, M Hermann, G Hinton, JA Holch, TL Horns, D Jamrozy, M Jankowsky, F Joshi, V Jung-Richardt, I Kasai, E Katarzyński, K Khatoon, R Khélifi, B Kluźniak, W Komin, N Kosack, K Kostunin, D Lang, RG Le Stum, S Leitzl, F Lemièrre, A Lemoine-Goumard, M Lenain, JP Leuschner, F Lohse, T Luashvili, A Lypova, I MacKey, J Malyshev, D Malyshev, D Marandon, V Marchegiani, P Marcowith, A Marinos, P Martí-Devesa, G Marx, R Meyer, M Mitchell, A Moderski, R Mohrmann, L Montanari, A Moulin, E Muller, J Nakashima, K De Naurois, M Niemiec, J Priyana Noel, A O'Brien, P Ohm, S Olivera-Nieto, L De Ona Wilhelmi, E Panny, S Panter, M Parsons, RD Peron, G Pita, S Prokhorov, DA Prokoph, H Pühlhofer, G Punch, M Quirrenbach, A Reichherzer, P Reimer, A Reimer, O Renaud, M Rieger, F Rowell, G Rudak, B Ruiz-Velasco, E Sahakian, V Salzmann, H Sanchez, DA Santangelo, A Sasaki, M Schäfer, J Schüssler, F Schwanke, U Shapopi, JNS Sol, H Specovius, A Spencer, S Stawarz, Ł Steenkamp, R Steinmassl, S Steppa, C Sushch, I Suzuki, H Takahashi, T Tanaka, T Taylor, AM Terrier, R Tsiros, M Tsuji, N Uchiyama, Y Van Eldik, C Van Soelen, B Vecchi, M Veh, J Venter, C Vink, J Wach, T Wagner, SJ White, R Wiercholska, A Wong, YW Zacharias, M Zargaryan, D Zdziarski, AA Zech, A Zouari, S Zywuca, N			

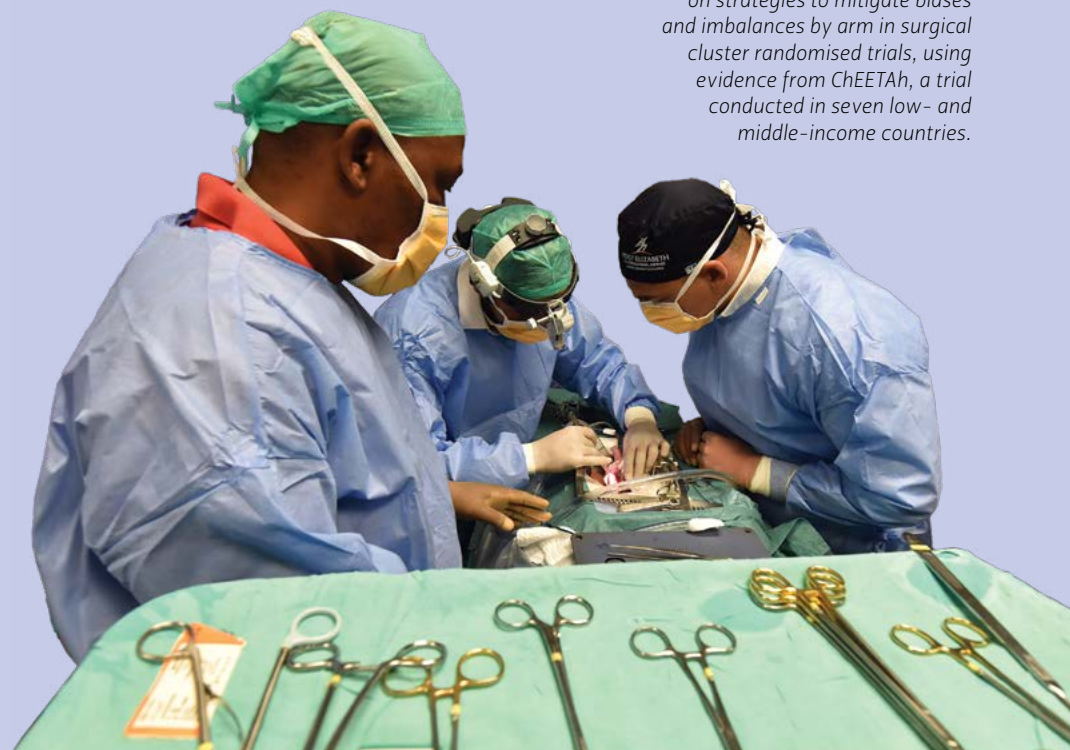
Authors	Title	DOI	SDGs
Aharonian, F Benkhali, FA Aschersleben, J Ashkar, H Backes, M Martins, VB Barnard, J Batzofin, R Becherini, Y Berge, D Bernlöhr, K Bi, B De Bony de Lavergne, M Böttcher, M Boisson, C Bolmont, J Borowska, J Bouyahiaoui, M Bradascio, F Breuhaus, M Brose, R Brown, AM Brun, F Bruno, B Bulik, T Burger-Scheidlin, C Caroff, S Casanova, S Cecil, R Celic, J Cerruti, M Chand, T Chandra, S Chen, A Chibueze, J Chibueze, O Cotter, G Damascene Mbarubucyeye, J Davids, ID Djannati-Ataï, A Dmytriiev, A Doroshenko, V Egberts, K Einecke, S Ernenwein, J-P Fegan, S Fontaine, G Füßling, M Funk, S Gabici, S Ghafourizadeh, S Giavitto, G Glawion, D Glicenstein, JF Goswami, P Grolleron, G Haerer, L Hofmann, W Holch, TL Holler, M Horns, D Jamrozy, M Jankowsky, F Joshi, V Jung-Richardt, I Kasai, E Katarzyński, K Khatoon, R Khélifi, B Kluźniak, W Komin, Nu Kosack, K Kostunin, D Lang, RG Le Stum, S Leidl, F Lemièrre, A Lenain, J-P Leuschner, F Luashvili, A Mackey, J Marandon, V Marchegiani, P Martí-Devesa, G Marx, R Mehta, A Meyer, M Mitchell, A Moderski, R Mohrmann, L Montanari, A Moulin, E De Naurois, M Niemiec, J Priyana Noel, A O'Brien, P Ohm, S Olivera-Nieto, L De Ona Wilhelmi, E Ostrowski, M Panny, S Panter, M Peron, G Prokhorov, DA Pühlhofer, G Punch, M Quirrenbach, A Reichherzer, P Reimer, A Reimer, O Ren, H Rieger, F Rowell, G Rudak, B Ricarte, HR Ruiz-Velasco, E Sahakian, V Salzmänn, H Sanchez, DA Santangelo, A Sasaki, M Schüssler, F Schutte, HM Schwanke, U Shapopi, JNS Sol, H Specovius, A Spencer, S Stawarz, Ł Steenkamp, R Steinmassl, S Steppa, C Sushch, I Suzuki, H Takahashi, T Tanaka, T Terrier, R Tsuji, N Van Eldik, C Van Soelen, B Vecchi, M Veh, J Vink, J Wach, T Wagner, SJ Wiercholska,	The vanishing of the primary emission region in PKS 1510-089	10.3847/2041-8213/ace3c0	9

Hélène Szegedi and
Prof Brian van Soelen.



Authors	Title	DOI	SDGs
A Zacharias, M Zargaryan, D Zdziarski, AA Zech, A Zouari, S Żywucka, N Buckley, DAH Cooper, J Groenewald, D			
Ahogni, D Ahounou, A Boukari, KA Gbehade, O Hessou, TK Nindopa, S Nontonwanou, MJB Guessou, NO Sambo, A Tchati, SV Tchogo, A Tobome, SR Yanto, P Gandaho, I Hadonou, A Hinvo, S Hodonou, MA Tamou, SB Lawani, S Kandokponou, CMB Dossou, FM Gaou, A Goudou, R Kouroumta, MC Lawani, I Malade, E Dikao, ASM Nsilu, JN Ogouyemi, P Akpla, M Mitima, NB Kovohouande, B Kpangon, C Loupeda, SL Agbangla, MV Hedefoun, SE Mavoha, T Ngaguene, J Rugendabanga, J Soton, RR Totin, M Agbadebo, M Akpo, I Dewamon, H Djeto, M Hada, A Hollo, M Houndji, A Houndote, A Hounsa, S Kpatchassou, E Yome, H Alidou, MM Bara, EJ Yovo, BTBD Guinnou, R Hamadou, S Kola, HP Moussa, N Cakpo, B Etchisse, L Hatangimana, E Muhindo, M Sanni, K Yevide, AB Agossou, H Musengo, FB Behanzin, H Seto, DM Alia, BA Alitonou, A Mehounou, YE Agbanda, L Attinon, J Gbassi, M Hounsou, NR Acquah, R Banka, C Esssien, D Hussey, R Mustapha, Y Nunoo-Ghartey, K Yeboah, G Aniakwo, LA Adjei, MNM Adofo-Asamoah, Y Agyapong, MM Agyen, T Alhassan, BAB Amoako-Boateng, MP Appiah, AB Ashong, J Awindaogo, JK Brimpong, BB Dayie, MSCJK Enti, D Ghansah, WW Gyamfi, JE Koggoh, P Kpankpari, R Kudoh, V Mensah, S Mensah, P Morkor Opandoh, IN Morna, MT Nortey, M Odame, E Ofori, EO Quaicoo, S Quartson, EM Teye-Topey, C Yigah, M Yussif, S	Strategies to minimise and monitor biases and imbalances by arm in surgical cluster randomised trials: evidence from ChEETAH, a trial in seven low- and middle-income countries	10.1186/s13063-022-06852-2	3

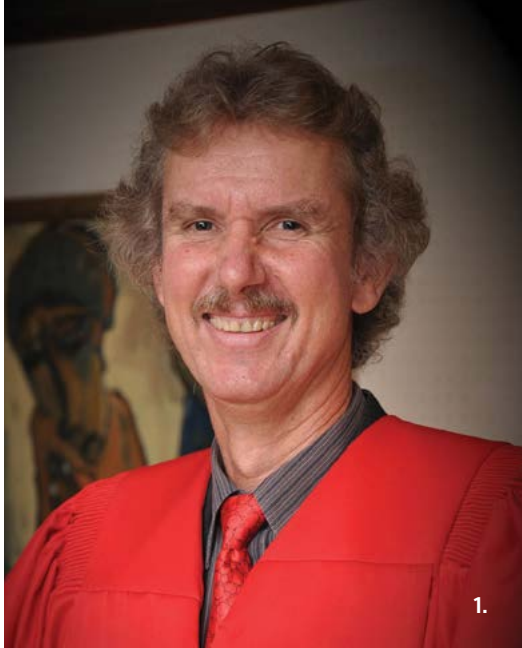
Ahogni et al. presented a paper on strategies to mitigate biases and imbalances by arm in surgical cluster randomised trials, using evidence from ChEETAH, a trial conducted in seven low- and middle-income countries.



Authors	Title	DOI	SDGs
Adjei-Acquah, E Agyekum-Gyimah, VO Agyemang, E Akoto-Ampaw, A Amponsah-Manu, F Arkorful, TE Dokurugu, MA Essel, N Ijeoma, A Obiri, EL Ofosu-Akromah, R Quarchey, KND Adam-Zakariah, L Andoh, AB Asabre, E Boateng, RA Koomson, B Kusiwaa, A Naah, A Oppon-Acquah, A Oppong, BA Agbowada, EA Akosua, A Armah, R Asare, C Awere-Kyere, LKB Bruce-Adjei, A Christian, NA Gakpetor, DA Kennedy, KK Mends-Odro, J Obbeng, A Ofosuhene, D Osei-Poku, D Robertson, Z Acheampong, DO Acquaye, J Appiah, J Arthur, J Boakye-Yiadom, J Agbeko, AE Gyamfi, FE Nyadu, BB Abdulai, S Adu-Aryee, NA Agboadoh, N Akoto, E Amoako, JK Aperkor, NT Asman, WK Attepor, GS Bediako-Bowan, AA Boakye-Yiadom, K Brown, GD Dedey, F Etwire, VK Fenu, BS Kumassah, PK Larbi-Siaw, LA Nsaful, J Olatola, DO Tsatsu, SE Wordui, T Abdul-Aziz, IIA Abubakari, F Akunyam, J Anasara, GAG Ballu, C Barimah, CG Boateng, GC Kwabena, PW Kwarteng, SM Luri, PT Ngaaso, K Ogudi, DKD Adobea, V Bennin, A Doe, S Kantanka, RS Kobby, E Kyeremeh, C Osei, E Owusu, PY Owusu, F Sie-Broni, C Zume, M Abdul-Hafiz, S Acquah, DK Adams, SM Alhassan, MS Amadu, M Asirifi, SA Awe, M Azanlerigu, M Dery, MK Edwin, Y Francis, AA Limann, G Maalekuu, A Malechi, H Mohammed, S Mohammed, I Mumuni, K Ofori, BA Quansah, JIK Seidu, Yahaya, S Acquah, EK Alhassan, J Boakye, P Coompson, CL Gyambibi, AK Jeffery-Felix, A Kontor, BE Manu, R Mensah, E Naah, G Noufuentes, C Sakyi, A Chaudhary, R Misra, S Pareek, P Pathak, M Poonia, DR Rathod, KK Rodha, MS Sharma, N Sharma, N Soni, SC Varsheney, VK			

Authors	Title	DOI	SDGs
Vishnoi, JR Garnaik, DK Huda, F Lokavarapu, MJ Mishra, N Ranjan, R Seenivasagam, RK Singh, S Solanki, P Verma, R Yhoshu, E John, S Kalyanapu, JA Kutma, A Philips, S Gautham, AK Hepzibah, A Mary, G Singh, DS Abraham, ES Chetana, C Dasari, A Dummala, P Gold, CS Jacob, J Joseph, JN AS Tabiri, S Kurien, EN Mary, P Mathew, AJ Mathew, AE Prakash, DD Samuel, O Sukumar, A Syam, N Varghese, R Bhatt, A Bhatti, W Dhar, T Ghosh, DN Goyal, A Goyal, S Hans, MA Haque, PD Jain, D Jain, R Jyoti, J Kaur, S Kumar, K Luther, A Mahajan, A Mandrelle, K Michael, V Mukherjee, P Rajappa, R Sam, VD Singh, P Suroy, A Thind, RS Veetil, SK Williams, R Sreekar, D Daniel, ER Jacob, SE Jesudason, MR Kumari, P Mittal, R Prasad, S Samuel, VM Shankar, B Sharma, S Sivakumar, MV Surendran, S Thomas, A Trinity, P Kanchodu, S Leshiini, K Saluja, SS Attri, AK Bansal, I Gupta, S Gureh, M Kapoor, S Aggarwal, M Kanna, V Kaur, H Kumar, A Singh, S Singh, G John, V Adnan, M Agrawal, N Kumar, U Kumar, P Abhishek, S Sehwat, V Singla, D Thami, G Kumar, V Mathew, S Pai, MV Prabhu, PS Sundeep, PT Akhtar, N Chaturvedi, A Gupta, S Kumar, V Prakash, P Rajan, S Singh, M Tripathi, A Alexander, PV Thomas, J Zechariah, P Ismavel, VA Kichu, M Solomi, CV Alpheus, RA Choudhrie, AV Gunny, RJ Joseph, S Malik, MA Peters, NJ Pundir, N Samujh, R Ahmed, HI Aziz, G Chowdri, NA Dar, RA Kour, R Mantoo, I Mehraj, A Parray, FQ Saqib, N Shah, ZA Wani, RA Raul, S Rautela, K Sharma, R Singh, N Vakil, R Chowdhury, P Chowdhury, S Mathai, S Nayak, P Roy, B Alvarez Villaseñor, AS Ascencio Díaz, KV Avalos Herrera, VJ Barbosa Camacho, FJ Hernández, AB Ahumada, EB Brancaccio Pérez, IV Calderón			

Authors	Title	DOI	SDGs
Llamas, MA Cardiel, GC Cervantes Cardona, GA Guevara, GC Perez, EC Chávez, M Chejfec Ciociano, JM Cifuentes Andrade, LR Cortés Flores, AO Cortes Torres, EJ Cueto Valadez, TA Cueto Valadez, AE Martínez, EC Barradas, PD Estrada, IE Becerril, PF Flores Cardoza, JA Orozco, CF García González, LA Reyna, BG Sánchez, EG González Bojorquez, JL Espinoza, EG Ojeda, AG González Ponce, FY Guerrero Ramírez, CS Guzmán Barba, JA Guzmán Ramírez, BG Guzmán Ruvalcaba, MJ Hernández Alva, DA Ibarra Camargo, SA Ibarrola Peña, JC Torres, MI Tornero, JJ Lara Pérez, ZM País, RM Mellado Tellez, MP Miranda Ackerman, RC Santana, DM Villela, GM Hinojosa, RN Escobar, CN Rodríguez, IO Flores, OO Barreiro, AO Rubio, JO Pacheco Vallejo, LR Pérez Bocanegra, VH Pérez Navarro, JV Plascencia Posada, FJ Quirarte Hernández, MA Ramírez Gonzalez, LR Reyes Elizalde, EA Romo Ascencio, EV Bravo, CR Ruiz Velasco, CB Sánchez Martínez, JA Villaseñor, GS Sandoval Pulido, JI Serrano García, AG Suárez Carreón, LO Tijerina Ávila, JJ Vega Gastelum, JO Vicencio Ramirez, ML Zarate Casas, MF Zuloaga Fernández del Valle, CJ Mata, JAA Vanegas, MAC Arias, RGC Tinajero, CC Samano, FD Zepeda, FD Barajas, BVE Banuelos, GG Calvillo, MDCG Ortiz, FI Ramirez, ML Arroyo, GL Angeles, LOM Morales Iriarte, DGI Lomeli, AFM Navarro, JEO Perez, JO Ramirez, DO Baolboa, LGP Lozano, JP Reyes, GY Castillo, MN Domínguez, ACG Mellado, DH Morales, JFM Del Carmen H Namur, L Pesquera, JAA Maldonado, LMP De la Medina, AR Bozada-Gutierrez, K Casado-Zarate, AF Delano-Alonso, R Herrera-Esquivel, J Moreno-Portillo, M Trejo-Avila, M Fonseca, RKC Hernandez, EEL Quiros, BC			



1. Osthoff et al presented a paper on heterosis and combining ability of iron, zinc, and their bioavailability in maize inbred lines under low nitrogen.
2. Akinwumi et al. presented a paper on the preparedness of primary health care facilities in Osun state, South-West Nigeria, for implementing essential non-communicable disease interventions, comparing rural and urban settings.

Authors	Title	DOI	SDGs
Ahishakiye, E Mwangi, W Murithi, P Wario, R Kanobe, F Danison, T	An ensemble model based on learning vector quantisation algorithms for early detection of cassava diseases using spectral data	10.1007/978-3-031-28472-4_20	9
Ajibade, OA Oladipo, EK Kwenda, S Khumalo, Z Ismail, A Oloke, JK Oyawoye, OM Onyeaka, H	Whole genomic sequence of enterobacter sichuanensis AJI 2411 – a plant growth promoting rhizobacteria	10.1016/j.gene.2023.147725	2 15
Akhtar, S Mekonnen, TW Mashingaidze, K Osthoff, G Labuschagne, M	Heterosis and combining ability of iron, zinc and their bioavailability in maize inbred lines under low nitrogen and optimal environments	10.1016/j.heliyon.2023.e14177	2 15
Akhtar, S Mekonnen, TW Osthoff, G Mashingaidz, K Labuschagne, M	Genotype by environment interaction in grain iron and zinc concentration and yield of maize hybrids under low nitrogen and optimal conditions	10.3390/plants12071463	2
Akinwumi, AF Esimai, OA Arije, O Ojo, TO Esan, OT	Preparedness of primary health care facilities on implementation of essential non-communicable disease interventions in Osun state South-West Nigeria: a rural-urban comparative study	10.1186/s12913-023-09138-8	3
Akpomie, KG Ghosh, S Gryzenhout, M Conradie, J	Ananas comosus peel-mediated green synthesised magnetite nanoparticles and their antifungal activity against four filamentous fungal strains	10.1007/s13399-021-01515-9	2 9
Akrami, MH Owolabi, KM	On the solution of fractional differential equations using Atangana's Beta derivative and its applications in chaotic systems	10.1016/j.sciaf.2023.e01879	9

1. Amoah, C submitted an article on a quality management framework for government social housing construction in South Africa.
2. Amoah et al. presented a paper on disabled access compliance to university infrastructure: Built environment students' perceptions.



Authors	Title	DOI	SDGs
Alharthi, NH Atangana, A Alkahtani, BS	Some results on the existence of fractal-fractional ODE with power law	10.1016/j.rinam.2023.100398	9
Alharthi, NH Atangana, A Alkahtani, BS	Numerical analysis of some partial differential equations with fractal-fractional derivative	10.3934/math.2023116	9
Alharthi, NH Atangana, A Alkahtani, BS	Analysis of cauchy problem with fractal-fractional differential operators	10.1515/dema-2022-0181	9
Alharthi, NH Atangana, A Alkahtani, BS	Analytical and numerical analysis of damped harmonic oscillator model with nonlocal operators	10.1515/dema-2022-0230	3
Alhummiyany, B Sharma, K Buckley, DL Soe, KK Sourbron, SP	Physiological confounders of renal blood flow measurement	10.1007/s10334-023-01126-7	3
Alqhtani, M Owolabi, KM Saad, KM Pindza, E	Spatiotemporal chaos in spatially extended fractional dynamical systems	10.1016/j.cnsns.2023.107118	9
Amegbor, IK Van Biljon, A Shargie, NG Tarekegne, A Labuschagne, MT	Combining ability estimates for quality and non-quality protein maize inbred lines for grain yield, agronomic, and quality traits	10.3389/fsufs.2023.1123224	1 2 10
Amoah, C	The impact of the Black Economic Empowerment concept in the South African public procurement systems on black construction professionals	10.1504/IJPM.2021.10040543	1 16
Amoah, C	Quality management framework for government social housing construction in South Africa	10.1108/IJBPA-10-2022-0169	10 11 16

Authors	Title	DOI	SDGs
Amoah, C	The BEE concept in the public procurement system: the perspective of construction professionals	10.14455/ISEC.2023.10(1).PRO-02	12
Amoah, C	Sustainability of the government policy on social housing construction in South Africa: the emerging issues	10.1088/1755-1315/1176/1/012039	10 11 16
Amoah, C Bamfo-Agyei, E Simpeh, F	Disable access compliance to university infrastructure: Built environment students' perceptions	10.1108/PM-01-2023-0004	4
Andres, L Denoon-Stevens, S Jones, P	Planners, blended (in)formality and a public interest of fragments	10.1080/02697459.2023.2247249	11
Archer, W Presnyakova, D Aldeias, V Colarossi, D Hutten, L Lauer, T Porraz, G Rossouw, L Shaw, M	Late Acheulean occupations at Montagu Cave and the pattern of middle Pleistocene behavioural change in Western Cape, Southern Africa	10.1016/j.jhevol.2023.103435	15
Arnal, M Robert-Granié, C Ducrocq, V Larroque, H	Validation of single-step genomic BLUP random regression test-day models and SNP effects analysis on milk yield in French Saanen goats	10.3168/jds.2022-22550	2
Atangana, A	Some stochastic chaotic attractors with global derivative and stochastic fractal mapping: existence, uniqueness, and applications	10.1002/mma.7262	9
Atangana, A Akgül, A	Integral transforms and engineering: theory, methods, and applications	10.1201/9781003359869	9
Atangana, A Araz, Sİ	A successive midpoint method for nonlinear differential equations with classical and Caputo-Fabrizio derivatives	10.3934/math.20231397	9
Atangana, A Araz, Sİ	Piecewise differential equations: theory, methods, and applications	10.3934/math.2023785	9
Atangana, A İğret Araz, S	Step forward on nonlinear differential equations with the Atangana-Baleanu derivative: inequalities, existence, uniqueness, and method	10.1016/j.chaos.2023.113700	9
Atangana, A Khan, MA	Analysis of fractional global differential equations with power law	10.3934/math.20231259	9
Atangana, A Koca, İ	Analytical and numerical investigation of the Hindmarsh-Rose model neuronal activity	10.3934/mbe.2023065	9
Atangana, A Mishra, J	Analysis of nonlinear ordinary differential equations with the generalized Mittag-Leffler kernel	10.3934/mbe.2023875	9
Atangana, A Rashid, S	Analysis of a deterministic-stochastic oncolytic M1 model involving immune response via crossover behaviour: Ergodic stationary distribution and extinction	10.3934/math.2023167	9
Atangana, A Shafiq, A	Volterra equation with constant fractional order and variable order fractal dimension	10.1007/978-981-19-0179-9_17	9

Authors	Title	DOI	SDGs
Atsa'am, DD Gbaden, T Wario, R	Association rules on attributes of illicit drugs, suspect's demographics and offence categories	10.1177/00220426221140010	3 16
Atsa'am, DD Wario, R	Adopting the divide-and-conquer strategy for use of terrorists in counterterrorism through the stag hunt game-theoretic environment	10.1080/19361610.2021.1908814	16
Atsa'am, DD Gbaden, T Wario, R	Segmentation of pregnant women to guide how intervention programmes are formulated and implemented to ensure positive pregnancy outcomes	10.4018/978-1-6684-8103-5.ch018	3
Atsa'am, DD Gbaden, T Wario, R	A machine learning approach to formation of earthquake categories using hierarchies of magnitude and consequence to guide emergency management	10.1016/j.dsm.2023.06.005	11
Attia, N Akgül, A Atangana, A	Reproducing kernel method with global derivative	10.1155/2023/2726735	2 9
Ayoub, I Mushtaq, U Yagoub, MYA Som, S Swart, HC Kumar, V	Structural and optical characteristics of green-emitting BaGd ₂ ZnO ₅ :Tb ³⁺ phosphor for LED applications	10.1016/j.physb.2023.415299	13
Ayoub, I Sehgal, R Sharma, V Sehgal, R Swart, HC Kumar, V	Applications of upconversion nanoparticles in bio-imaging	10.1007/978-981-99-3913-8_15	9
Ayoub, I Sehgal, R Sharma, V Sehgal, R Swart, HC Kumar, V	Rare-earth-doped inorganic materials for light-emitting applications	10.1007/978-981-99-4145-2_1	7 9 11
Ayoub, I Sehgal, R Sharma, V Sehgal, R Swart, HC Kumar, V	Rare-earth-doped ternary oxide materials for down-conversion and upconversion	10.1007/978-981-99-4145-2_5	3 7 9
Ayoub, I Sehgal, R Swart, HC Sehgal, R Kumar, V	Perovskite-based LEDs and lasers	10.1016/B978-0-323-99529-0.00015-1	7
Ayoub, I Tantray, AM Sehgal, R Sharma, V Sehgal, R Swart, HC Kumar, V	Optical and electrical switching of thermochromic metal oxide nanostructures	10.1007/978-981-99-5640-1_2	9
Azov, VA De Beer, FJ	Redox-responsive macrocyclic hosts based on Calix[4]arene and Calix[4]resorcinarene scaffolds	10.1002/ijch.202300075	9
Babatola, A Solomon, O Ojo, T Solomon, O Olatunya, O Fadare, J Oluwadiya, K	Knowledge, practice, and technique of face-mask usage among health-care workers in a tertiary hospital in Ado-Ekiti, Nigeria	10.1016/j.sciaf.2023.e01559	8
Bahta, YT Lombard, WA	Nexus between social vulnerability and resilience to agricultural drought among South African smallholder livestock households	10.3390/atmos14050900	1 2 6
Balogun, FO Abdulsalam, RA Ojo, AO Cason, E Sabiu, S	Chemical characterisation and metagenomic identification of endophytic microbiome from South African sunflower (<i>Helianthus annuus</i>) seeds	10.3390/microorganisms11040988	2
Benjamin, R Budde, C	A note on the order Lozanovsky spectrum for positive operators	10.1007/s11785-023-01374-4	9



1. Bahta and Lombard submitted an article on the nexus between social vulnerability and resilience to agricultural drought among South African smallholder livestock households.
2. Babatola et al. presented a paper on the knowledge, practice, and technique of face-mask usage among healthcare workers in a tertiary hospital in Ado-Ekiti, Nigeria.
3. Balogun et al. submitted an article on the chemical characterisation and metagenomic identification of endophytic microbiome from South African sunflower seeds.

Authors	Title	DOI	SDGs
Bhanye, J	'Emerging forms of authority in land access?': the occult and witchcraft among Malawian migrants in peri-urban Zimbabwe	10.1007/978-3-031-23379-1_5	11
Bhanye, J	'Nimble sociality and belonging': an ethnography of migrants' responses to bans on associational life during the COVID-19 pandemic	10.1007/s12132-023-09503-0	3 11 16
Bhanye, J	'Strategic, dual sense of place' among middle-aged migrants in the diaspora	10.1108/IJMHS-07-2022-0075	8 10 11
Bhanye, J Shayamunda, RH Mpahlo, RI Matamanda, A Kachena, L	Land politics and settlers' responses to land tenure under threat in emerging peri-urban spaces in Zimbabwe	10.1016/j.landusepol.2023.106945	1
Bhatt, A Bates, MJ Marcu, CB Matheny, RG Carabello, BA Yin, K Boyd, WD	Second-generation extracellular matrix patch for epicardial infarct repair	10.1186/s13019-023-02358-3	3
Bhattacharya, S Kamper, F Beirlant, J	Outlier detection based on extreme value theory and applications	10.1111/sjos.12665	9
Biesbroek, S Kok, FJ Tufford, AR Bloem, MW Darmon, N Drewnowski, A Fan, S Fanzo, J Gordon, LJ Hu, FB Lähteenmäki, L Nnam, N Ridoutt, BG Rivera, J Swinburn, B Van'T Veer, P	Towards healthy and sustainable diets for the 21st century: importance of sociocultural and economic considerations	10.1073/pnas.2219272120	2 10
Bilal, M Shongwe, SC Bashir, A Ghadi, YY	Assessing secure openID-based EAAA protocol to prevent MITM and phishing attacks in web apps	10.32604/cmc.2023.037071	16

1. Castillo et al. submitted a paper on bacterial community shifts and influences in acid mine drainage treatment using a barium carbonate disperse alkaline substrate system.
2. Chemonges et al. presented an article on mapping and validating all-stage resistance to stem rust in four South African winter wheat cultivars.



Authors	Title	DOI	SDGs
Bobe, R Aldeias, V Alemseged, Z Anemone, RL Archer, W Aumaître, G Bamford, MK Biro, D Bourlès, DL Doyle Boyd, M Braun, DR Capelli, C d'Oliveira Coelho, J Habermann, JM Head, JJ Keddadouche, K Kupczik, K Lebatard, A-E Lüdecke, T Macôa, A Martínez, FI Mathe, J Mendes, C Paulo, LM Pinto, M Presnyakova, D Püschel, TA Regala, FT Sier, M Ferreira da Silva, MJ Stalmans, M Carvalho, S	The first Miocene fossils from coastal woodlands in the southern East African Rift	10.1016/j.isci.2023.107644	15
Belokang, AS Mathabathe, MN Motaung, DE Arendse, CJ Swart, HC	Grain structure orientational change in Ti6Al4V alloys induced by sea water quenching and novel stress relief annealing process	10.1016/j.matchemphys.2023.127328	2 14
Bonizzoni, C Maksutoglu, M Ghirri, A Van Tol, J Rameev, B Affronte, M	Coupling sub-nanoliter BDPA organic radical spin ensembles with YBCO inverse anapole resonators	10.1007/s00723-022-01505-8	9
Bopape, DA Mathobela, S Matinise, N Motaung, DE Hintsho-Mbita, NC	Green synthesis of CuO-TiO ₂ nanoparticles for the degradation of organic pollutants: physical, optical, and electrochemical properties	10.3390/catal13010163	2 9 13
Bopape, DA Tetana, ZN Mabuba, N Motaung, DE Hintsho-Mbita, NC	Biosynthesis of TiO ₂ nanoparticles using Commelina benghanlensis for the photodegradation of methylene blue dye and antibiotics: effect of plant concentration	10.1016/j.rechem.2023.100825	2 9

Authors	Title	DOI	SDGs
Bowers, MA Zachariades, C Robinson, DE Cohen, JE Von Tschirnhaus, M Uyi, O	Helical shoot-tip mines on three genera of Asteraceae in Jamaica are caused by different species of <i>Melanagromyza</i> – implications for the biological control of <i>Chromolaena odorata</i> using <i>Melanagromyza eupatoriella</i>	10.1016/j.biocontrol.2023.105151	2
Bowman, JP Hugo, C Nicholson, A Hahnke, R Lau, EF Holmes, B Sutcliffe, I	International Committee on Systematics of Prokaryotes: Subcommittee on the taxonomy of aerobic Bacteroidota. Minutes of the online meeting 25 April 2023	10.1099/ijsem.0.006144	2 15
Braga-Ribas, F Pereira, CL Sicardy, B Ortiz, JL Desmars, J Sickafoose, A Emilio, M Morgado, B Margoti, G Rommel, FL Camargo, JIB Assafin, M Vieira-Martins, R Gomes-Júnior, AR Santos-Sanz, P Morales, N Kretlow, M Lecacheux, J Colas, F Boninsegna, R Schreurs, O Dauvergne, JL Fernandez, E Van Heerden, HJ González, H Bihel, D Jankowsky, F	Constraints on (2060) Chiron's size, shape, and surrounding material from the November 2018 and September 2019 stellar occultations	10.1051/0004-6361/202346749	9
Brush, PL Santana, A Toci, GR Slotkin, E Solomon, M Jones, T Saxena, A	Surgeon estimations of acetabular cup orientation using intraoperative fluoroscopic imaging are unreliable	10.1016/j.artd.2023.101109	3
Buchanan, JW Flagel, LE MacNeil, MD Nilles, AR Hoff, JL Pickrell, JK Raymond, RC	Variance component estimates, phenotypic characterisation, and genetic evaluation of bovine congestive heart failure in commercial feeder cattle	10.3389/fgene.2023.1148301	3
Budde, C Dobrick, A Glück, J Kunze, M	A monotone convergence theorem for strong Feller semigroups	10.1007/s10231-022-01293-9	9
Buleti, SI Kuyah, S Olagoke, A Gichua, M Were, S Chidawanyika, F Martin, EA	Farmers' perceived pathways for further intensification of push-pull systems in Western Kenya	10.3389/fsufs.2023.1191038	2 7 12
Burger, DA Van der Merwe, S Lesaffre, E Le Roux, PC Raath-Krüger, MJ	A robust mixed-effects parametric quantile regression model for continuous proportions: quantifying the constraints to vitality in cushion plants	10.1111/stan.12293	2
Cairncross, B Harris, C Roelofse, F Van Huyssteen, C	Who's who in mineral names: Marian Tredoux (1952–2019)	10.1080/00357529.2023.2129305	15
Carroll, LL Moskaleva, LV De Lara-Castells, MP	Carbon vacancy-assisted stabilisation of individual Cu ₅ clusters on graphene. Insights from ab initio molecular dynamics	10.1039/d2cp05843j	9
Castillo, J Alom, J Gomez-Arias, A Cebekhulu, S Matu, A Cason, E Valverde, A	Bacterial communities shift and influence in an acid mine drainage treatment using barium carbonate disperse alkaline substrate system	10.1016/j.scitotenv.2023.163526	6
Charak, I Manhas, M Bedyal, AK Vij, A Swart, HC Kumar, V	Synthesis, luminescence, and photometric investigation of Sr ₂ B ₂ O ₅ :Dy ³⁺ phosphor for UV-based white LEDs	10.1007/s00339-023-06488-2	7
Chemonges, M Herselman, L Pretorius, ZA Rouse, MN Marè, A Boshoff, WHP	Mapping and validation of all-stage resistance to stem rust in four South African winter wheat cultivars	10.1007/s10681-022-03143-4	2

Authors	Title	DOI	SDGs
Chen, Y Yang, Z Jin, J Qiao, J Wang, Y Molocheev, MS Swart, HC Xia, Z	Site occupation engineering toward giant red-shifted photoluminescence in (Ba,Sr)2LaGaO5:Eu2+ phosphors	10.1021/acs.chemmater.3c01980	9
Cheon, H Wang, Y Wightman, SM Jackson, MW Stark, GR	How cancer cells make and respond to interferon- γ	10.1016/j.trecan.2022.09.003	3
Chikobvu, D Jakata, O	Fitting statistical parent distributions to quantify financial risk in the South African financial Index (J580)	10.18576/jsap/120329	10
Chikobvu, D Jakata, O	Quantifying diversification effects of a portfolio using the generalised extreme value distribution- Archimedean Gumbel Copula model	10.18576/amis/170603	8
Chikobvu, D Ndlovu, T	RiskMetrics method for estimating value at risk to compare the riskiness of BitCoin and rand	10.21511/imfi.20(1).2023.18	8
Chikobvu, D Ndlovu, T	The generalised extreme value distribution approach to comparing the riskiness of BitCoin/US dollar and South African rand/US dollar returns	10.3390/jrfm16040253	10
Chikowore, G Martin, GD Chidawanyika, F Hill, M Naser, S Day, M Grice, T Chikwenhere, G Mangosho, E Sheppard, A	Weed biological control in Zimbabwe: challenges and future prospects	10.1016/j.sajb.2023.01.054	2 10 15
Chirisa, I Nel, V	Conflicts, confrontations, and conduits in rural environments: is resilience at work in Gokwe South Rural District?	10.1177/09730052211065943	8 9
Chiweshe, TT Welman-Purchase, M	Fusion extraction of base metals (Al, Cr, Fe, Ti and V) using ammonium phosphate salt as flux	10.3390/cryst13050784	9 15
Clauss, M Codron, D Hummel, J	Equid nutritional physiology and behaviour: an evolutionary perspective	10.1016/j.jevs.2023.104265	6
Codron, D Bousman, CB Buschke, F Clauss, M Lewis, C Van der Merwe, R Van der Mescht, A Brink, JS	Competition drives the evolution of emergent neutrality in the dietary niches of mammalian herbivores	10.1016/j.quaint.2021.11.002	2 15
Coetsee, E Yagoub, MYA Swart, HC	Near infrared fluorescence properties of Tb4+ and Tb3+ inter-conversion states in CaF2:Yb3+nanocrystals	10.1016/j.materresbull.2023.112350	7
Conix, S Cuypers, V Zachos, FE De Block, A	Taxonomic disagreement about ranks in grey-area taxa: a vignette study	10.1093/biosci/biad081	15
Conradie, J Erasmus, E	Cobalt complexes with multi-dentate N-donor ligands: redox, X-ray photoelectron spectroscopic and theoretical study	10.1016/j.rechem.2023.100818	9



1. Zachos et al presented a paper on taxonomic disagreement about ranks in grey-area taxa.
2. Netherlands et al submitted an article on repertoire of *Ptychadena uzungwensis* to complement molecular and morphological identification of the species from the Soutpansberg, South Africa.
3. Deacon et al handed in an article on resources and habitat requirements for giraffes' diet selection in the Northwestern Kalahari, South Africa.

Authors	Title	DOI	SDGs
Daniels, RJ D'Amato, ME Lesaoana, M Kasu, M Ehlers, K Chauke, PA Lecheko, P Challis, S Rockett, K Montinaro, F González-Santos, M Capelli, C	Genetic heritage of the Baphuthi highlights an over-ethnicised notion of 'Bushman' in the Maloti-Drakensberg, Southern Africa	10.1016/j.ajhg.2023.03.018	16
Das, KC Vetrík, T	General Gutman index of a graph	10.46793/match.89-3.583D	9
De Campos, TF Vertzyas, N Wolden, M Hewawasam, D Douglas, B McIlhatton, C Hili, J Molnar, C Solomon, MI Gass, GC Mungovan, SF	Orthostatic intolerance-type events following hip and knee arthroplasty: a systematic review and meta-analysis	10.2106/JBJS.22.00600	3
De Gouveia, NAM Jackson, M Joubert, L	A taxonomic revision of <i>Crabbea</i> Harv. (Acanthaceae: Barlerieae) in South Africa	10.1016/j.sajb.2023.02.033	9 15
De Lange, F Netherlands, EC Du Preez, LH	Call repertoire of <i>Ptychadena uzungwensis</i> (Anura: Ptychadenidae) to complement molecular and morphological identification of the species from the Soutpansberg, South Africa	10.1080/21564574.2022.2161015	9 15
Deacon, F Smit, GN Grobbelaar, A	Resources and habitat requirements for giraffes' (<i>Giraffa camelopardalis</i>) diet selection in the Northwestern Kalahari, South Africa	10.3390/ani13132188	15
Deacon, F Smit, GN Grobbelaar, A	Climatic factors affecting seasonal movements of giraffes (<i>Giraffa camelopardalis</i>) in a semi-arid region of South Africa	10.1111/aje.13204	15

Authors	Title	DOI	SDGs
Del Bianco, T Lockwood Estrin, G Tillmann, J Oakley, BF Crawley, D San José Cáceres, A Hayward, H Potter, M Mackay, W Smit, P Du Plessis, C Brink, L Springer, P Odendaal, H Charman, T Banaschewski, T Baron-Cohen, S Bölte, S Johnson, M Murphy, D Buitelaar, J Loth, E Jones, EJH	Mapping the link between socio-economic factors, autistic traits, and mental health across different settings	10.1177/13623613231200297	3 8
Del Prado, A Lynch, J Liu, S Ridoutt, B Pardo, G Mitloehner, F	Animal board invited review: opportunities and challenges in using GWP* to report the impact of ruminant livestock on global temperature change	10.1016/j.animal.2023.100790	13
Dickie, BR Ahmed, Z Arvidsson, J Bell, LC Buckley, DL Debus, C Fedorov, A Floca, R Gutmann, I Van der Heijden, RA Van Houdt, PJ Sourbron, S Thrippleton, MJ Quarles, C Kompan, IN	A community-endorsed open-source lexicon for contrast agent-based perfusion MRI: a consensus guidelines report from the ISMRM Open Science Initiative for Perfusion Imaging (OSIPI)	10.1002/mrm.29840	3
Djilali, S Bentout, S Touaoula, TM Atangana, A	Threshold dynamics for an age-structured heroin epidemic model with distributed delays	10.1002/mma.9275	3
Dlamini, NE Zhou, M	Predicting ratooning ability of sugarcane varieties in selection trials	10.1007/s12355-023-01319-3	2
Dlamini, ZW Vallabhapurapu, S Nambooz, J Wilhelm, A Erasmus, E Swart, MR Vallabhapurapu, VS Mamba, BB	Extraction, chemical, and dual-functional memory and threshold resistive switching characteristics of Elaeodendron buchananii extract	10.1016/j.mtcomm.2023.107159	2
Du Preez, GC Souza Silva, M Fourie, H Girgan, C Netherlands, EC Swart, A Ferreira, RL	Nematode dynamics in an African dolomite cave: what is the role of environmental filtering in spatial and temporal distribution?	10.1016/j.baae.2023.05.002	15
Du Toit, A MacDonald, R Steyn, E Mahlanza, ZP Zulu, AB De Wit, M	Review of the underutilised indigenous Portulacaria afra (spekboom) as a sustainable edible food source	10.3390/agronomy13051206	1 2
Dubec, MJ Buckley, DL Berks, M Clough, A Gaffney, J Datta, A McHugh, DJ Porta, N Little, RA Cheung, S Hague, C Eccles, CL Hoskin, PJ Bristow, RG Matthews, JC Van Herk, M Choudhury, A Parker, GJM McPartlin, A O'Connor, JPB	First-in-human technique translation of oxygen-enhanced MRI to an MR Linac system in patients with head and neck cancer	10.1016/j.radonc.2023.109592	3
Dunn, M Nel, V Van den Berg, HS Huyssteen, E	The application of constructivist grounded theory methodology in an urban planning doctoral thesis	10.1177/16094069231153594	4 11
Dureti, GG Tabe-Ojong, MPJ Owusu-Sekyere, E	The new normal? Cluster farming and smallholder commercialisation in Ethiopia	10.1111/agec.12790	2



1. Roodt et al delivered a paper on the crystal structure of dicarbonyl-(N-nitroso-N-oxido-phenylamine- 20,0)-rhodium(I), C₈H₅N₂O₄Rh.
2. Erasmus et al. submitted a paper on making Eu²⁺- and Sm²⁺-doped borates fit for solar energy applications.

Authors	Title	DOI	SDGs
Dzvene, AR Tesfuhuney, WA Walker, S Ceronio, G	Management of cover crop intercropping for live mulch on plant productivity and growth resources: a review	10.1177/11786221231180079	2 6 8 12
Dzvene, AR Tesfuhuney, WA Walker, S Ceronio, G	Planting time and stand density effect on radiation interception and use efficiency of maize and sunn hemp intercropping in semi-arid South Africa	10.1016/j.agrformet.2023.109690	2 6
Dzvene, AR Tesfuhuney, WA Walker, S Ceronio, G	Optimising the planting time and stand density of sunn hemp intercropping for biomass productivity and competitiveness in a maize-based system	10.1016/j.fcr.2023.109179	2 6 8
Elmakki, MA Gafoor, WA Alexander, OT Venter, JA Roodt, A	The crystal structure of dicarbonyl-(N-nitroso-N-oxido-phenylamine-κ 20,0)-rhodium(I), C ₈ H ₅ N ₂ O ₄ Rh	10.1515/ncrs-2022-0488	9
Elmakki, MA Taoana, TN Jacobs, FJF Venter, JA	The crystal structure of 2-anilino-1,4-naphthoquinone, C ₁₀ H ₁₁ N ₂ O ₂	10.1515/ncrs-2023-0338	9
Eneh, SC Admad, S Nazir, A Onukansi, FO Oluwatobi, A Innocent, DC Ojo, TO	Cholera outbreak in Syria amid humanitarian crisis: the epidemic threat, future health implications, and response strategy – a review	10.3389/fpubh.2023.1161936	1 3 6
Erasmus, LJB Smet, PF Kroon, RE Poelman, D Terblans, JJ Joos, JJ Van der Heggen, D Swart, HC	Making Eu ²⁺ - and Sm ²⁺ -doped borates fit for solar energy applications	10.1021/acsphotonics.2c01571	7
Eskov, KYu Marusik, YM	‘Morphological’ and ‘molecular’ systems of araneoids: an attempt at harmonisation with a subsequent testing of the obtained cladogram using web-building characters (Aranei: Araneoidea)	10.15298/arthscl.32.3.10	9

1. Pohl et al submitted an article on alternative therapy options for pathogenic yeasts: targeting virulence factors with non-conventional antifungals.
2. Esterhuizen et al. contributed an article about the South African Pollen Monitoring Network.
3. Goder-Goldberger et al. submitted an article on Late Middle Palaeolithic occupations in the lower Besor Basin, Negev Desert, Israel.



Authors	Title	DOI	SDGs
Esterhuizen, N Berman, DM Neumann, FH Ajikah, L Quick, LJ Hilmer, E Van Aardt, A John, J Garland, R Hill, T Finch, J Hoek, W Bamford, M Seedat, RY Manjra, AI Peter, J	The South African Pollen Monitoring Network: insights from two years of national aerospora sampling (2019–2021)	10.1002/clt2.12304	11 13
Esyunin, SL Zamani, A Marusik, YM	Redescriptions of two poorly known species of <i>Zodariellum</i> Andreeva and Tystshenko, 1968 (Araneae, Zodariidae) from Uzbekistan	10.52547/jjbs.9.4.703	15
Ezeokoli, OT Nkomo, N Gcilitshana, O Pohl, CH	Alternative therapy options for pathogenic yeasts: targeting virulence factors with non-conventional antifungals	10.1007/978-981-19-9167-7_5	3
Fajobi, O Adeoye, O Fajobi, D Ojo, TO Afolabi, OT	Girls at risk: FGM intentions among in-school adolescents of a rural community in Osun State, Nigeria	10.1080/13625187.2022.2135371	3 5
Fink, L Strobel, S Franke, L Stamminger, M	Efficient rendering for light field displays using tailored projective mappings	10.1145/3585498	9
Fomichev, AA Marusik, YM Zonstein, S	New and poorly known species of <i>Palpimanus</i> Dufour, 1820 (Araneae, Palpimanidae) from Uzbekistan and Tajikistan	10.11646/zootaxa.5339.3.3	15
Fomichev, AA Omelko, MM Marusik, YM	A survey of the Sumatran Ctenidae (Araneae). 1. Two new <i>Acantheis</i> species	10.11646/zootaxa.5353.2.2	15
Gallo, JC De Wet, J Visser, WI Jordaan, HF Schneider, JW	Generalised lichen spinulosus and secondary follicular mucinosis	10.1016/j.jdc.2023.01.017	3

Authors	Title	DOI	SDGs
Ghosh, S Rusyn, I Dmytruk, OV Dmytruk, KV Onyeaka, H Gryzenhout, M Gafforov, Y	Filamentous fungi for sustainable remediation of pharmaceutical compounds, heavy metal and oil hydrocarbons	10.3389/fbioe.2023.1106973	6 15
Goder-Goldberger, M Gilead, I Boaretto, E Edeltin, L Horwitz, LK Jacoby-Glass, Y Lavi, R Neumann, FH Porat, N Toffolo, MB Van Aardt, AC Zilberman, T Crouvi, O	Living in an ecotone: Late Middle Palaeolithic occupations in the lower Besor Basin, North-western Negev Desert, Israel	10.15184/aqy.2023.89	15
Gomo, M	Use of electric potential difference in audio magnetotelluric (AMT) geophysics for groundwater exploration	10.1016/j.gsd.2022.100864	15
Gomo, M	On the use of late-time drawdown in interpreting aquifer pumping test	10.17159/wsa/2023.v49.i1.3984	15
Goredema-Matongera, N Ndhlela, T Van Biljon, A Kamutando, CN Cairns, JE Baudron, F Labuschagne, M	Genetic variation of zinc and iron concentration in normal, provitamin A and quality protein maize under stress and non-stress conditions	10.3390/plants12020270	2
Greyling, C Naudé, L	The fitspiration-effect: fitness identity of emerging adult females on social media	10.36386/sajrsper.v45i2.96	3
Grobler, SM Scholtz, MM Naser, FWC Morey, L Greyling, JPC	Reproductive performance of extensively managed beef heifers mated at 14 or 26 months in the Central Bushveld Bioregion	10.17159/2413-3221/2023/v51n1a11672	2
Grové, B Bezuidenhout, JJ Matthews, N	Farm-level hydroeconomic analysis of alternative water tariff charges using a hybrid solution method	10.1007/s11269-023-03569-y	2 6
Gulumian, M Thwala, M Makhoba, X Wepener, V	Current situation and future prognosis of health, safety and environment risk assessment of nanomaterials in South Africa	10.17159/sajs.2023/11657	3
Haddad, CR Codron, D Venter, C Booysen, R	The unique buckspoor webs of <i>Seothyra</i> optimise silk use and capture efficiency	10.1016/j.jaridenv.2023.105057	15
Halbritter, T Harrabi, R Paul, S Van Tol, J Lee, D Hediger, S Sigurdsson, ST Mentink-Vigier, F De Paëpe, G	PyrroTriPol: a semi-rigid trityl-nitroxide for high field dynamic nuclear polarisation	10.1039/d2sc05880d	9
Hansen, T Du Toit, E Van Rooyen, C Lategan-Potgieter, R	Sociodemographic variables affecting caregivers' attitudes towards the provision of healthy breakfast and lunchboxes to children in their care	10.1080/16070658.2022.2048444	2 3
Harper, DE Gopinath, K Smith, JL Gregory, M Ichescio, E Aronovich, S Harris, RE Harte, SE Clauw, DJ Fleischer, CC	Characterisation of visual processing in temporomandibular disorders using functional magnetic resonance imaging	10.1002/brb3.2916	3
Hasabeldaim, E Swart, HC Kroon, RE	Stability of Y2O3:Tm,Yb phosphor thin films during cathodoluminescence and upconversion	10.1016/j.physb.2023.415417	9

Authors	Title	DOI	SDGs
Hasabeldaim, EHH Swart, HC Coetsee, E Kumar, P Kroon, RE	Degradation and chemical stability of graphitic carbon nitride during ultraviolet light irradiation	10.1016/j.matchemphys.2023.128252	9
Hasabeldaim, EHH Swart, HC Kroon, RE	Luminescence and stability of Tb doped CaF ₂ nanoparticles	10.1039/d2ra07897j	9
Heckeberg, NS Zachos, FE Kierdorf, U	Antler tine homologies and cervid systematics: a review of past and present controversies with special emphasis on <i>Elaphurus davidianus</i>	10.1002/ar.24956	15
Heydari, MH Atangana, A	A numerical method for nonlinear fractional reaction–advection–diffusion equation with piecewise fractional derivative	10.1007/s40096-021-00451-z	9
Hile, DD Swart, HC Motloung, SV Motaung, TE Ahemen, I Koao, LF	Effects of terbium ions on the structural, morphological, and optical properties of zinc selenide thin films prepared by photo-assisted chemical bath method	10.1016/j.tsf.2023.140001	9
Hlabangwane, K Matshitse, R Managa, M Nyokong, T	The application of Sn(IV)Cl ₂ and In(III)Cl porphyrin-dyed TiO ₂ nanofibers in photodynamic antimicrobial chemotherapy for bacterial inactivation in water	10.1016/j.pdpdt.2023.103795	9
Hu, X Zhao, Y Yeganeh, A Shongwe, S	Improved EWMA schemes for monitoring the ratio of two normal random variables	10.1002/qre.3470	9
Hugo-Coetzee, E	Notes on the family Oripodidae (Acari, Oribatida) in South Africa and description of a new species of <i>Cryptoribatula</i> Jacot	10.11158/saa.28.2.18	15
Humane, P Long, S Ferreira, S	A small-scale simulation model of an emergency department	10.21872/2023IISE_1886	3
Hussain Alharthi, N Atangana, A Alkahtani, BS	Study of a cauchy problem of fractional order derivative with variable order fractal dimension	10.1016/j.rinp.2023.106524	9
Hussain, N Ayoub, I Som, S Sharma, V Rubab, S Swart, HC Kumar, V	Synthesis and photoluminescence properties of novel orange-emitting Ba ₂ Gd ₈ (SiO ₄) ₆ O ₂ : Sm ³⁺ phosphors for white LED applications	10.1016/j.physb.2023.415385	7
Idisi, OI Yusuf, TT Owolabi, KM Ojokoh, BA	A bifurcation analysis and model of COVID-19 transmission dynamics with post-vaccination infection impact	10.1016/j.health.2023.100157	3
Ingwani, E Thynell, M Gurure, LR Ekelund, NGA Gumbo, T Schubert, P Nel, V	The impacts of peri-urban expansion on municipal and ecosystem services: experiences from Makhado Biaba town, South Africa	10.1007/s12132-023-09499-7	1 6 11
Ishida, H Saba, R Kokkinopoulos, I Hashimoto, M Yamaguchi, O Nowotschin, S Shiraishi, M Ruchaya, P Miller, D Harmer, S Poliandri, A Kogaki, S Sakata, Y Dunkel, L Tinker, A Hadjantonakis, A-K Sawa, Y Sasaki, H Ozono, K Suzuki, K Yashiro, K	Erratum: GFRA2 identifies cardiac progenitors and mediates cardiomyocyte differentiation in a RET-independent signalling pathway (Cell Reports (2016) 16(4) (1026–1038), (S221112471630804X), (10.1016/j.celrep.2016.06.050))	10.1016/j.celrep.2023.113383	9



1. Ivanov et al. delivered an article on species delimitation and historical connectivity in Holarctic and Arctic-Alpine wolf spiders.
2. Ntwaeaborwa et al delivered a paper on the influence of doping concentration and annealing temperature on the structure, particle morphology, and luminescent properties of powders and pulsed laser-deposited thin films of bismuth-doped lanthanum gallate.

Authors	Title	DOI	SDGs
Ivanov, V Blagoev, G Danflous, S Gajdoš, P Høye, TT Lee, KM Marusik, Y Mielec, CL Muster, C Pétilion, J Spelda, J Mutanen, M	Across mountains and ocean: species delimitation and historical connectivity in Holarctic and Arctic-Alpine wolf spiders (Lycosidae, Pardosa)	10.1093/isd/ixad018	14 15
Jaffar, BM Swart, HC Ahmed, HAAS Yousif, A Kroon, RE Ntwaeaborwa, OM	Influence of doping concentration and annealing temperature on the structure, particle morphology, and luminescent properties of powders and pulsed laser deposited thin films of bismuth-doped lanthanum gallate	10.1016/j.optmat.2023.114291	9
Jaffar, BM Swart, HC Seed Ahmed, HAA Yousif, A Kroon, RE	Luminescence properties of Bi doped LaOF phosphor powder	10.1016/j.optmat.2022.113367	9
Jana, D Chakraborty, N	Probabilistic transition-based optimal energy transaction of a non-convex CHP-microgrid during generation and load uncertainty	10.1080/15325008.2023.2192717	9
Johansson, E Kuktaite, R Labuschagne, M Lama, S Lan, Y Nakimbugwe, D Repo-Carrasco-Valencia, R Tafesse, F Tesfaye, K Vazquez, D	Adaptation to abiotic stress factors and their effects on cereal and pseudocereal grain quality	10.1016/B978-0-323-90566-4.00001-1	2
Jonker, D Melly, B Brink, LT Odendaal, HJ Stein, DJ Donald, KA	Associations between prenatal alcohol and tobacco exposure on Doppler flow velocity waveforms in pregnancy: a South African study	10.1186/s12884-023-05881-2	3

1. Jose Moises and Kunguma turned in a paper on improving flood early warning systems in Kabbe, Namibia.
2. Brink et al presented a paper on spectroscopic, X-ray crystallographic, and preliminary biological screening study of unsymmetrical diphosphinoamine (PNP') and monodentate aminophosphine (PNH) ligands coordinated to Pt(II).



Authors	Title	DOI	SDGs
Jordaan, BJ Du Preez, LH Netherlands, EC	Taxonomic re-evaluation of African anuran trypanosomes with the redescription and molecular diagnosis of <i>Trypanosoma</i> (<i>Trypanosoma</i>) <i>nelspruitense</i> Laveran, 1904 and <i>Trypanosoma</i> (<i>Haematomonas</i>) <i>grandicolor</i> Pienaar, 1962	10.1017/S0031182023000203	15
Jordaan, BJ Van As, J Netherlands, EC	Morphological and molecular diagnosis of two new species of <i>Trypanosoma</i> Gruby, 1843 infecting South African cordylid lizards (<i>Squamata</i> : <i>Cordylidae</i> : <i>Cordylinae</i>), <i>Trypanosoma</i> (<i>Squamatrypanum</i>) <i>ndumoensis</i> n. sp. and <i>Trypanosoma</i> (<i>Trypanosoma</i>) <i>tokoloshi</i> n. sp.	10.1111/jeu.12970	15
Jose Moises, D Kunguma, O	Improving flood early warning systems in Kabbe, Namibia: a situational analysis approach	10.1016/j.ijdr.2023.103765	1 11
Jurgens, C Smit, MH Van der Walt, JL	Die rapportering van beserings in meganiiese tegnologie skoolwerkwinkels met die oog op die skep van 'n geborgheidsruimte vir die leerders	10.19108/KOERS.88.1.2549	4 8
Kahouadji, B Mebarki, L Benharrat, L Prakash, J Swart, HC Zoukel, A Ouhenia, S Lyes, L Guerbous, L Poelman, D	Flexible and luminescent polymer nanocomposite films (YPO4:Pr3+/polystyrene): investigation of structural, morphological, and photoluminescence properties for solid-state lighting applications	10.1016/j.optmat.2023.114251	9

Authors	Title	DOI	SDGs
Kailuke, MS Pawade, VB Dhoble, SJ Koao, LF	Spectroscopy of Ln ³⁺ -doped SrAl ₂ Si ₂ O ₈ nanocrystalline phosphor	10.1007/s12596-023-01417-1	9
Kajimo-Shakantu, K Amoah, C	Challenges of the social housing dwellers	10.14455/ISEC.2023.10(1).HOS-07	10 11
Kama, DV Frei, A Twigge, L Brink, A Alberto, R Roodt, A	Spectroscopic, X-ray crystallographic and preliminary biological screening study of unsymmetrical diphosphinoamine (PNP') and monodentate aminophosphine (PNH) ligands coordinated to Pt(II)	10.1016/j.ica.2023.121656	9
Kamari, M Kumar, N Motaung, DE Issaoui, N Kumar, S Rani, G	Nanosensors for crop protection	10.1016/B978-0-323-91703-2.00003-8	2 3 9 13
Kandpal, SC Otukile, KP Jindal, S Senthil, S Matthews, C Chakraborty, S Moskaleva, LV Ramakrishnan, R	Stereo-electronic factors influencing the stability of hydroperoxyalkyl radicals: transferability of chemical trends across hydrocarbons and ab initio methods	10.1039/d3cp03598k	9
Karaagac, B Esen, A Owolabi, KM Pindza, E	A collocation method for solving time fractional nonlinear Korteweg–de Vries–Burgers equation arising in shallow water waves	10.1142/S0129183123500961	9
Karaagac, B Esen, A Owolabi, KM Pindza, E	A trigonometric quintic B-spline basis collocation method for the KdV–Kawahara equation	10.1134/S1995423923030035	9
Karaagac, B Owolabi, KM	Numerical analysis of polio model: a mathematical approach to epidemiological model using derivative with Mittag–Leffler Kernel	10.1002/mma.7607	3
Karaagac, B Owolabi, KM	A numerical investigation of marriage divorce model: fractal fractional perspective	10.1016/j.sciaf.2023.e01874	3
Karaagac, B Owolabi, KM Pindza, E	A computational technique for the Caputo fractal-fractional diabetes mellitus model without genetic factors	10.1007/s40435-023-01131-7	3
Kaya, RS Zamani, A Yağmur, EA Marusik, YM	A new genus of Textricini Lehtinen, 1967 (Araneae, Agelenidae) from Anatolia	10.3897/zookeys.1151.100430	15
Kaya, RS Zamani, A Yağmur, EA Marusik, YM	A new species of Anatextrix Kaya, Zamani, Yağmur & Marusik, 2023 (Araneae, Agelenidae, Textricini) from southern Türkiye, with a remarkable morphology of the male palpal femur	10.3897/ZSE.99.103893	15
Keet, JJ Roelofse, F Gauert, CDK Iaccheri, LM Grobler, DF Ueckermann, H	Neodymium isotope variations in the Flatreef on Macalacaskop, northern limb, Bushveld Complex	10.1007/s00126-023-01202-x	14
Kgari, RD Muller, CJC Dzama, K Makgahlela, ML	Genetic and phenotypic trends for female fertility traits derived from service records of South African Holstein cattle	10.4314/sajas.v53i4.14	2

Authors	Title	DOI	SDGs
Kgomo, MB Shingange, K Nemufulwi, MI Swart, HC Mhlongo, GH	Belt-like In2O3 based sensor for methane detection: influence of morphological, surface defects and textural behaviour	10.1016/j.materresbull.2022.112076	9
Kgomo, MB Shingange, K Swart, HC Mhlongo, GH	Evolution of In2O3 morphology from belt to fibrous-like structure for ethanol detection at low working temperature induced by Cr-addition	10.1016/j.apsusc.2023.158210	9
Khan, MA Atangana, A	Numerical methods for fractal-fractional differential equations and engineering: simulations and modelling	10.1201/9781003359258	9
Khasapane, NG Byaruhanga, C Thekiso, O Nkhebenyane, SJ Khumalo, ZTH	Prevalence of subclinical mastitis, its associated bacterial isolates and risk factors among cattle in Africa: a systematic review and meta-analysis	10.1186/s12917-023-03673-6	2
Khasapane, NG Khumalo, ZTH Kwenda, S Nkhebenyane, SJ Thekiso, O	Characterisation of milk microbiota from subclinical mastitis and apparently healthy dairy cattle in Free State province, South Africa	10.3390/vetsci10100616	2
Khetsha, ZP Sedibe, MM Pretorius, RJ Van Der Watt, E	Biostimulants improve the leaf micro-morphology and essential oil biosynthesis of simulated hail-damaged Pelargonium graveolens (L'Hér.)	10.17660/ActaHortic.2023.1372.37	15
Kim, JH Sebolai, OM Dzhavakhiya, V	Editorial: Use of chemosensitisation to augment efficacy of antifungal agents, Volume II	10.3389/ffunb.2023.1275400	15
Kinge, TR Jefwa, JM Houdanon, RD Kamalebo, HM Abdel-Azeem, AM Gryzenhout, M Triebel, D Weibulat, T Rambold, G	Management and publication of scientific data on traditional mycological and lichenological knowledge in Africa	10.1017/S0024282923000294	7 11
Klebanoff, MA Schuit, E Lamont, RF Larsson, P-G Odendaal, HJ Ugwumadu, A Kiss, H Petricevic, L Andrews, WW Hoffman, MK Shennan, A Seed, PT Goldenberg, RL Emel, LM Bhandaru, V Weiner, S Larsen, MD	Antibiotic treatment of bacterial vaginosis to prevent preterm delivery: systematic review and individual participant data meta-analysis	10.1111/ppe.12947	3
Koca, I Atangana, A	Theoretical and numerical analysis of a chaotic model with nonlocal and stochastic differential operators	10.11121/ijocta.2023.1398	9
Kooverjee, BB Soma, P Van der Nest, MA Scholtz, MM Neser, FWC	Copy number variation discovery in South African Nguni-sired and Bonsmara-sired crossbred cattle	10.3390/ani13152513	2 8
Kosyan, A Zamani, A Marusik, YM	Notes on Dysderidae (Arachnida, Araneae) of Armenia and Iran, with new species and records	10.3897/zookeys.1172.107112	15
Kotzé, J Mc Lean, C Van Tol, J	Digitally mapping soil carbon of the uThukela headwater catchment in the Maloti-Drakensberg, a remote Afromontane mountain region	10.1080/03736245.2023.2272896	15



1. *Sebolai et al delivered an editorial: Use of chemosensitisation to augment efficacy of antifungal agents, Volume II.*
2. *Kotzé et al. presented an article on digitally mapping soil carbon in the uThukela headwater catchment, Maloti-Drakensberg.*

Authors	Title	DOI	SDGs
Krasnov, BR Khokhlova, IS Kiefer, MS Kiefer, D Lareschi, M Matthee, S Sanchez, JP Shenbrot, GI Stanko, M Van der Mescht, L	Multi-site interaction turnover in flea–mammal networks from four continents: application of zeta diversity concept and multi-site generalised dissimilarity modelling	10.1111/een.13236	15
Krishnan, R Swart, HC	Upconversion luminescence materials for latent fingerprint detection applications in Forensic Science	10.1007/978-981-99-3913-8_17	9
Krishnan, R Swart, HC	Recent progress in phosphor technology	10.1016/B978-0-323-90539-8.00015-2	9
Kühn, J Deacon, F Purcell, W Visser, HG Schutte-Smith, M	Extremely high levels of thallium in the natural diet and drinking water of giraffes (<i>Giraffa camelopardalis giraffa</i>)	10.1016/j.envadv.2023.100430	3 6 11 14 15
Kumar, I Kumar, A Kumar, S Nair, GB Swart, HC Gathania, AK	Simultaneous realisation of FIR-based multimode optical thermometry and photonic molecular logic gates in Er ³⁺ and Yb ³⁺ co-doped SrTiO ₃ phosphor	10.1088/1402-4896/acfa2b	9
Kumar, P Mathpal, MC Dhyani, R Srivastava, RC Soler, MAG Maze, J Swart, HC	Optical behaviour of ferrite nanoparticles and thin films	10.1016/B978-0-12-823717-5.00022-X	9
Kumar, P Mathpal, MC Inwati, GK Kumar, S Duvenhage, M-M Roos, WD Swart, HC	Study of defect-induced chemical modifications in spinel zinc-ferrites nanostructures by in-depth XPS investigation	10.3390/magnetochemistry9010020	9

1. Labuschagne et al. submitted a paper on factors affecting durum wheat bread loaf volume and alveograph characteristics under optimal, drought, and heat stress
2. Lian et al submitted an article on the method for extracting the intrinsic diffusion coefficient from grain boundary diffusion depth profiles.
3. Swart et al delivered an article on mechanism, properties, and applications of phosphors.



Authors	Title	DOI	SDGs
Kumar, S Das, A Kasala, K Ridoutt, B Patan, EK Bogard, J Ravula, P Pramanik, S Lim-Camacho, L Swamikannu, N	Assessing the rural food environment for advancing sustainable healthy diets: insights from India	10.1016/j.jafr.2023.100588	2
Kumar, S Das, A Kasala, K Ridoutt, BG	Shaping food environments to support sustainable healthy diets in low and middle-income countries	10.3389/fsufs.2023.1120757	2 8 12
Kumar, V Etefa, HF Jule, LT Swart, HC	Mechanism, properties, and applications of phosphors	10.1016/B978-0-323-90539-8.00018-8	7
Kumar, V Prakash, J Pathak, D Sharma, DP Purohit, LP Swart, HC	Ion beam engineering of implanted ZnO thin films for solar cell and lighting applications	10.1016/j.ceja.2023.100501	7
Labuschagne, M Guzmán, C Crossa, J Van Biljon, A	Determining factors of durum wheat bread loaf volume and alveograph characteristics under optimal, drought and heat stress conditions	10.1016/j.jcs.2023.103791	2 13
Laksaci, N Boudaoui, A Al-Mekhlafi, SM Atangana, A	Mathematical analysis and numerical simulation for fractal-fractional cancer model	10.3934/MBE.2023803	3
Latypov, R Chistyakova, S Kaufmann, FED Roelofse, F Kruger, W Barnes, SJ Magson, J Nicholson, M	The use of An-content of interstitial plagioclase for testing slurry models for the origin of Bushveld massive chromitites	10.1016/j.lithos.2023.107374	9

Authors	Title	DOI	SDGs
Lee, C Lee, S Kim, H-S Kittaka, S Kohama, Y Sakakibara, T Lee, KH Van Tol, J Gorbunov, DI Do, S-H Yoon, S Berlie, A Choi, K-Y	Random singlets in the $s=5/2$ coupled frustrated cubic lattice $\text{LuSb}_3\text{Mn}_2\text{O}_{14}$	10.1103/PhysRevB.107.214404	9
Leordean, R Ozunu, A Török, Z	Preventive and predictive maintenance of ammonium nitrate granulation process based on preliminary hazard analysis technique	10.24193/subbchem.2023.1.19	9
Li, Y Xiong, P Lou, B Swart, HC Ma, C Xia, Z	Near-infrared emission in perovskite oxides $\text{MZrO}_3\text{:Bi}$ ($\text{M} = \text{Ba}, \text{Sr}$) by dopants' selective site occupancy	10.1016/j.jlumin.2022.119659	9
Lian, S Fourie, AJ Wang, J Swart, HC Terblans, JJ	Method for extracting the intrinsic diffusion coefficient from grain boundary diffusion depth profile	10.1116/6.0002400	9
Lien, AM Banki, O Barik, SK Buckridge, JS Christidis, L Cigliano, MM Conix, S Costello, MJ Hobern, D Kirk, PM Kroh, A Montgomery, N Nikolaeva, S Orrell, TM Pyle, RL Raz, L Thiele, K Thomson, SA Van Dijk, PP Wambiji, N Whalen, A Zachos, FE Zhang, Z-Q Garnett, ST	Widespread support for a global species list with a formal governance system	10.1073/pnas.2306899120	15
Linde, DA Marle-Köster, E Scholtz, MM Gonda, MG Gonzalez-Hernandez, JL Macneil, MD	Differential gene expression in the Longissimus dorsi of Nguni and Bonsmara bulls finished on low and high energy diets	10.4314/sajas.v53i1.11	2 15
Lombard, M Van Aardt, A	Method for generating foodplant fitness landscapes: with a foodplant checklist for Southern Africa and its application to Klasies River Main Site	10.1016/j.jas.2022.105707	15
Ma, W Owusu-Sekyere, E	Factors influencing smartphone usage of rural farmers: empirical analysis of five selected provinces in China	10.1177/02666669231201828	2 8 9
Ma, W Vatsa, P Owusu-Sekyere, E Zhou, X Owusu, V	Does income diversity really stimulate household consumption expenditure diversity? Evidence from mean-based and unconditional quantile regressions	10.1080/00036846.2022.2159012	12
Mabuea, BP Erasmus, E Swart, HC	Molybdenum-Tungsten carbides based electrocatalysts for hydrogen evolution reaction	10.1080/14786451.2023.2176700	7 9
Macdonald, JF Einkamerer, OB Hugo, A Lepori, A Fair, MD	The effect of fibre source in finishing diets on lamb performance and muscle fatty acid composition	10.4314/sajas.v53i2.15	2 15
Madende, P Henning, JIF Jordaan, H	Accounting for heterogeneity among youth: a missing link in enhancing youth participation in agriculture – a South African case study	10.3390/su15064981	1 2 4 5 8 10

Authors	Title	DOI	SDGs
Madu, UL Ogundeji, AO Pohl, CH Albertyn, J Sebolai, OM	Primaquine, an antimalarial drug that controls the growth of cryptococcal cells	10.1016/j.mycmed.2023.101361	3
Maebana, LM Motsoeneng, RG Tshabalala, ZP Swart, HC Cummings, FR Jozela, M Nkosi, SS Motaung, DE	Low-operational temperature for selective detection of xylene gas using a p-n CuO-ZnO heterostructure-based sensor	10.1016/j.jallcom.2023.170683	9
Maebana, LM Tshabalala, ZP Swart, HC Leshabane, N Erasmus, LJB Motaung, DE	Comparison study on ZnO and CuO gas sensing characteristics: temperature modulated-dual selectivity towards benzene and xylene vapours	10.1016/j.matchemphys.2023.127352	9
Mafa, MS Lebusa, N Gumani, TF Kemp, G Visser, B Boshoff, WHP Castelyn, HD	Accumulation of complex oligosaccharides and CAZymes activity under acid conditions constitute the Thatcher+Lr9 defence responses to Puccinia triticina	10.1007/s11756-023-01405-7	2
Mafa, MS Visser, B Boshoff, WHP Kemp, G Alexander, O Castelyn, HD	Flagging defensive roles of carbohydrate-active enzymes (CAZymes) and carbohydrates during Puccinia triticina-wheat interactions	10.1016/j.pmpp.2023.101947	2
Magson, J Roelofse, F Bybee, G Bolhar, R	Constraints on the Nd-isotopic composition and nature of the last major influx of magma into the Bushveld Complex	10.1007/s00410-023-01996-z	7
Mahlanza, ZP De Wit, M Hugo, A Du Toit, A	The physicochemical and nutritional value of fresh and processed Portulacaria afra (Spekboom) leaves	10.3390/agronomy13030709	2 9 13
Mahlobo, T Dube, N Zachariades, C Munyai, TC	Impact of the gall-inducing fly Polymorphomyia basilica Snow (Diptera: Tephritidae) on the growth and reproduction of Chromolaena odorata (L.) R.M.King & H.Rob (Asteraceae) in the laboratory	10.1007/s11829-023-09985-6	2
Maier, DIH Bezuidenhout, BCB Marais, C	Strategies in the synthesis of dibenzo[b,f]heteropines	10.3762/bjoc.19.51	7
Makgwane, PR Kumar, N Motaung, DE	Renewable biofuels additives blending chemicals	10.1016/B978-0-323-91759-9.00009-5	7 9 13
Makhanya, MS	Memorialisation as a force for radical transformation: the case of freedom park in South Africa	-	16
Makhubu, T Moyo, H Mugwedi, L Belle, J	Perceptions of environmental impacts of artisanal coal mining vis-à-vis the scientific reality: a case of a community in South Africa's KwaZulu-Natal Province	10.1080/13549839.2023.2279543	1 6 16
Makofane, A Motaung, DE Hintsho-Mbita, NC	Green synthesis of metal ferrite nanoparticles for the photocatalytic degradation of dyes in wastewater	10.1002/9781394167289.ch4	6 7 9
Makole, R Tshabalala, ZP Jozela, M Cummings, FR Swart, HC Motaung, DE	Facile synthesis of high surface area of p-n Co3O4-In2O3 heterostructure-based sensor for improved xylene detection at low temperature	10.1016/j.inoche.2023.111652	9



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1. Mafa et al. provided an article on the defensive roles of carbohydrate-active enzymes (CAZymes) and carbohydrates in *Puccinia triticina*-wheat interactions.
2. Makoni and Chikobvu submitted a paper on forecasting the long-term impact of the global financial crisis on new car sales in South Africa.

Authors	Title	DOI	SDGs
Makoni, T Chikobvu, D	Assessing and forecasting the long-term impact of the global financial crisis on manufacturing sales in South Africa	10.3390/economies11060158	8 9 10
Makoni, T Chikobvu, D	Evaluating and predicting the long-term impact of the COVID-19 pandemic on manufacturing sales within South Africa	10.3390/su15129342	3 9
Makoni, T Chikobvu, D	Assessing and forecasting the long-term impact of the global financial crisis on new car sales in South Africa	10.3390/data8050078	9
Makumbane, V Yagoub, MYA Xia, Z Kroon, RE Swart, HC	Up-conversion luminescence and optical temperature sensing behaviour of Y2O3:Ho3+, Yb3+ phosphors	10.3390/cryst13081288	9
Malevu, TD Ocaya, RO Soonmin, H Nhlapo, TA	Metal halide perovskite photocatalysts: recent progress, challenges, and future directions	10.1080/10408436.2023.2225238	7 9
Manenzhe, TD Zwane, EM Van Niekerk, JA	Identifying the causes of failure in the communal property associations (CPAs), state owned and household farms	10.17159/2413-3221/2023/v51n3a13351	1 2 4 8
Maphiri, VM Melato, LT Mhlongo, MR Hlatshwayo, TT Motaung, TE Koao, LF Motloung, SV	Effects of varying Alx moles on structure and luminescence properties of ZnAlxO1.5x+1:0.1 mol% Tb3+ nanophosphors prepared using citrate sol-gel method	10.1016/j.jre.2022.04.026	9

1. Minnaar-Ontong et al presented a paper on phenotypic, genotypic, and nutritional divergence in cowpea, with implications for drought tolerance breeding—a review.
2. Matlhoko et al. contributed an article on the effectiveness of traditional wool scouring for small-scale farmers in South Africa, focusing on detergents and scouring time.



Authors	Title	DOI	SDGs
Marais, G Hardie, D Brink, A	A case for investment in clinical metagenomics in low-income and middle-income countries	10.1016/S2666-5247(22)00328-7	3
Mariadhas, J Jeeva Panchu, S Swart, HC Rani Rosaline, D Murugadoss, G Govindarajan, D Kheawhom, S Stephen Rajkumar Inbanathan, S Bokhari, A Chuah, LF	Microwave assisted green synthesis of Ag doped CuO NPs anchored on GO-sheets for high performance photocatalytic and antimicrobial applications	10.1016/j.jiec.2023.08.002	7 9
Maritz, ECM Vetrík, T	On the partition dimension of directed circulant graphs	10.1080/09720529.2019.1694739	9
Martin, CD Ruiz, M Sorrell, A Sears, SF McCarrick, G Bates, MJ Degner, BC	Aortic disease 101: Breaking down myths of type A aortic dissection for patients and families	10.1177/00178969231203137	3
Martin, LF Codron, D Winkler, DE Tütken, T Hatt, J-M Clauss, M	Macroscopic dental measures in guinea pigs (<i>Cavia porcellus</i>) fed natural and pelleted diets of different abrasiveness: implications for wear and compensatory growth in a hypselodont species	10.1098/rsif.2023.0012	15
Martinez, R Jackson, CE Üngör, I Van Tol, J Zdrozny, JM	Impact of ligand chlorination and counterion tuning on high-field spin relaxation in a series of V(IV) complexes	10.1039/d3dt01274c	15

Authors	Title	DOI	SDGs
Marusik, YM	On several family group names and a senior authorship in two spider families (Arachnida: Aranei)	10.15298/arthsels.32.3.12	15
Marusik, YM	A new species related to <i>Pardosa atrata</i> (Araneae, Lycosidae) from Armenia makes the distribution range of the <i>atrata</i> group disjunctive	10.3897/zookeys.1180.111069	15
Marusik, YM	New data on spiders and harvestmen (Arachnida: Aranei and Opiliones) of Shantar Island in the Sea of Okhotsk, Russia	10.25221/fee.484.3	15
Marusik, YM	A new genus of Araneoid spiders (Aranei: Araneoidea) from Northern India	10.25221/fee.489.1	15
Marusik, YM	'Epigyne' vs. 'epigynum' revisited	10.15298/arthsels.32.2.09	15
Marusik, YM Szűts, T	On three dubious <i>Thanatus</i> species described by Władysław Kulczyński from Siberia (Aranei: Philodromidae)	10.15298/ARTHSEL.32.1.09	15
Marusik, YM Zonstein, SL Koponen, S	First description of <i>Cedicoides pavlovskyi</i> female (Aranei: Trionycha) and comments on taxonomic placement of <i>Cedicus</i> and related genera	10.15298/ARTHSEL.32.1.10	15
Masemola, BM Gerrano, AS Labuschagne, M Minnaar-Ontong, A Mbuma, NW	Phenotypic, genotypic and nutritional divergence in cowpea and implications for drought tolerance breeding: a review	10.1071/CP22295	2 13
Mathebula, M	Affective dimensions and the psychosocial work performed by naked body protests	10.1080/14742837.2023.2233908	3
Mathebula, M Canham, H	The affective afterlife of naked body protests	10.1177/09593535221120482	3
Matlhoko, KS Vermaas, JF Cronjé, N Van der Merwe, S	Assessing the effectiveness of traditional wool scouring for small-scale farmers in South Africa: a study on detergents and scouring time	10.1108/RJTA-02-2023-0017	1 2 9
Matongera, N Ndhlela, T Van Biljon, A Kamutando, CN Labuschagne, M	Combining ability and testcross performance of multi-nutrient maize under stress and non-stress environments	10.3389/fpls.2023.1070302	2
Matongera, N Ndhlela, T Van Biljon, A Labuschagne, M	Genotype x environment interaction and yield stability of normal and biofortified maize inbred lines in stress and non-stress environments	10.1080/23311932.2022.2163868	2
Matongera, N Ndhlela, T Van Biljon, A Labuschagne, M	Predicting zinc-enhanced maize hybrid performance under stress conditions	10.1002/fes3.479	2
Matova, PM Kamutando, CN Warburton, ML Williams, WP Magorokosho, C Shimelis, H Labuschagne, M Day, R Gowda, M	New techniques for breeding maize (<i>Zea mays</i>) varieties with fall armyworm resistance and market-preferred traits for sub-Saharan Africa	10.1111/pbr.13063	2 9 13

Authors	Title	DOI	SDGs
Matowane, GR Ramorobi, LM Mashele, SS Bonnet, SL Noreljaleel, AEM Swain, SS Makhafola, TJ Chukwuma, CI	Novel caffeic acid-zinc acetate complex: studies on promising anti-diabetic and antioxidative synergism through complexation	10.2174/1573406418666220620144601	3
Matthee, CA Bierman, A Krasnov, BR Matthee, S Van der Mescht, L	Documenting the microbiome diversity and distribution in selected Ctenocephalides fleas from Southern Africa	10.1017/S0031182023000835	3
Matthews, N Grové, B	Economic evaluation of increased nitrogen fertiliser prices on risk-efficient fertiliser applications	10.1177/00307270231194080	2 12
Maugan, L-H Rostellato, R Tribout, T Mattalia, S Ducrocq, V	Combined single-step evaluation of functional longevity of dairy cows including correlated traits	10.1186/s12711-023-00839-6	2 15
Mbande, A Mutamiswa, R Chidawanyika, F	Ontogenetic responses of physiological fitness in <i>Spodoptera frugiperda</i> (Lepidoptera: Noctuidae) in response to repeated cold exposure	10.1017/S0007485323000111	2 13 15
Mbande, A Mutamiswa, R Chidawanyika, F	Thermal tolerance in <i>Spodoptera frugiperda</i> : influence of age, sex, and mating status	10.1016/j.sciaf.2023.e01911	15
Mbande, A Mutamiswa, R Nyamukondiwa, C Chidawanyika, F	Contrasting effects of acute heat shock on physiological and ecological performance of the fall armyworm	10.1111/eea.13310	13 15
Mc Carlie, SJ Belter, B Van Zyl, M-L Beauzec, D Boucher-Van Jaarsveld, CE Bragg, RR	Biosecurity and disinfectant resistance in a post-antibiotic era	10.1007/978-3-031-23796-6_10	3
McCarlie, SJ Boucher, CE Bragg, RR	Genomic islands identified in highly resistant <i>Serratia</i> sp. HRI: a pathway to discover new disinfectant resistance elements	10.3390/microorganisms11020515	3
McCarlie, SJ Du Preez, LL Hernandez, JC Boucher, CE Bragg, RR	Transcriptomic signature of bacteria exposed to benzalkonium chloride	10.1016/j.resmic.2023.104151	3
McCarlie, SJ Steyn, L Du Preez, LL Boucher, CE Hernandez, JC Bragg, RR	The hormetic effect observed for benzalkonium chloride and didecyltrimethylammonium chloride in <i>Serratia</i> sp. HRI	10.3390/microorganisms11030564	3
Mehare, MD Mehare, CM Swart, HC Dhoble, SJ	Recent development in colour tunable phosphors: a review	10.1016/j.pmatsci.2022.101067	9
Meintjes, PJ Madzime, ST Kaplan, Q Van Heerden, HJ	Spun-up rotation-powered magnetised white dwarfs in close binaries as possible gamma-ray sources: signatures of pulsed modulation from AE Aquarii and AR Scorpii in Fermi-LAT data	10.3390/galaxies11010014	7
Mekonnen, TW Ceronio, G Labuschagne, M	The influence of planting window on yield stability of maize genotypes in semi-arid areas	10.1016/j.sajb.2023.11.007	2



1. Maugan et al. submitted an article on single-step evaluation of functional longevity in dairy cows, including correlated traits.
2. O'Neill et al submitted a paper on *Candida albicans*-enteric viral interactions, focusing on the prostaglandin E2 connection and host immune responses.

Authors	Title	DOI	SDGs
Mekonnen, TW Van Biljon, A Ceronio, G Labuschagne, M	Effects of planting date, environments and their interaction on grain yield and quality traits of maize hybrids	10.1016/j.heliyon.2023.e21660	2
Mengistu, AG Tesfuhuney, WA Woyessa, YE Steyn, AS	Potential distribution of selected invasive alien plants under current and future climate change scenarios in South Africa	10.1016/j.heliyon.2023.e19867	13 15
Mengistu, AG Woyessa, YE Tesfuhuney, WA Steyn, AS Lee, SS	Assessing the impact of climate change on future extreme temperature events in major South African cities	10.1007/s00704-023-04712-w	11 13
Mensah-Darkwa, K Ocaya, RO Al-Sehemi, AG Yeboah, D Dere, A Al-Ghamdi, AA Gupta, RK Yakuphanoglu, F	Optoelectronic enhancement of ZnO/p-Si Schottky barrier photodiodes by (Sn,Ti) co-doping	10.1016/j.physb.2023.415155	9
Mikhailov, KG Marusik, YM	Nomenclatorial and taxonomic notes on poorly known spiders (Arachnida: Aranei) from Siberia and Middle Asia	10.15298/arthscl.32.2.08	15
Miller, DC Lisowski, P Genehr, C Wanker, EE Priller, J Prigione, A Diecke, S	Generation of an induced pluripotent stem cell line from a Huntington's disease patient with a long HTT-PolyQ sequence	10.1016/j.scr.2023.103056	3
Mioduchowska, M Konecka, E Goldyn, B Pinceel, T Brendonck, L Lukić, D Kaczmarek, Ł Namiotko, T Zajac, K Zajac, T Jastrzębski, JP Bartoszek, K	Playing peekaboo with a master manipulator: metagenetic detection and phylogenetic analysis of Wolbachia supergroups in freshwater invertebrates	10.3390/ijms24119400	14
Mochochoko, BM Pohl, CH O'Neill, HG	<i>Candida albicans</i> -enteric viral interactions – the prostaglandin E2 connection and host immune responses	10.1016/j.isci.2022.105870	3

1. Motsei et al (with 2. Ocaya) submitted an article on composite super-capacitor/ Na-ion battery, featuring self-healing Fe-Cr alloy electrodes.
2. Prof Richard Ocaya.
3. Mudau et al. submitted an article on modeling the CSIR's long-term electricity least-cost proposition.



Authors	Title	DOI	SDGs
Modise, TJ Maleka, MF Fouché, H Coetzer, GM	Genetic diversity and differentiation of South African cactus pear cultivars (<i>Opuntia</i> spp.) based on simple sequence repeat (SSR) markers	10.1007/s10722-023-01629-1	2
Mofokeng, SJ Mokoena, TP Noto, LL Nhlapo, TA Sithole, MJ Motaung, DE Mhlongo, MR	ZnO-based phosphors materials	10.1007/978-981-99-4145-2_3	9
Mofokeng, SJ Molefe, FV Kroon, RE Swart, HC Mokoena, TP Dhlamini, MS Sithole, MJ Noto, LL	Substrate temperature dependence of structure and optical properties of ZnTiO ₃ :Er ³⁺ /Yb ³⁺ thin films synthesised by pulsed laser deposition	10.1016/j.heliyon.2023.e16259	9
Mohi Ud Din, L Mushtaq, U Ayoub, I Sharma, V Swart, HC Kumar, V	Luminescence properties of ZrO ₂ : Dy ³⁺ phosphor for solid-state lighting applications	10.1016/j.physb.2023.415459	9
Moisés, DJ Kunguma, O	Strengthening Namibia's flood early warning system through a critical gap analysis	10.3390/su15010524	11 13
Mokoena, M Koao, LF Dejene, BF Tshabalala, KG Motloun, SJ	Structure, morphology, and optical properties of lanthanide orthovanadate powders prepared by chemical bath deposition	10.1016/j.mtcomm.2022.105001	9
Mokoena, NZ Steyn, H Hugo, A Dix-Peek, T Dickens, C Gcilitshana, OMN Sebolai, O Albertyn, J Pohl, CH	Eicosapentaenoic acid influences the pathogenesis of <i>Candida albicans</i> in <i>Caenorhabditis elegans</i> via inhibition of hyphal formation and stimulation of the host immune response	10.1007/s00430-023-00777-6	3

Authors	Title	DOI	SDGs
Mokoena, TP Swart, HC Nhlapo, TA Mofokeng, SJ Malevu, TD Mhlongo, MR Motaung, DE	Influence of exposure time and bias voltage on the response kinetics of toluene vapour on Ho ₃ + -doped NiO chemiresistive sensors: yellow-emitter nanophosphors	10.1016/j.inoche.2023.111378	9
Moloantoa, K Khetsha, Z Mochane, M Unuofin, J Atangana, A Cason, E Van Heerden, E Castillo, J	Evaluating the effects of pH and temperature on sulphate-reducing bacteria and modelling of their effects in stirred bioreactors	10.1080/26395940.2023.2257388	6 15
Moloantoa, KM Khetsha, ZP Kana, GEB Maleke, MM Van Heerden, E Castillo, JC Cason, ED	Metagenomic assessment of nitrate-contaminated mine wastewaters and optimization of complete denitrification by indigenous enriched bacteria	10.3389/fenvs.2023.1148872	6 13 15
Moloise, SD Matamanda, AR Bhanye, JI	Traditional ecological knowledge and practices for ecosystem conservation and management: the case of savanna ecosystem services in Limpopo, South Africa	10.1080/13504509.2023.2249856	15
Morakaladi, MIC Atangana, A	Mathematical model for conversion of groundwater flow from confined to unconfined aquifers with power law processes	10.1515/geo-2022-0446	9
Morakaladi, MIC Atangana, A	Model of conversion of flow from confined to unconfined with the generalized Mittag-Leffler process	10.1016/j.jafrearsci.2022.104753	9
Motente, MA Venter, J Brink, A	(N-Benzoyl-N-phenylhydroxylaminato)carbonyl(triphenylarsine)rhodium(II)	10.1107/S2414314623003553	9
Motsei, T Tshabalala, KG Ocaya, RO	Composite super-capacitor/Na-ion battery with self-healing Fe-Cr alloy electrodes	10.1016/j.physb.2023.415384	7
Motsepa, CM Malela-Majika, J-C Castagliola, P Shongwe, SC	Double sampling monitoring schemes: a literature review and some future research ideas	10.1080/03610918.2021.1939375	9
Motsoeneng, RG Swart, HC Motaung, DE	The influence of Fe loading on the optical and gas sensing characteristics of SnO ₂ /ZnO heterostructures	10.1016/j.physb.2023.415256	9
Mpeta, LS Sen, P Matshitse, R Nyokong, T	Nanocomposite of nickel phthalocyanine nanoparticles and detonation nanodiamonds for enhanced electrocatalysis	10.1016/j.diamond.2023.110424	9
Mubayiwa, M Machekano, H Chidawanyika, F Mvumi, BM Segaiso, B Nyamukondiwa, C	Sub-optimal host plants have developmental and thermal fitness costs to the invasive fall armyworm	10.3389/fnsc.2023.1204278	2 15
Mudau, UB Senatla, M Mulaba-Bafubiandi, AF Meyer, J	Modelling CSIR long-term electricity least-cost proposition	10.1109/SAUPEC57889.2023.10057934	7
Mukwevho, L Dalu, T Chidawanyika, F	Long-term mammal herbivory on arthropod assemblages at Kruger National Park, South Africa	10.1371/journal.pone.0286396	15

Authors	Title	DOI	SDGs
Mulvey, JF Shaheed, SU Charles, PD Snashall, C Lo Faro, ML Sutton, CW Jochmans, I Pirenne, J Van Kooten, C Leuvenink, HGD Kaisar, M Ploeg, RJ	Perfusate proteomes provide biological insight into oxygenated versus standard hypothermic machine perfusion in kidney transplantation	10.1097/SLA.0000000000006046	3
Mushtaq, U Ayoub, I Hussain, N Sharma, V Swart, HC Kumar, V	Luminescence properties of rare-earth-doped CaO phosphors	10.1007/978-981-99-4145-2_6	9
Mushtaq, U Ayoub, I Yagoub, MYA Som, S Swart, HC Kumar, V	Structural and photoluminescent properties of Gd ³⁺ doped barium aluminate phosphor	10.1016/j.physb.2023.415296	9
Mushtaq, U Sehgal, R Sharma, V Sehgal, R Swart, HC Kumar, V	Organic material-based phosphors	10.1007/978-981-99-4145-2_11	9
Mushtaq, U Sharma, V Swart, HC Kumar, V	Functionality of metal oxide-based core-shell nanoparticles	10.1007/978-981-99-5640-1_6	9
Mutamiswa, R Mbande, A Nyamukondiwa, C Chidawanyika, F	Thermal adaptation in Lepidoptera under shifting environments: mechanisms, patterns, and consequences	10.1007/s12600-023-01095-6	2 8 13 15
Mutamiswa, R Tarusikirwa, VL Nyamukondiwa, C Cuthbert, RN Chidawanyika, F	Thermal stress exposure of pupal oriental fruit fly has strong and trait-specific consequences in adult flies	10.1111/phen.12400	13 15
Muyambo, F Belle, J Nyam, YS Orimoloye, IR	Climate-change-induced weather events and implications for urban water resource management in the Free State province of South Africa	10.1007/s00267-022-01726-4	1 2 6 9 11 13 15
Nair, GB Tamboli, S Dhoble, SJ Swart, HC	LaOF:Yb ³⁺ , Er ³⁺ upconversion nanophosphors operating at low laser powers for nanothermometry applications	10.1021/acsanm.3c03208	9
Nair, GB Tamboli, S Dhoble, SJ Swart, HC	Conversion phosphors: an overview	10.1016/B978-0-323-90539-8.00012-7	7
Nair, GB Tamboli, S Kroon, RE Swart, HC	Microwave-assisted hydrothermal synthesis of LaOF:Yb ³⁺ , Ho ³⁺ nanorods with high thermoresponsive upconversion luminescence for thermometry	10.1016/j.mtchem.2023.101463	9
Nande, A Raut, S Swart, HC Dhoble, SJ	Heavy metal waste management – side products of industries and electronic waste	10.1016/B978-0-323-90909-9.00012-5	6 9 11 12
Ndehedehe, CE Ferreira, VG Adeyeri, OE Correa, FM Usman, M Oussou, FE Kalu, I Okwuashi, O Onojeghuo, AO Getirana, A Dewan, A	Global assessment of drought characteristics in the Anthropocene	10.1016/j.resenv.2022.100105	13



1. Mutamiswa et al. submitted a paper on the consequences of thermal stress exposure in adult oriental fruit flies.
2. Muyambo et al. contributed an article on climate-change-induced weather events and their implications for urban water resource management in the Free State province of South Africa.

Authors	Title	DOI	SDGs
Ndlovu, T Chikobvu, D	The generalised pareto distribution model approach to comparing extreme risk in the exchange rate risk of BitCoin/US dollar and South African rand/US dollar returns	10.3390/risks11060100	8
Ndlovu, T Chikobvu, D	A wavelet-decomposed WD-ARMA-GARCH-EVT model approach to comparing the riskiness of the BitCoin and South African rand exchange rates	10.3390/data8070122	8
Nebel, C Haring, E Murgatroyd, M Sumasgutner, SC Gombobaatar, S Sumasgutner, P Zachos, FE	Genetic analysis of golden eagles (<i>Aquila chrysaetos</i>) from the Mongol-Altai: a hotspot of diversity and implications for global phylogeography	10.3356/JRR-22-57	15
Nemadodzi, EA Franke, AC Mashingaidze, N Kotzé, E Mavunganidze, Z	Maize fungal root pathogens as affected by fertilisation and rotation with legumes	10.1016/j.cropro.2022.106154	2
Nemaungwe, TM Van Dalen, EMSP Waniwa, EO Makaya, PV Chikowore, G Chidawanyika, F	Biogeography of the theileriosis vector, <i>Rhipicephalus appendiculatus</i> under current and future climate scenarios of Zimbabwe	10.1007/s10493-023-00796-1	13
Nemufulwi, MI Swart, HC Mhlongo, GH	Highly selective acetone detection displayed by a surface engineered fibre-like ZnFe ₂ O ₄ based-sensor following heat-treatment ramping rate variation	10.1016/j.matlet.2022.133214	9
Nemufulwi, MI Swart, HC Shingange, K Mhlongo, GH	ZnO/ZnFe ₂ O ₄ heterostructure for conductometric acetone gas sensors	10.1016/j.snb.2022.133027	9

1. Nkoko et al. presented a paper on factors influencing dietary diversity among women of reproductive age (WRA) and under-five children in smallholder farming households in Lesotho.
2. Ntsiapane et al. sent an article on farmers' perceptions of asset-based approaches in agriculture, focusing on smallholder wool farming in Thaba Nchu and Botshabelo, Free State province, South Africa.



Authors	Title	DOI	SDGs
Netshiozwi, U Yeganeh, A Shongwe, SC Hakimi, A	Data-driven surveillance of internet usage using a polynomial profile monitoring scheme	10.3390/math11173650	12
Nisson, DM Walters, CC Chacón-Patiño, ML Weisbrod, CR Kieft, TL Sherwood Lollar, B Warr, O Castillo, J Perl, SM Cason, ED Freifeld, BM Onstott, TC	Radiolytically reworked Archean organic matter in a habitable deep ancient high-temperature brine	10.1038/s41467-023-41900-8	9
Nkoko, N Cronje, N Swanepoel, JW	Determinants of dietary diversity for women of reproductive age (WRA) and under-five children from small-holder farming households in Lesotho	10.1080/23311932.2023.2231688	2
Nthwane, YB Fouda-Mbanga, BG Thwala, M Pillay, K	Novel synthesis of γ -Al ₂ O ₃ /carbon hollow nanosphere nanocomposite for the optimal removal of Ni ²⁺ ions from wastewater and reuse in blood fingerprint enhancement	10.1007/s13738-023-02909-4	6
Nthwane, YB Fouda-Mbanga, BG Thwala, M Pillay, K	Synthesis and characterisation of MC/TiO ₂ NPs nanocomposite for removal of Pb ²⁺ and reuse of spent adsorbent for blood fingerprint detection	10.1021/acsomega.2c05765	6
Ntsiapane, AD Swanepoel, JW Nesamvuni, EA	Farmer's perception on asset-based approach in agriculture: a case study of smallholder wool farming in Thaba Nchu and Botshabelo, Free State province, South Africa	10.17159/2413-3221/2023/v51n2a14065	2

Authors	Title	DOI	SDGs
Ntswane, M Labuschagne, M Shandu, SF Mbuma, NW	Erratum: Phenotypic diversity among cowpea mutants and accessions for grain yield and yield components (<i>South African Journal of Botany</i> (2023) 161 (519–530), (S0254629923005082), (10.1016/j.sajb.2023.08.049))	10.1016/j.sajb.2023.09.026	2
Ntswane, M Labuschagne, M Shandu, SF Mbuma, NW	Phenotypic diversity among cowpea mutants and accessions for grain yield and yield components	10.1016/j.sajb.2023.08.049	2
Ntswane, M Labuschagne, M Shandu, SF Mbuma, NW	Erratum to 'Phenotypic diversity among cowpea mutants and accessions for grain yield and yield components', <i>South African Journal of Botany</i> , Volume 161, October 2023, pages 519–530 (<i>South African Journal of Botany</i> (2023) 161 (519–530), (S0254629923005082), (10.1016/j.sajb.2023.08.049))	10.1016/j.sajb.2023.09.025	2
Ocaya, RO	A group theory approach in the analysis of temperature symmetry in semiconducting junction devices	10.1063/5.0162796	9
Ocaya, RO Akinyelu, AA Al-Sehemi, AG Dere, A Al-Ghamdi, AA Yakuphanoglu, F	Machine learning models for efficient characterisation of Schottky barrier photodiode internal parameters	10.1038/s41598-023-41111-7	9
Ocaya, RO Al-Sehemi, AG Tataroglu, A Dere, A Erol, I Aksu, M Al-Ghamdi, AA Yakuphanoglu, F	Effect of CuO doping on the performance of LaB6 interlayer films in Al/CuO:LaB6/p-Si/Al diodes	10.1016/j.physb.2023.415111	9
Ocaya, RO Orman, Y Al-Sehemi, AG Dere, A Al-Ghamdi, AA Yakuphanoglu, F	Bias and illumination-dependent room temperature negative differential conductance in Ni-doped ZnO/p-Si Schottky photodiodes for quantum optics applications	10.1016/j.heliyon.2023.e16269	7
Odendaal, GJ Erasmus, LJB Kroon, RE Swart, HC	Reduction methods for Sm ³⁺ to Sm ²⁺ in strontium borates for solar energy applications	10.1016/j.physb.2023.415319	7
Ogugua, SN Erasmus, LJB Swart, HC	Ca ₄ (PO ₄) ₂₀ :Eu ²⁺ , Eu ³⁺ phosphor enabled sundry spectral range sub-K optical thermometry	10.1016/j.materresbull.2023.112256	
Ogugua, SN Swart, HC	Photoluminescence and temperature-dependent luminescence of Ca ₅ (PO ₄) ₃ OH doped Eu ³⁺ phosphors	10.1016/j.physb.2023.415320	9
Ogundipe, SA Ndlangamandla, CL Diale, MM Jozela, M Swart, HC Motaung, DE Nkosi, SS	Effect of carrier gas on the gas sensing performance of Co _{1-2x} Ni _x Mn _x Fe _{2-y} Ce _y O ₄ double-substitution spinel in flammable gases and volatile organic compounds	10.3390/coatings13101771	9
Ogunsola, OO Ajayi, OA Ojo, TO Osayi, E Wudiri, K Amoo, B Ayoka-Ikechukwu, R Olumeyan, OO Ifechelobi, C Okonkwo, P Akinro, Y	Cervical cancer screening and treatment for PLWHIV: experiences from an innovative programme in Nigeria	10.1186/s12978-023-01658-0	3

Authors	Title	DOI	SDGs
Ojo, TO Ojo, AO Ojo, OE Akinwalere, BO Akinwumi, AF	Determinants of COVID-19 vaccine uptake among Nigerians: evidence from a cross-sectional national survey	10.1186/s13690-023-01107-1	3
Ojo, TO Oladejo, BP Afolabi, BK Osungbade, AD Anyanwu, PC Shaibu-Ekha, I	Why move abroad? Factors influencing migration intentions of final-year students of health-related disciplines in Nigeria	10.1186/s12909-023-04683-6	4
Olatidoye, OA Samat, SH Yin, K Bates, MJ	Pulmonary valve infective endocarditis caused by Mycobacterium abscessus	10.1186/s13019-023-02336-9	3
Ololade, OO O'Shea, B Quandt, A Pandey, V Oke, S	Editorial: Emerging trends on adaptive capacity and water security measures under a looming climate change threat	10.3389/frwa.2023.1139682	6 13
Olowookere, SA Awopeju, OF Fehintola, FO Arije, O Ojo, TO Obe-Adeoye, OI Aina, OA Gbadamosi, MO Adepoju, EG	Tuberculosis burden and its predictors among people living with HIV/Aids at a Nigerian treatment centre: a prospective study	10.4314/rmj.v80i3.6	3 5
Omelko, MM Marusik, YM	Ride on female for 'prima noctua' or close attachment in the araneid spider <i>Caerostris sumatrana</i> Strand, 1915 (Araneae: Araneidae)	10.11646/zootaxa.5311.2.7	15
Onyelowe, KC Naghizadeh, A Aneke, FI Kontoni, D-PN Onyia, ME Welman-Purchase, M Ebid, AM Adah, EI Stephen, LU	Characterisation of net-zero pozzolanic potential of thermally derived metakaolin samples for sustainable carbon neutrality construction	10.1038/s41598-023-46362-y	9
Oppong Mensah, N Owusu-Sekyere, E Adjei, C	Revisiting preferences for agricultural insurance policies: insights from cashew crop insurance development in Ghana	10.1016/j.foodpol.2023.102496	1 8
Osthoff, G Wiese, I Deacon, F	African elephant milk short saccharide and metabolite composition and their changes over lactation	10.3390/ani13030544	
Otunola, BO Aghoghovwia, MP Thwala, M Gómez-Arias, A Jordaan, R Hernandez, JC Ololade, OO	Improving capacity for phytoremediation of Vetiver grass and Indian mustard in heavy metal (Al and Mn) contaminated water through the application of clay minerals	10.1007/s11356-023-26083-5	6 15
Ouya, FO Murage, AW Pittchar, JO Chidawanyika, F Pickett, JA Khan, ZR	Impacts of climate-resilient push-pull technology on farmers' income in selected counties in Kenya and Tanzania: propensity score matching approach	10.1186/s40066-023-00418-4	2
Owolabi, KM	Analysis and numerical simulation of cross reaction-diffusion systems with the Caputo-Fabrizio and Riesz operators	10.1002/num.22794	15
Owolabi, KM	Computational study for the Caputo sub-diffusive and Riesz super-diffusive processes with a fractional order reaction-diffusion equation	10.1016/j.padiff.2023.100564	9



1. Ojo et al. presented an article on factors influencing COVID-19 vaccine uptake among Nigerians, based on a national survey.
2. Oppong Mensah et al. submitted a paper on reassessing preferences for agricultural insurance policies, focusing on the development of cashew crop insurance in Ghana.

Authors	Title	DOI	SDGs
Owolabi, KM Agarwal, RP Pindza, E Bernstein, S Osman, MS	Complex Turing patterns in chaotic dynamics of autocatalytic reactions with the Caputo fractional derivative	10.1007/s00521-023-08298-2	9
Owolabi, KM Jain, S	Spatial patterns through diffusion-driven instability in modified predator-prey models with chaotic behaviours	10.1016/j.chaos.2023.113839	15
Owolabi, KM Pindza, E	Adaptive techniques for solving chaotic system of parabolic type	10.1016/j.sciaf.2022.e01490	9
Owolabi, KM Pindza, E Oguz, G	Exponential-time-differencing method for the solution of diffusive HIV-I model	10.1007/978-981-99-5001-0_1	3
Owolabi, KM Shikongo, A Pindza, E	Numerical solution for a tumour cells dynamics within their micro-environment	10.1007/978-981-99-5001-0_3	3
Owolabi, ST Belle, JA	Investigating extreme hydrological risk impact on water quality; evidence from Buffalo catchment headwater, Eastern Cape, South Africa	10.1007/s11356-023-27048-4	6 13
Owusu, V Donkor, E Owusu-Sekyere, E Ogundeji, A Owusu Asante, B	Editorial: Climate change, variability, and sustainable food systems	10.3389/fsufs.2022.912811	1 13
Owusu-Sekyere, E Hansson, H Telezhenko, E Nyman, A-K Ahmed, H	Economic impact of investment in animal welfare-enhancing flooring solutions – implications for promoting sustainable dairy production in Sweden	10.1108/BFJ-06-2022-0523	2
Owusu-Sekyere, E Nyman, A-K Lindberg, M Adamie, BA Agenäs, S Hansson, H	Dairy cow longevity: impact of animal health and farmers' investment decisions	10.3168/jds.2022-22808	9

1. Clark et al. submitted a paper for a special issue on Southern African mountains, focusing on their value and vulnerabilities.
2. Pause et al. provided an article on the diurnal activity budgets of extralimital giraffes in the Western Cape province, South Africa.



Authors	Title	DOI	SDGs
Oyeyemi, KD Abuka-Joshua, J Rotimi, OJ Dieppois, B Gomo, M Olajojo, AA Falae, PO Metwaly, M	Geoelectrical characterisation of coastal aquifers in Agbado-Ijaye, Lagos, Southwestern Nigeria; implications for groundwater resources sustainability	10.3390/su15043538	14
Oyim, J Matshitse, R Malomane, N Openda, YI Nyokong, T Managa, M	In vitro photoinactivation of <i>S. aureus</i> and <i>E. coli</i> using 5,10,15,20-tetrakis[4-(benzyloxy) phenyl] porphyrin and its metal derivatives conjugated to pristine graphene quantum dots	10.1142/S1088424623500529	9
Panchu, SJ Raju, K Singh, P Johnson, DD Swart, HC	High mass loading of flowerlike Ni-MoS ₂ microspheres toward efficient intercalation pseudocapacitive electrodes	10.1021/acsaem.2c03257	9
Parker, A Parker, MA Schneider, J Jordaan, H Visser, W	The clinicopathological spectrum of preclinical folliculitis keloidalis with correlation to its dermoscopic features: a cross-sectional analytical study	10.1111/ijd.16847	3
Pathak, TK Sharma, AK Dubey, JP Swart, HC	Laser and UV-irradiation in oxides semiconductors	10.1016/B978-0-323-90907-5.00007-5	9
Pause, J Couldridge, V Cupido, C Deacon, F	The diurnal activity budgets of extralimital giraffe (<i>Giraffa camelopardalis giraffa</i>) in the Western Cape province, South Africa	10.1111/aje.13135	15
Pawade, VB Kohale, RL Dhoble, SJ Swart, HC	Phosphor Handbook: Process, properties, and applications	10.1016/C2020-0-03627-3	9
Pawade, VB Kohale, RL Dhoble, SJ Swart, HC	Preface - Phosphor Handbook: Process, properties, and applications	10.1016/C2020-0-03627-3	9
Peel, TN Astbury, S Cheng, AC Paterson, DL Busing, KL Spelman, T Tran-Duy, A Adie, S Boyce, G McDougall, C Molnar, R Mulford, J Rehfish, P Solomon, M Crawford, R Harris-Brown, T Roney, J Wisniewski, J De Steiger, R	Trial of Vancomycin and Cefazolin as surgical prophylaxis in arthroplasty	10.1056/NEJMoa2301401	3

Authors	Title	DOI	SDGs
Perras, FA Matsuki, Y Southern, SA Dubroca, T Flesariu, DF Van Tol, J Constantinides, CP Koutentis, PA	Mechanistic origins of methyl-driven Overhauser DNP	10.1063/5.0149664	9
Phaka, FM Netherlands, EC Van Steenberge, M Verheyen, E Sonet, G Hugé, J Du Preez, LH Vanhove, MPM	Barcoding and traditional health practitioner perspectives are informative to monitor and conserve frogs and reptiles traded for traditional medicine in urban South Africa	10.1111/1755-0998.13873	15
Phokojoe, RA Motloun, SV Motaung, TE Kebede, MA Swart, HC Koao, LF	Effect of annealing time on copper selenide thin films prepared by chemical bath deposition	10.1016/j.physb.2023.415112	9
Pielage, M El Marroun, H Odendaal, HJ Willemsen, SP Hillegers, MHJ Steegers, EAP Rousian, M	Alcohol exposure before and during pregnancy is associated with reduced faetal growth: the safe passage study	10.1186/s12916-023-03020-4	3
Pieterse, T Marais, C Bezuidenhout, BCB	Ring-closing metathesis in flavonoid synthesis, part 3: Isoflavenes	10.24820/ark.5550190.p011.990	9
Plaxton, L Hempel, E Marsh, WA Portela Miguez, R Waurick, I Kitchener, AC Hofreiter, M Lister, AM Zachos, FE Brace, S	Assessing the identity of rare historical museum specimens of the extinct blue antelope (<i>Hippotragus leucophaeus</i>) using an ancient DNA approach	10.1007/s42991-023-00373-4	15
Pohl, CH França, A	Editorial: Women in biofilms vol. II	10.3389/fcimb.2023.1271026	5
Polak, KL Tamagno, I Parameswaran, N Smigiel, J Chan, ER Yuan, X Rios, B Jackson, MW	Oncostatin-M and OSM-receptor feed-forward activation of MAPK induces separable stem-like and mesenchymal programmes	10.1158/1541-7786.MCR-22-0715	3
Pop, V Ozunu, A Petrescu, DC Stan, A-D Petrescu-Mag, RM	The influence of media narratives on microplastics risk perception	10.7717/peerj.16338	3 13 14
Prakash, J Swart, H	Plasmonic photocatalysts as emerging multifunctional nanomaterials for energy and environmental applications	10.1016/j.physb.2023.415297	9
Radovici, A Ștefănie, H Ajtai, I Mereuță, A Botezan, C Ozunu, A Ajtai, N	Is the analysis of territorial compatibility in the vicinity of road hazmat transport routes a necessity for developing countries? A case study of Romania	10.1016/j.heliyon.2023.e19948	8 9 11
Rajagopalan, K Madirov, E Busko, D Howard, IA Richards, BS Swart, HC Turshatov, A	High quantum yield shortwave infrared luminescent tracers for improved sorting of plastic waste	10.1021/acsami.3c07387	9
Ralph Clark, V Hickman, A Szarzynski, J Lombard, C Hill, T	Guest editorial for the special issue: Southern African mountains – their value and vulnerabilities	10.1080/0035919X.2023.2229195	15
Ramaekers, L Vanschoenwinkel, B Brendonck, L Pinceel, T	Elevated dissolved carbon dioxide and associated acidification delays maturation and decreases calcification and survival in the freshwater crustacean <i>Daphnia magna</i>	10.1002/lno.12372	14

1. Ramatla et al. submitted an article on the molecular detection of *Coxiella burnetii* and *Coxiella* species in rats and chickens from poultry farms in North West Province, South Africa.
2. Ridoutt B submitted a paper on plant-based and alternative protein foods, realising benefits and avoiding risks.



Authors	Title	DOI	SDGs
Ramatla, T Khumalo, ZTH Matshotshi, A Lekota, KE Taioe, MO Thekiso, O	Molecular detection of <i>Coxiella burnetii</i> and <i>Coxiella</i> species in rats and chickens from poultry farms in North West Province, South Africa	10.1002/vms3.1192	2
Ramolahlane, HT Nair, GB Swart, HC	Controlled synthesis and photoluminescence study of blue-emitting Cs ₃ Bi ₂ Br ₉ nanocrystals prepared by the ligand-assisted reprecipitation (LARP) method	10.1016/j.materresbull.2023.112285	9
Rani, ZT Mhlongo, LC Hugo, A	Microbial profiles of meat at different stages of the distribution chain from the abattoir to retail outlets	10.3390/ijerph20031986	2 9 12
Raphela, TD Duffy, KJ	Effects of the density of invasive <i>Lantana camara</i> plants on the biodiversity of large and small mammals in the Groenkloof Nature Reserve (GNR) in South Africa	10.3390/biology12020296	15
Riaz, MB Ur Rehman, A Wojciechowski, A Atangana, A	Heat and mass flux analysis of magneto-free-convection flow of Oldroyd-B fluid through porous layered inclined plate	10.1038/s41598-022-27265-w	9
Ricketts, KD Palmer, J Navarro-Garcia, J Lee, C Dominik, S Barlow, R Ridoutt, B Richards, A	Bridging organisational discourse and practice change: exploring sustainable procurement portfolios for Australian beef	10.1108/SAMPJ-10-2022-0530	2 9 12
Ridoutt, B	New plant-based and alternative protein foods – realising the benefits and avoiding the risks	10.1111/1747-0080.12779	2

Authors	Title	DOI	SDGs
Robinson, ML Hahn, PG Inouye, BD Underwood, N Whitehead, SR Abbott, KC Bruna, EM Cacho, NI Dyer, LA Abdala-Roberts, L Allen, WJ Andrade, JF Angulo, DF Anjos, D Anstett, DN Bagchi, R Bagchi, S Barbosa, M Barrett, S Baskett, CA Ben-Simchon, E Bloodworth, KJ Bronstein, JL Buckley, Y Burghardt, KT Bustos-Segura, C Calixto, ES Carvalho, RL Castagneyrol, B Chiuffo, MC Cinoğlu, D Cinto Mejía, E Cock, MC Cogni, R Cope, OL Cornelissen, T Cortez, DR Crowder, DW Dallstream, C Dáttilo, W Davis, JK Dimarco, RD Dole, HE Egbon, IN Eisenring, M Ejomah, A Elder, BD Endara, M-J Eubanks, MD Everingham, SE Farah, KN Farias, RP Fernandes, AP Fernandes, GW Ferrante, M Finn, A Florjancic, GA Forister, ML Fox, QN Frago, E França, FM Getman-Pickering, AS Getman-Pickering, Z Gianoli, E Gooden, B Gossner, MM Greig, KA Gripenberg, S Groenteman, R Grof-Tisza, P Haack, N Hahn, L Haq, SM Helms, AM Hennecke, J Hermann, SL Holeski, LM Holm, S Hutchinson, MC Jackson, EE Kagiya, S Kalske, A Kalwajtys, M Karban, R Kariyat, R Keasar, T Kersch-Becker, MF Kharouba, HM Kim, TN Kimuyu, DM Kluse, J Koerner, SE Komatsu, KJ Krishnan, S Laihonon, M Lamelas-López, L LaScaleia, MC Lecomte, N Lehn, CR Li, X Lindroth, RL LoPresti, EF Losada, M Louthan, AM Luizzi, VJ Lynch, SC Lynn, JS Lyon, NJ Maia, LF Maia, RA Mannall, TL Martin, BS Massad, TJ McCall, AC McGurrin, K Merwin, AC Mijango-Ramos, Z Mills, CH Moles, AT Moore, CM Moreira, X Morrison, CR Moshobane, MC Muola, A Nakadai, R Nakajima, K Novais, S Ogbemor, CO Ohsaki, H Pan, VS Pardikes, NA	Plant size, latitude, and phylogeny explain within-population variability in herbivory	10.1126/science.adh8830	15

1. Schutte-Smith et al. presented an article on using visible light to activate antiviral and antimicrobial properties of TiO₂ nanoparticles in paints and coatings, focusing on new developments for frequently touched surfaces in hospitals.
2. Sethodi, R submitted an article on modeling the influence of extraction temperature on the ellagitannin and antioxidant profiles of 'wonderful' pomegranate peel using advanced chemometrics analysis.



Authors	Title	DOI	SDGs
Pareja, M Parthasarathy, N Pawar, RR Paynter, Q Pearce, IS Penczykowski, RM Pepi, AA Pereira, CC Phartyal, SS Piper, FI Poveda, K Pringle, EG Puy, J Quijano, T Quintero, C Rasmann, S Rosche, C Rosenheim, LY Rosenheim, JA Runyon, JB Sadeh, A Sakata, Y Salcido, DM Salgado-Luarte, C Santos, BA Sapir, Y Sasal, Y Sato, Y Sawant, M Schroeder, H Schumann, I Segoli, M Segre, H Shelef, O Shinohara, N Singh, RP Smith, DS Sobral, M Stotz, GC Tack, AJM Tayal, M Tooker, JF Torrico-Bazoberry, D Tougeron, K Trowbridge, AM Utsumi, S Uyi, O Vaca-Urbe, JL Valtonen, A Van Dijk, LJA Vandvik, V Villellas, J Waller, LP Weber, MG Yamawo, A Yim, S Zarnetske, PL Zehr, LN Zhong, Z Wetzel, WC			
Rothmann, C Rothmann, L Viljoen, B Cason, ED	Application of solid-state fermentation using mushrooms for the production of animal feed	10.1002/jobm.202300218	7 15

Authors	Title	DOI	SDGs
Saeed, NAM Coetsee, E Swart, HC	Tunable Ho ³⁺ co-doped YOF:Bi ³⁺ emission through cathodoluminescence	10.1016/j.materresbull.2022.112089	9
Sania, A Myers, MM Pini, N Lucchini, M Nugent, JD Shuffrey, LC Rao, S Barbosa, J Angal, J Elliott, AJ Odendaal, HJ Fifer, WP	Prenatal smoking and drinking are associated with altered newborn autonomic functions	10.1038/s41390-022-02060-5	3
Scholtz, MM Jordaan, FJ Thuli Chabalala, N Pyoos, GM Joel Mamabolo, M Naser, FWC	A balanced perspective on the contribution of extensive ruminant production to greenhouse gas emissions in Southern Africa	10.2989/10220119.2022.2155247	2 12 13
Schutte-Smith, M Erasmus, E Mogale, R Marogoa, N Jayiya, A Visser, HG	Using visible light to activate antiviral and antimicrobial properties of TiO ₂ nanoparticles in paints and coatings: focus on new developments for frequent-touch surfaces in hospitals	10.1007/s11998-022-00733-8	3
Scott, L Neumann, FH Van Aardt, AC Botha, GA	Palaeoenvironmental sequences surrounding Border Cave, South Africa, and review of conditions during middle and later stone age occupation	10.1016/j.quascirev.2022.107894	13
Seboko, KR Van Tol, J Kotze, E	Predicting soil carbon in granitic soils using Fourier-transform mid-infrared (FT-MIR) spectroscopy: the value of database disaggregation	10.1080/02571862.2023.2180098	15
Setlhodi, R Mashile, B Izu, GO Gbashi, S Mashele, SS Bonnet, SL Makhafola, TJ Chukwuma, CI	Effect of solvent extraction on the antioxidant and phytochemical profiles of ellagitannins from 'wonderful' pomegranate peel: an advanced chemometrics analysis	10.1007/s00217-023-04255-4	2
Setlhodi, R Mashile, B Izu, GO Gbashi, S Mashele, SS Bonnet, SL Makhafola, TJ Chukwuma, CI	Modelling the influence of extraction temperature on the ellagitannin and antioxidant profiles of 'wonderful' pomegranate peel using advanced chemometrics analysis	10.1007/s11947-023-03104-2	2
Sharma, AK Nair, GB Dhoble, SJ Kroon, RE Terblans, JJ Swart, HC	Luminescence thermometry based on the upconversion luminescence from the stark sublevels of BaY ₂ F ₈ :Yb ³⁺ , Tm ³⁺ phosphor	10.1007/s10895-023-03295-z	9
Sharma, S Sharma, P Mittal, A Sharma, A Motaung, DE Singh Chauhan, N Kumar, N	Development of TiO ₂ /Bi ₂ O ₃ /PANI as a novel glucose biosensor and antimicrobial agent	10.1016/j.inoche.2023.110994	3
Sherwood, D Marusik, YM Sharp, A	First records of Clubiona hitchinsi Saaristo, 2002 on Ascension Island (Araneae, Clubionidae)	10.15560/19.6.833	15
Sherwood, D Marusik, YM Sharp, A Ashmole, P	A survey of Gnaphosidae (Arachnida, Araneae) from Ascension Island with description of a new species of Australoechemus Schmidt & Piepho, 1994	10.3897/afrinvertebr.64.113946	15
Shingange, K Swart, HC Mhlongo, GH	Enhanced ethanol sensing abilities of fibre-like La _{1-x} Ce _x CoO ₃ (0 ≤ x ≤ 0.2) perovskites based-sensors at low operating temperatures	10.1016/j.snb.2022.133012	9

1. Shyamsunder et al. presented a paper on a new fractional mathematical model to study the impact of vaccination on COVID-19 outbreaks.
2. Ghosh et al submitted a paper on global species diversity and distribution of the psychedelic fungal genus *Panaeolus*.



Authors	Title	DOI	SDGs
Shivaramu, NJ Lakshminarasappa, BN Coetsee, E Kroon, RE Swart, HC	Structural, thermoluminescence and optical properties of Nd3+ doped Y2O3 nanophosphor for dosimeter and optoelectronics applications	10.1016/j.materresbull.2023.112153	9
Shyamsunder Bhatte, S Jangid, K Abidemi, A Owolabi, KM Purohit, SD	A new fractional mathematical model to study the impact of vaccination on COVID-19 outbreaks	10.1016/j.dajour.2022.100156	3
Sidhu, VS Kelly, T-L Pratt, N Graves, SE Buchbinder, R Adie, S Cashman, K Ackerman, IN Bastiras, D Brighton, R Burns, AWR Chong, BH Clavisi, O Cripps, M Dekkers, M De Steiger, R Dixon, M Ellis, A Griffith, EC Hale, D Hansen, A Harris, A Hau, R Horsley, M James, D Khorshid, O Kuo, L Lewis, PL Lieu, D Lorimer, M Macdessi, SJ McCombe, P McDougall, C Mulford, J Naylor, JM Page, RS Radovanovic, J Solomon, M Sorial, R Summersell, P Tran, P Walter, WL Webb, S Wilson, C Wysocki, D Harris, IA	Effect of aspirin vs enoxaparin on 90-day mortality in patients undergoing hip or knee arthroplasty: a secondary analysis of the CRISTAL cluster randomised trial	10.1001/jamanetworkopen.2023.17838	3
Sirunda, J Oberholster, P Wolfaardt, G Truter, C Van der Merwe, S	Long-term study of the drought impact on the phytoplankton concentration and assemblages in two water supply reservoirs in Namibia	10.2989/16085914.2023.2200816	7 13
Siwale, J Labuschagne, M Gerrano, AS Paterne, A Mbuma, NW	Variation in protein content, starch components, selected minerals and their bioavailability in Bambara groundnut accessions	10.1016/j.jfca.2022.104991	2

Authors	Title	DOI	SDGs
Smith, JL Ahluwalia, V Gore, RK Allen, JW	Eagle-449: a volumetric, whole-brain compilation of brain atlases for vestibular functional MRI research	10.1038/s41597-023-01938-1	3
Smith, JL Allen, JW	Beyond the AJR: sampling variability impacts reproducibility in brain-wide association studies	10.2214/AJR.22.28026	3
Smith, JL Diekfuss, JA Dudley, JA Ahluwalia, V Zuleger, TM Slutsky-Ganesh, AB Yuan, W Foss, KDB Gore, RK Myer, GD Allen, JW	Visuo-vestibular and cognitive connections of the vestibular neuromatrix are conserved across age and injury populations	10.1111/jon.13136	3
Staats, GJ Mc Carlie, SJ Van der Walt, B Bragg, RR	The linkage between antibiotic and disinfectant resistance	10.1007/978-3-031-23796-6_11	3
Strauss, D Ghosh, S Murray, Z Gryzenhout, M	Global species diversity and distribution of the psychedelic fungal genus <i>Panaeolus</i>	10.1016/j.heliyon.2023.e16338	3
Sukul, PP Swart, H Kumar, K	Boltzmann relation reliability in optical temperature sensing based on upconversion studies of Er ³⁺ /Yb ³⁺ co-doped PZT ceramics	10.1002/bio.4354	9
Sukul, PP Swart, HC	Synergistic red dominance over green upconversion studies in PbZrTiO ₃ : Er ³⁺ /Yb ³⁺ phosphor synthesised via two different modified technique and flexible thin-film thermometer demonstration on C1: PbZrTiO ₃ @PDMS substrates	10.1016/j.jallcom.2023.171656	7
Swanepoel, JWH	Construction of bivariate symmetric and asymmetric copulas and its relationship to ratios of conditional hazard rate functions	10.1080/03610926.2023.2218505	9
Swart, HC Coetsee-Hugo, E	X-ray photoelectron spectroscopy study of oxide semiconductors	10.1016/B978-0-323-90907-5.00013-0	3
Swart, HC Motaung, DE	LED-based gas sensors: a review	10.1016/j.coesh.2023.100506	7 9
Swart, PC Du Plessis, M Rust, C Womersley, JS Van den Heuvel, LL Seedat, S Hemmings, SMJ	Identifying genetic loci that are associated with changes in gene expression in PTSD in a South African cohort	10.1111/jnc.15919	3
Tamboli, S Nair, GB Xia, Z Dhoble, SJ Swart, HC	Blue-light pumped NIR emission of LaOF:Pr ³⁺ nanorods for highly sensitive nanothermometry	10.1016/j.ceramint.2023.04.192	9

1. Pretorius et al presented a paper on physiologic races of *Puccinia triticina* detected on wheat in South Africa from 2017 to 2020.
2. Van der Merwe, P submitted an article on science as a chess game against time.



Authors	Title	DOI	SDGs
Terefe, TG Visser, B Pretorius, ZA Boshoff, WHP	Physiologic races of <i>Puccinia triticina</i> detected on wheat in South Africa from 2017 to 2020	10.1007/s10658-022-02583-x	2
Terefe, YA Njagarah, JBH Kassa, SM	Effect of cross-border migration on the healthcare system of a destination community: insights from mathematical modelling of COVID-19 in a developing country	10.1016/j.matcom.2023.01.040	3
Tesfuhuney, W Ravuluma, M Dzvene, AR Bello, Z Andries, F Walker, S Cammarano, D	In-field rainwater harvesting tillage in semi-arid ecosystems: I maize-bean intercrop performance and productivity	10.3390/plants12173027	2 6
Thobejane, K Swanepoel, J Van Niekerk, J Van der Merwe, H	Measuring women's empowerment in agriculture in the Gauteng province of South Africa	10.17159/2413-3221/2023/v51n3a15857	2 5 10
Thomas, B Jardón-Álvarez, D Carmieli, R Van Tol, J Leskes, M	The effect of disorder on endogenous MAS-DNP: study of silicate glasses and crystals	10.1021/acs.jpcc.2c08849	9
Thomas, DT Mata, G Toovey, AF Hunt, PW Wijffels, G Pirzl, R Strachan, M Ridoutt, BG	Climate and biodiversity credentials for Australian grass-fed beef: a review of standards, certification, and assurance schemes	10.3390/su151813935	2 12 13
Thoré, ESJ Vanden Berghen, B Brendonck, L Pinceel, T	Long-term exposure to a pharmaceutical pollutant affects geotaxic behaviour in the adult but not juvenile life stage of killifish	10.1016/j.scitotenv.2023.162746	15

Authors	Title	DOI	SDGs
Tinta, N Kolanisi, U	Overcoming barriers for people with disabilities participating in income-generating activities: a proposed development framework	10.4102/ajod.v12i0.1133	8
Tladi, BC Kroon, RE Swart, HC Motaung, DE	A holistic review on the recent trends, advances, and challenges for high-precision room temperature liquefied petroleum gas sensors	10.1016/j.aca.2023.341033	9
Tladi, BC Swart, HC Kroon, RE	Characterisation of pulsed laser deposited La ₂ O ₃ :Eu ³⁺ thin films and effect of coating with graphene oxide layers	10.1116/6.0002266	9
Tladi, BC Swart, HC Motaung, DE Kroon, RE	Effect of graphene oxide coatings on the optical properties of pulsed laser deposited ZnO:Zn thin films	10.1016/j.optmat.2023.114531	9
Toerien, DF	Community prosperity/poverty (Prospov) maps: development and usefulness	10.1080/10875549.2023.2259884	1
Tshikovhi, A Koao, LF Malevu, TD Linganisio, EC Motaung, TE	Dopants concentration on the properties of various host materials by sol-gel method: critical review	10.1016/j.rinma.2023.100447	9
Tshuma, M Belle, JA Ncube, A	An analysis of factors influencing household water, sanitation, and hygiene (WASH) experiences during flood hazards in Tsholotsho district using a seemingly unrelated regression (SUR) model	10.3390/w15020371	3 6 11
Twigge, L Conradie, J Erasmus, E	Spectroscopic and DFT study of tris(β-diketonato)cobalt(III) complexes	10.1177/17475198231184788	3
Twiggs, J Miles, B Parker, D Liu, D Shimmin, A Fritsch, B Roe, J Baré, J Solomon, M Dickison, D McMahon, S Boyle, R Walter, L	Patient-reported impairment following TKA is reduced when a computationally simulated predicted ideal alignment is achieved	10.1007/s00167-022-07225-7	3
Uban, KA Jonker, D Donald, KA Bodison, SC Brooks, SJ Kan, E Steigelmann, B Roos, A Marshall, A Adise, S Butler-Kruger, L Melly, B Narr, KL Joshi, SH Odendaal, HJ Sowell, ER Stein, DJ	Associations between community-level patterns of prenatal alcohol and tobacco exposure on brain structure in a non-clinical sample of six-year-old children: a South African pilot study	10.1017/neu.2022.34	3
Uyi, O Ni, X Buntin, D Jacobson, A Reay-Jones, FPF Punhuri, S Toews, MD	Management of <i>Melanaphis sorghi</i> (Hemiptera: Aphididae) in grain sorghum with early planting and in-furrow flupyradifurone application	10.1016/j.cropro.2022.106148	2 15
Van Dalen, EMSP Van Rensburg, CJ	Evolution of acaricide resistance of <i>Rhipicephalus decoloratus</i> on commercial farms in South Africa	10.1007/s10493-023-00820-4	2
Van den Heever, MJJ Lombard, WA Bahta, YT Maré, FA	Cost-effectiveness of acaricide application methods against heartwater disease in South Africa	10.3390/agriculture13030568	2
Van der Merwe, P	Science - a chess game against time	10.1039/d3su90039h	9

Authors	Title	DOI	SDGs
Van der Mescht, AC Codron, D	Mountains and their ecotones increase landscape heterogeneity and maintain a unique assemblage of grasshoppers in the southern Kalahari	10.1111/een.13217	15
Van der Walt, MS Daffue, W Goedhals, J Serfontein, C Deacon, F	A preliminary study on the functionality of the carotid-vertebral anastomotic artery in the regulation of blood flow in the giraffe (<i>Giraffa camelopardalis</i>) by duplex ultrasound examination	10.1155/2023/8395360	15
Van Dyk, H Jacobs, FJF Kroon, RE Makhafola, TJ Brink, A	Characterisation, structural investigations, and biological activity of substituted salicylidene-based compounds	10.1016/j.molstruc.2022.134737	3
Van Jaarsveldt, J Marais, C Van Tonder, JH Bezuidenhout, BCB	Synthesis and epoxidation of Flav-3-enes as methodology for the biomimetic preparation of flavan-3,4-diols	10.1055/s-0041-1738441	9
Van Niekerk, L Amoah, C	Workforce motivational factors in the construction industry	10.14455/ISEC.2023.10(1).CON-22	9
Van Niekerk, M Neser, F Van Wyk, J Ducrocq, V	Comparison of fixed and random regression models for the analysis of milk production traits in South African Holstein dairy cattle under two production systems	10.1016/j.livsci.2022.105125	2
Van Rooyen, B De Wit, M Osthoff, G Van Niekerk, J Hugo, A	Effect of native mucilage on the mechanical properties of pectin-based and alginate-based polymeric films	10.3390/coatings13091611	9
Van Rooyen, B De Wit, M Osthoff, G Van Niekerk, J Hugo, A	Microstructural and mechanical properties of calcium-treated cactus pear mucilage (<i>Opuntia</i> spp.), pectin and alginate single-biopolymer films	10.3390/polym15214295	15
Van Tonder, JD Venter, MP Venter, G	A novel method for resolving non-unique solutions observed in fitting parameters to the Mooney Rivlin material model	10.1016/j.finel.2023.104006	9
Van Wyngaard, BE Strydom, PE Hugo, A	A South African beef quality survey	10.1016/j.meatsci.2023.109109	2
Van Zyl, CDW Van Reenen, M Osthoff, G Du Preez, I	Evaluation of BAYESIL for automated annotation of ¹ H NMR data using limited sample volumes: application to African elephant serum	10.1007/s11306-023-02001-1	15
Van Zyl, M-L Boucher-Van Jaarsveld, CE Viljoen, BC Bragg, RR	The current state of antimicrobial use in bovine mastitis in various African countries	10.1007/978-3-031-23796-6_8	2
Vandromme, M Van de Sande, E Pinceel, T Vanhove, W Trekels, H Vanschoenwinkel, B	Resolving the identity and breeding habitats of cryptic dipteran cacao flower visitors in a neotropical cacao agroforestry system	10.1016/j.baae.2023.03.002	2
Veldkornet, DA	The influence of macroclimatic drivers on the macrophyte phylogenetic diversity in South African estuaries	10.3390/d15090986	15



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2.



3.

1. Von Maltitz and Van Niekerk submitted an article on undergraduate agricultural extension qualifications in South Africa, comparing curricula to desired skills and competencies.
2. Van Niekerk et al. submitted an article comparing fixed and random regression models for analysing milk production traits in South African Holstein dairy cattle under two production systems.
3. Van Niekerk and Amoah presented a paper about workforce motivational factors in the construction industry.

Authors	Title	DOI	SDGs
Verma, S Ayoub, I Som, S Sharma, V Kumar, G Swart, HC Kumar, V	Spectroscopic characterisation of Eu ³⁺ -doped K ₂ Si ₂ O ₇ phosphor for NUV LEDs: estimation of the Judd Ofelt parameter	10.1016/j.optmat.2022.113416	9
Vetrík, T	General sum-connectivity index of trees with given number of branching vertices	10.22108/TOC.2022.133548.1987	9
Vetrík, T	General eccentric distance sum of graphs with given diameter	10.1142/S1793557123500572	9
Vetrík, T	Degree-based function index for graphs with given diameter	10.1016/j.dam.2023.02.018	9
Vetrík, T	General Randić index of trees with given number of branching vertices	10.1142/S1793830922501075	9
Vetrík, T	General approach for obtaining extremal results on degree-based indices illustrated on the general sum-connectivity index	10.5614/ejgta.2023.11.1.10	9
Vetrík, T Imran, M Knor, M Škrekovski, R	The metric dimension of the circulant graph with 2k generators can be less than k	10.1016/j.jksus.2023.102834	9
Vetrík, T Masre, M Balachandran, S	Eccentric connectivity coindex of bipartite graphs	10.1142/S1793830922500549	9
Von Maltitz, L Van Niekerk, JA	Undergraduate agricultural extension qualifications in South Africa: comparing available curricula to desired skills and competencies	10.17159/2413-3221/2023/v51n3a15587	2
Welman-Purchase, MD Hansen, RN	Cyanide within gold mine waste of the Free State Goldfields: a geochemical modelling approach	10.1016/j.envpol.2022.120825	6

1. Yeganeh et al. presented a paper on using evolutionary artificial neural networks in risk-adjusted monitoring of surgical performance.
2. Zulu et al. sent an article on the flavour profile, consumer acceptance, and cooking methods of spekboom leaves.



Authors	Title	DOI	SDGs
Wittstock, G Bäumer, M Dononelli, W Klüner, T Lühns, L Mahr, C Moskaleva, LV Oezaslan, M Risse, T Rosenauer, A Staubitz, A Weissmüller, J Wittstock, A	Nanoporous gold: from structure evolution to functional properties in catalysis and electrochemistry	10.1021/acs.chemrev.2c00751	9
Xia, Y Rebello, V Bodison, SC Jonker, D Steigelmann, B Donald, KA Charles, W Stein, DJ Ipser, J Ahmadi, H Kan, E Sowell, ER Narr, KL Joshi, SH Odendaal, HJ Uban, KA	Contextualising the impact of prenatal alcohol and tobacco exposure on neurodevelopment in a South African birth cohort: an analysis from the socioecological perspective	10.3389/fnint.2023.1104788	3
Yagoub, MYA Swart, HC Coetsee, E	Bulk and surface chemical compositions and microstructure properties of CaF ₂ :Y ₃ +material	10.1116/6.0002279	9
Yagoub, MYA Swart, HC Coetsee, E	Anomalous emission of Yb ²⁺ in CaF ₂ :Tb ³⁺ , Yb ³⁺ up-conversion phosphor	10.1016/j.physb.2023.415298	9
Yang, G Zhang, N Boshoff, WHP Li, H Li, B Li, Z Zheng, Q	Identification and introgression of a novel leaf rust resistance gene from Thinopyrum intermedium chromosome 7Js into wheat	10.1007/s00122-023-04474-z	2
Yeganeh, A Parvizi Amineh, M Shadman, A Shongwe, SC Mohasel, SM	Combination of sequential sampling technique with GLR control charts for monitoring linear profiles based on the random explanatory variables	10.3390/math11071683	9

Authors	Title	DOI	SDGs
Yeganeh, A Shadman, A Shongwe, SC Abbasi, SA	Employing evolutionary artificial neural network in risk-adjusted monitoring of surgical performance	10.1007/s00521-023-08257-x	3
Yeganeh, A Shongwe, SC	A novel application of statistical process control charts in financial market surveillance with the idea of profile monitoring	10.1371/journal.pone.0288627	9
Yekani, S Lazarus, J De Bruyn, M Kaestner, L	A pilot study of a novel syphon ureteral access sheath shows potential to reduce renal pressures and improve irrigant flow	10.1016/j.urology.2023.03.004	3
Yerpude, A Pawade, V Dhoble, S Koao, L	Lanthanide-doped aluminate phosphors: synthesis, properties, and applications	10.1016/C2020-0-03954-X	9
Yimamu, AU Afrassa, MA Dejene, BF Echendu, OK Terblans, JJ Swart, HC Motloun, SJ	Electrodeposition of CdTe thin films using an acetate precursor for solar energy application: the effect of deposition voltage	10.1016/j.mtcomm.2023.105673	7
Yimamu, AU Afrassa, MA Dejene, BF Echendu, OK Tshabalala, KG Terblans, JJ Swart, HC Motloun, SJ	Influence of growth time on the properties of CdTe thin films grown by electrodeposition using acetate precursor for solar energy application	10.1088/2053-1591/acd322	7
Zamani, A Darvishnia, H Marusik, YM	New data on cave spiders (Arachnida: Araneae) of Iran, with new species and records	10.11646/zootaxa.5361.3.3	15
Zamani, A Marusik, YM	New species and records of Oecobius Lucas, 1846 (Araneae: Oecobiidae) from Iran and Azerbaijan	10.1080/00222933.2023.2272356	15
Zamani, A Marusik, YM Szűts, T	A survey of Dysderella Dunin, 1992 (Araneae, Dysderidae), with a new species from Iran	10.3897/ZSE.99.104613	15
Zhang, Q Charles, PD Bendif, EM Hester, SS Mohammad, S Rickaby, REM	Stimulating and toxic effect of chromium on growth and photosynthesis of a marine chlorophyte	10.1111/nph.19376	14
Zhong, J Frood, R McWilliam, A Davey, A Shortall, J Swinton, M Hulson, O West, CM Buckley, D Brown, S Choudhury, A Hoskin, P Henry, A Scarsbrook, A	Prediction of prostate tumour hypoxia using pre-treatment MRI-derived radiomics: preliminary findings	10.1007/s11547-023-01644-3	3
Zhong, J Kobus, M Maitre, P Datta, A Eccles, C Dubec, M McHugh, D Buckley, D Scarsbrook, A Hoskin, P Henry, A Choudhury, A	MRI-guided pelvic radiation therapy: a primer for radiologists	10.1148/rg.230052	3
Zhu, Y Wang, X Qiao, J Molokeev, MS Swart, HC Ning, L Xia, Z	Regulating Eu ²⁺ multisite occupation through structural disorder toward broadband near-infrared emission	10.1021/acs.chemmater.2c03631	7 9
Zulu, AB Bothma, C De Wit, M Du Toit, A	Flavour profile, consumer acceptance, and cooking methods of <i>Portulacaria afra</i> (spekboom) leaves	10.1016/j.ijgfs.2023.100784	2

Authors	Title	DOI	SDGs
Zwane, EM Nekhavhambe, E	Commercialisation of smallholder farmers in Mutale municipality of Vhembe district of Limpopo	10.4018/978-1-6684-4780-2.ch009	2

The dissemination of research and scholarship through platforms such as webinars, public lectures, media, and policy briefs in the Faculty of Natural and Agricultural Sciences is outlined in Table 14.

Table 14: NAS – Dissemination of research and scholarship through platforms such as webinars, public lectures, media, policy briefs (per department)

Name of Academic	Title of presentation
Architecture	
Auret, H	Public lecture (in collaboration with the SAIA Free State): 'King's Park ... a place to be!'
Auret, H Du Preez, K	Conference participation: Abstract accepted for Visual Redress in Africa Conference, titled 'Rescripting contested monuments amid shifting regionings of concern'
Olivier, J	Conference and webinar Liminal characters, places and times: urban histories of Cape Town
Olivier, J	Stakeholder discussion between the South African Institute of Architects (Free State and Northern Cape) and the Mangaung Municipality: Redevelopment of Mangaung. I was invited to participate in the conversation as a member of the UFS Department of Architecture. I was asked to discuss urban challenges facing the CBD and approaches towards urban renewal followed by the Department of Architecture in the Honours curriculum
Olivier, J	Public talk Fun in the City: C the centre of the CBD (public stakeholder engagement to revitalise the CBD of Bloemfontein)
Olivier, J	Local Cultures – Global Spaces Conference, category: Decolonising spatial theories, pedagogies and practices Architecture, ethics, and transformative pedagogy: exploring the decolonisation and re-diagramming of institutional learning and residential spaces
Olivier, J Du Preez, K	Public lecture and guided city walk Axis of time: walking through the architectural and event histories of Bloemfontein CBD
Du Preez, K Olivier, J	Public lecture and guided city walk Axis of time: walking through the architectural and event histories of Bloemfontein CBD
Mosidi, O	Nervous conditions: missionary myths and misconceptions, religion and the sacredness of space
Mosidi, O	Nervous conditions: The exploration of gender issues and the position of the black woman in society and architecture
Bosman, G	UIA World Congress of Architects
Bosman, G	Litema rural art and architecture: global acts of care. Fifth National Global Change Conference
Bosman, G	Daughters of Litema: revering temporal rural earth art across the Free State in South Africa
Noble, J	Book launch and lecture, 'The architecture of Peter Rich: conversations with Africa'
Noble, J	Public lecture, 'The architecture of Peter Rich: conversations with Africa'
Noble, J	Public lecture, 'The architecture of Peter Rich: conversations with Africa'



1.

1. Olivier J represented the UFS Department of Architecture at a discussion between the South African Institute of Architects and the Mangaung Municipality on the redevelopment of Mangaung. He focused on urban challenges and approaches to renewal.

Name of Academic	Title of presentation
Noble, J	'What is design research? And why it matters'
Peters, W	ICOMOS international conference: Monuments and sites de-colonial. Methods and strategies of dealing with the architectural heritage of the German colonial era

Institute for Groundwater Studies

Lukas, E (co-author)	Groundwater potential and lateral connectivity of the Limpopo Sand River system mitigating water scarcity and salinity in semi-arid Mozambique
De Lange, F	Groundwater assessments and research in general: service to farmers
De Lange, F	Practical drilling guidelines
De Lange, F	Researching fracking in the Karoo: summary of lessons learned
De Lange, F (co-author)	Registration of groundwater use
De Lange, F (co-author)	Research-based exploration of deep groundwater within the eastern limb of the Bushveld Complex
De Lange, F (co-author)	Machine learning applied to pumping test analysis
De Lange, F (co-author)	A review of slug tests analysis on South African aquifers in potential yield and transmissivity estimations
Lourens, P	Basic groundwater concepts
Lourens, P (co-author)	Cost-effective method to depressurise perched aquifers to prevent slope failures in open-pit mines, South Africa

Name of Academic	Title of presentation
Lourens, P (co-author)	Managed aquifer recharge within the Greater Kruger National Park and implementation of recharge scheme
Fourie, F (co-author)	Emplacement dynamics of impact melt dikes: evidence from the Lesutuskraal Pavement, Vredefort, South Africa, derived from high-resolution unmanned aerial vehicle orthophotography
Fourie, F (co-author)	Groundwater potential and lateral connectivity of the Limpopo Sand River system mitigating water scarcity and salinity in semi-arid Mozambique
Gomo, M	Hydrogeology on the interactions of the pans and groundwater in the Khakhea – Bray transboundary aquifer
Gomo, M	Hydrogeochemical controls of salinity in circumneutral coalmine groundwater
Gomo, M	Hydrogeochemical controls of salinity in a typical circumneutral coalmine groundwater
Gomo, M	An overview of groundwater development and supply schemes in rural sub-Saharan Africa
Gomo, M	Experience with the electrical potential difference-audio magnetotelluric (EPD-AMT) groundwater detector geophysical equipment in groundwater exploration
Gomo, M	Guest editor for special issue (Africa Waters) in the <i>Sustainable Water Resources Management</i> journal (continuation from 2022)

Mathematics and Applied Mathematics

Budde, C	Non-autonomous Desch–Schappacher perturbations
Budde, C	Well-posedness of non-autonomous transport equation on metric graphs
Budde, C	Quantum dynamical semigroups and its generators
Budde, C	On Trotter–Kato type inductive limits in the category of C_0 -semigroups
Maritz, E	Graph theory applications in grid-related research
Maritz, E	Enhancing graduate attributes: developing logic, reasoning and practical skills in mathematics using blended learning
Terefe, Y	Analysis of war and conflict on the transmission dynamics of the tenth Ebola outbreak
Terefe, Y	Impact of self-protection measures to reduce antibiotic resistant gonorrhoea infection
Terefe, Y	The use of perfect vaccination and awareness campaign in the control of antibiotic resistant gonorrhoea infection: mathematical perspective
Vetrik, T	The metric dimension and the partition dimension of graphs
Vetrik, T	The degree-diameter problem

Soil, Crop, and Climate Sciences

Mc Lean, C	Can plants and microbial activity be used to indicate soil degradation of alpine soils situated in the northern Drakensberg, South Africa?
Van der Watt, E	Hoe reageer koring op klimaatsverandering



1.



2.

1. Franke L delivered a presentation on hybrid potatoes in the Combined Congress.
2. Gomo, M delivered a presentation on groundwater development and supply schemes in rural sub-Saharan Africa.

Name of Academic	Title of presentation
Kotze, E	Siil Health – OFM talk
Barnard, JH (Johnny)	Economic management of conjunctive use of irrigation water and root accessible groundwater
Barnard, JH (Johnny)	Economic management of conjunctive use of irrigation water and root accessible groundwater
Barnard, JH (Johnny)	Verminder die impak van beurtkrag op gewasproduksie onder besproeiing (Reduce the impact of load shedding on crop production under irrigation)
Barnard, JH (Johnny)	Water resource and soil physical property assessment for crop production
Barnard, JH (Johnny)	Beste besproeiingspraktyke: lesse van plase in sentraal-Suid-Afrika (Best irrigation practices: lessons from farms in central South Africa)
Franke, L	Interviews with OFM radio on agricultural issues
Franke, L	Presentation on hybrid potatoes in the Combined Congress
Ceronio, GM	Biotic and abiotic dynamics of long-term rotation and tillage
Ceronio, GM Du Preez, CC	Soil fertility and plant nutrition
Erasmus, S	UFS Carbon Report
Araya, T	Improving productivity, resilience, and sustainability through conservation agriculture systems in sandy loam soils in Eastern Cape, South Africa

Name of Academic	Title of presentation
Disaster Management Training and Education Centre for Africa	
Ogundeji, A	Economics for disaster prevention and preparedness
Ogundeji, A	Climate information pathways and farmers' adaptative capacity
Ogundeji, A	Heterogenous impacts of greenhouse farming technology as climate-smart agriculture on household welfare in Ghana
Ogundeji, A	Impact of women empowerment on adoption of climate change adaptation strategies
Ogundeji, A	Impact of agroecological practices on farm performance in Botswana
Ogundeji, A	Greenhouse farming technology as climate-smart agriculture: heterogenous effects on farm performance in Ghana
Belle, JA	The impact of solid waste dumpsite on vulnerable communities: a case of Tsosane in Lesotho
Belle, JA	Flood risk management; the essential role of cities and importance of municipal preparedness
Belle, JA	Panel discussion on 'Risk informed development'
Belle, JA	Outlook of agriculture and agro-processing in the Free State province
Belle, JA	Environment and Emergencies Forum (EEF)
Kunguma, O	Blurring the voices of the working migrants: media influence on migration in South Africa
Kunguma, O	Disaster declaration process, hazard custodianship and institutional arrangements
Kunguma, O	Disaster declaration process and the media: a case study of Jagersfontein Dam collapse
Kunguma, O	Significance of scientific research/Disaster studies in disaster management
Raphela, TD	The impact of Lantana camara on invertebrates and plant species of the Groenkloof Nature Reserve, South Africa. Fifth Global Change Conference
Raphela, TD	Fire safety management in the artificial intelligence era in developing countries. (Pre-recorded International Scientific Conference, virtual)
Raphela, TD	The COVID-19 pandemic and its mental impact on Motor Industry Workers in South Africa. The Seventh International Symposium on Natural Hazard-Triggered Technological Accidents. (Pre-recorded International Scientific Conference Natech 2023 (Virtual). IDRM
Raphela, TD	Exploring the effectiveness of community-based conservation initiatives in promoting biodiversity conservation and sustainable ecosystem management in Africa
Geography	
Van der Walt, A	Heat stress is rising in Southern Africa – climate experts show where and when it is worst
Van der Walt, A	Spatiotemporal variability in vegetation coverage and land surface temperature in the city of Bloemfontein, South Africa
Van der Walt, A	Spatiotemporal analysis of heavy rainfall events across the Free State: 1981–2022



1. Belle, JA presented on the importance of municipal preparedness in flood risk management for cities.
2. Stander M delivered a presentation on using spectral reflectance measurements to better discriminate between soil types as sediment sources.

Name of Academic	Title of presentation
Van der Walt, A	Introduction to Geography, Creative Clubs
Van der Walt, A	The future of water in agriculture: access, quality, and climate change
Van der Walt, A	South Africa's cold weather has arrived – some tips on how to stay warm and safe
Van der Walt, A	Exploring extreme warm temperature trends in South Africa: 1960–2016
Van der Walt, A	Spatiotemporal characteristics of human thermal comfort across Southern Africa: an analysis of the universal thermal climate index (UTCI) for 1971–2021.
Van der Walt, A	Weather Bureau warns of another cold front
Van der Walt, A	Exploring biometeorology – spatiotemporal characteristics of human thermal comfort across Southern Africa
Van der Walt, A	Climate change information workshop – National Planning Commission
Van der Walt, A	Regional specific studies of extreme temperatures and human thermal comfort across Southern Africa
Stander, M	Spectral reflectance measurements to increase discrimination between soil types as sediment sources
Stander, M	Apportioning soil types as source groups by using weathering indices as tracers

Name of Academic	Title of presentation
Microbiology and Biochemistry	
Ogundeji, A Pohl-Albertyn, C	Biodiversity biobanks SA yeast culture collection, UFS: meeting the needs of researchers
Ogundeji, A Gcilitshana, O Albertyn, J Pohl-Albertyn, C Sebolai, O	Activation of SARS-CoV-2 spike protein by a fungal protease(s)
Ogundeji, A Swart, V Kemp, G Albertyn, J Pohl-Albertyn, C	Biodegradation of esfenvalerate by yeast isolates from brown locust guts
Thusi, AX Dos Ramos, SM Tolmie, C Albertyn, J O'Neill, HG	Evaluation of cytokine responses in macrophage-like cells induced by a rotavirus NSP4-VP4 fusion protein
Viljoen, BC	Teaching, education of rural people based on mushroom production, Vaalharts Pecans Marketing (PTY)
Viljoen, BC	Teaching, education of workers at Forever Mushrooms
Viljoen, BC	Public presentation on application of mushrooms in human health
Fourie, C Ogunyinka, MI Legisa, DM Blasco, M Albertyn, J O'Neill, HG	Analysis of microbially produced Rotavirus VP6 as a subunit vaccine candidate
Tolmie, C	Structural studies of squalene synthase from Candida albicans for developing novel antifungal therapies
Pohl-Albertyn, C	Evaluating the efficacy of supramolecular self-associating amphiphiles as novel antifungal substances against Candida albicans
Pohl-Albertyn, C	Evaluating the efficacy of supramolecular self-associating amphiphiles as novel antifungal substances against Candida albicans biofilms
Pohl-Albertyn, C	UV-navorsers soek kuur vir dodelike swaminfeksies
Pohl-Albertyn, C	UFS researchers investigate deadly fungi affecting millions in South Africa
Pohl-Albertyn, C	Fungi in water pose great risk to immune-compromised individuals
Pohl-Albertyn, C	The deadly fungi that infect over three million in SA every year
Pohl-Albertyn, C O'Neill, H	Rotavirus NSP4-mediated increase in intracellular calcium results in increased levels of the pro-inflammatory eicosanoid, prostaglandin E2, during infection
Pohl-Albertyn, C Sebolai, O	The potential influence of amoebal predation on Cryptococcus neoformans and its virulence



1. Viljoen BC presented on educating rural people in mushroom production, focusing on Vaalharts Pecans Marketing (PTY).
2. Opperman and Tolmie delivered a presentation on biocatalytic degradation of recalcitrant biopolymers.

Name of Academic	Title of presentation
Pohl-Albertyn, C Sebolai, O	Activation of SARS-CoV-2 spike protein by a fungal protease(s)
Opperman, DJ Tolmie, C	Biocatalytic degradation of recalcitrant biopolymers
Opperman, DJ Smit, MS	H2O2-driven biocatalytic oxyfunctionalisation reactions
Opperman, DJ Smit, MS	Investigating functionally relevant residues in cytochrome P450 monooxygenases using a 3D class specific molecular information system
Opperman, DJ Smit, MS	Cytochrome P450 reductase efficiencies in the biotransformation of fatty acids by CYP52A21
Opperman, DJ Smit, MS	New natural CYPs displaying peroxygenase activity mediated via alternative heme environments
Van Zyl, WF	Use of the mCherry fluorescent protein to optimise the expression of class I lanthipeptides in Escherichia coli
Kemp, G Pohl-Albertyn, C Sebolai, O	Evaluation of the crude extract of Artemisia tea to control the growth of the fungus Cryptococcus neoformans
Albertyn, J Pohl-Albertyn, C	Biofilms on urban aquatic plastic pollution as a reservoir for pathogenic yeasts
Albertyn, J Pohl-Albertyn, C	Molecular investigation of prostaglandin E2 production in Candida auris

1. Hugo C presented on the effect of sodium reduction and potassium chloride replacement on the survival of *Escherichia coli* and *Staphylococcus aureus* in Feta cheese.
2. Hugo C presented on the impact of salt reduction and salt replacer combinations on dry sausage quality.



Name of Academic	Title of presentation
Albertyn, J Pohl-Albertyn, C	Construction of a single gRNA expression vector to facilitate RNA-guided CRISPR-Cas9 gene editing for <i>Candida auris</i>
Albertyn, J Pohl-Albertyn, C	Biofilms on urban aquatic plastic pollution as a reservoir for pathogenic yeasts
Albertyn, J Pohl-Albertyn, C	The role of the high osmolarity glycerol (HOG) response pathway in <i>Candida auris</i>
Albertyn, J Pohl-Albertyn, C	Molecular investigation of the multidrug resistance of <i>Candida auris</i> , focusing on the ABC transporters
Albertyn, J Pohl-Albertyn, C	Effect of polyunsaturated fatty acids and eicosanoids on <i>Candida albicans</i> germination
Albertyn, J Pohl-Albertyn, C	Investigating the lipases of the multi-drug resistant yeast, <i>Candida auris</i>
Albertyn, J Pohl-Albertyn, C	The impact of FET99 deletion on the fluconazole susceptibility and lipid droplet formation of <i>Candida albicans</i>
Albertyn, J Pohl-Albertyn, C	Investigation of the influence of vacuolar iron permease, Fth2p, on lipids of <i>Candida albicans</i> during competition for iron

Name of Academic	Title of presentation
Albertyn, J Pohl-Albertyn, C Sebolai, O	Characterisation of <i>Cryptococcus albidus</i> growth and virulence potential
Albertyn, J Pohl-Albertyn, C Sebolai, O	The repurposing of aspirin as a photo- and chemo-sensitising agent to inactivate the growth of <i>Staphylococcus aureus</i>
Visser, M Potgieter, C O'Neill, HG Van Dijk, AA	Generating rotavirus reassortants with spike proteins from human and bovine strains for the development of region-specific vaccine candidates
Barron, N Strydom, A Strydom, M Steyn, T O'Neill, HG	Surveillance and genome characterisation of bovine rotavirus in the Western Cape and Free State provinces of South Africa
Sebolai, O	Plenary talk: Viral and fungal co-infections: the in vitro role of <i>Aspergillus</i> protease(s) in the activation of the SARS-CoV-2 spike protein
Gcilitshana, O Albertyn, J Pohl-Albertyn, C	The role of phospholipases in <i>Candida auris</i> pathogenicity
Letebele, P Albertyn, J Pohl-Albertyn, C	Role of EHT1, encoding octanoyl-CoA: ethanol acyltransferase, in <i>Candida albicans</i> biofilm lipid droplet
Sander, WJ Pohl, CH O'Neill, HG	Rotavirus NSP4-mediated increase in intracellular calcium results in increased levels of the pro-inflammatory eicosanoid, prostaglandin E2, during infection
Hugo, C	The effect of sodium reduction and replacement by potassium chloride on the survival of <i>Escherichia coli</i> ATCC 8739™ and <i>Staphylococcus aureus</i> ATCC 25923™ in Feta cheese
Hugo, C	The effect of salt reduction and salt replacer combinations on the chemical, microbial and sensory quality of dry sausage
Hugo, C	The effect of salt reduction and salt replacers as sodium reduction strategies on the chemical, microbial, and sensory quality of biltong, a traditional South African intermediate moisture meat product
Osthoff, G	Milk composition of non-dairy species
Osthoff, G	Interconnection of nutrients and metabolites of African elephant milk
Bragg, R Swart, W Mc Carlie, S	Opinion article – The approaching storm of disinfectant resistance 9 May 2023
Bragg, R	What do you need to know about cholera?
Bragg, R Swart, W Mc Carlie, S	The approaching storm of disinfectant resistance

Name of Academic	Title of presentation
Bragg, R	Scrambled or sunny side up?
Bragg, R	Getting technical
Bragg, R	COVID-19
Bragg, R	Opinion article by Prof Robert Bragg – Poultry sector in crisis
Physics	
Mashalane, AO	The effect of annealing temperature on the phase change of spin coated Y2SiO5:Ce3+ on silicon (100) substrate
Yimamu, AU	The effect of electrolytic pH on the properties of electrodeposited CdTe thin films for solar energy application
Kotlov, A	Persistent luminescence of Sr3SiO5:Eu2+,R3+ (R: Y, La-Nd, Sm-Lu,)
Tladi, BC	Effect of graphene oxide coatings on the optical properties of pulsed laser deposited ZnO:Zn thin films
Thamaga, BRJ	Structure, optical, and low-temperature detection of acetone induced by p-n NiO-CeO2 decorated with Ag nanoparticles
Van Soelen, B et al	Spectral classification of the main-sequence counterpart in the gamma-ray binary HESS J1832-093
Van Soelen, B et al	Optical properties of gamma-ray binaries with O-type stars
Joubert, C	Multifunctional nano-TbO2: oxygen retention, nanopigment, paramagnet
Coetsee, E	Fluorescence properties of Tb4+ and Tb3+ inter-conversion states in CaF2 phosphor material
Ntshalintshali, D	Novel white light emitting CdSe:x%Mn2+ (0 ≤ x ≤ 0.7) synthesised by PCBD for application in LEDs
Van Jaarsveldt, DP	Encouraging a positive attitude towards science through outreach activities at the Boyden Observatory
Van Jaarsveldt, DP	Encouraging a positive attitude towards science among girls through outreach activities at the Boyden Observatory
Coetsee, E	Fluorescence properties of Tb4+ and Tb3+ inter-conversion states in CaF2 phosphor material
Lee, E	Strontium vanadate a possible addition to transparent conductive thin films
Hasabeldaim, E	Stability of Y2O3:Tm,Yb phosphor thin films during upconversion and cathodoluminescence
Odendaal, GJ	Reduction methods for Sm3+ to Sm2+ in strontium borates for solar energy applications.
Odendaal, GJ	Reduction methods for Sm3+ to Sm2+ in strontium borates for solar energy applications
Nair, GB	Rod-shaped LaOF:Yb3+,Er3+ upconversion nanoparticles for nanothermometry
Nair, GB	Laser-induced heating decimated luminescence nanothermometry using robust LaOF:Yb3+, Er3+ upconversion nanophosphor
Swart, HC	Applications of AES, XPS and TOF SIMS to phosphor nanomaterials



1. Van Jaarsveldt, DP presented on promoting a positive attitude towards science among girls through outreach activities at the Boyden Observatory.
2. Van Soelen and Barnard delivered a presentation on an optical spectropolarimetric survey of high-energy blazars.

Name of Academic	Title of presentation
Swart, HC	Tutorial lecture on luminescence
Swart, HC	Application of surface characterization techniques to luminescent materials
Swart, HC	The use of surface characterisation techniques in photonics
Swart, HC	Applications of AES, XPS and TOF SIMS to phosphor nanomaterials
Swart, HC	Surface characterisation techniques used in emissive materials
Ayoub, I	Structural and optical characteristics of green emitting Tb ³⁺ doped BaGd ₂ ZnO ₅ nanophosphor for LED applications
Charak, I	Comprehensive structural and luminescence investigation of yellow-white emitting Ca ₂ B ₂ O ₅ :Dy ³⁺ phosphors for UV-based white LED applications
Divya, J	Structural and optical characteristics of Ho ³⁺ doped α-Bi ₂ O ₃ thin films deposited by pulsed laser deposition on glass substrates
Barnard, J van Soelen, B et al.	An optical spectropolarimetric survey of high-energy blazars
Tshabalala, KG	Optimisation of cathodic deposition voltage for CdZrS thin films
Tshabalala, KG	Effect of the deposition voltage on the properties of the electrodeposited CdZrS thin films for solar cell application
Tshabalala, KG	Nanotechnology-based supercapacitor energy storage with microcontroller monitoring for application in battery-less electronics

1. Erasmus, LJB did a presentation, titled: Out there.



Name of Academic	Title of presentation
Morebodi, KB	The effects of Eu ³⁺ concentration on the photoluminescence of Na ₄ Ca(PO ₃) ₆ :Eu ³⁺ phosphors prepared by a solid state reaction method
Koao, LF	Effect of annealing time on CdSe thin films prepared by photo-assisted chemical bath deposition
Erasmus, LJB	Public show: Out there
Erasmus, LJB	Fifth National Global Change Conference: Integrating a phosphor into a waveguide for solar application
Erasmus, LJB	Public show: Valentine's Day show
Erasmus, LJB	Public show: Unveiling the invisible universe
Erasmus, LJB	Public show: Seeing
Erasmus, LJB	Ninth South African Conference on Photonic Materials: Integrating a phosphor material into an optical waveguide
Erasmus, LJB	Public show: Dark universe
Erasmus, LJB	Private show for University of the Third Age (U3A): James Webb Space Telescope show
Erasmus, LJB	Public show: Phantom of the universe
Erasmus, LJB	Private show for Department of Afrikaans and Dutch: Vanaf die aarde na die heelal
Erasmus, LJB	Public show: Ted Space Adventures

Name of Academic	Title of presentation
Erasmus, LJB	Public show: Out there
Erasmus, LJB	Public show: James Webb Space Telescope show
Erasmus, LJB	Public show: Vanaf die aarde na die heelal
Erasmus, LJB	Public show: Cosmic collisions
Erasmus, LJB	Photo of astronomical phenomena: 'Bloemhenge'
Erasmus, LJB	Public show: Phantom of the universe
Erasmus, LJB	Public show: Marie Antoinette
Erasmus, LJB	Public show: Dark universe
Mohi ud din, L	Effect of Tb ³⁺ doping on the photoluminescence properties of zirconia nanophosphors synthesised via sol-gel route for LED applications
Koao, LF	Effect of Cr ³⁺ on the SiO ₂ nanoparticles prepared via sol-gel method
Koao, LF	The influence of a binary phase ZnO-CuO on the poly-ε-caprolactone based nanocomposites
Erasmus, LJB	Integrating a phosphor material into an optical waveguide
Yagoub, MYA	Anomalous emission of Yb ²⁺ in CaF ₂ :Tb ³⁺ , Yb ³⁺ up-conversion phosphor
Duvenhage, M	The effect of annealing temperature on the phase change of spin coated Y ₂ SiO ₅ :Ce ³⁺ on silicon (100) substrate
Lastusaari, M	R ³⁺ co-doping in persistent luminescence materials: pros and cons
Kgomo, M	Highly ethanol responsive nanosensor layer based on mesoporous nanostructured cube-like indium oxide: effects of Co, Ni and Cu dopants
Motloun, SJ	Effect of electrolytic pH on properties of electrodeposited CdTe thin film for solar energy application
Motloun, SJ	Effect of the deposition voltage on the properties of the electrodeposited CdZrS thin films for solar cells application
Motloun, SJ	Optimisation of cathodic deposition voltage for CdZrS thin films
Motloun, SJ	Deposition time-dependent properties of electrodeposited CdSe thin films from cadmium nitrate source for energy harvesting application
Nemufulwi, M	Preparation of highly sensitive Cr doped ZnFe ₂ O ₄ fibre-like sensors for selective acetone detection
Saeed, NAM	Visible/infrared emission investigation of YOF:Ho ³⁺ co-doped with Yb ³⁺
Saeed, NAM	Influence of annealing temperature on the crystal structural, morphology and photoluminescence of BaAl ₂ O ₄ :Eu
Matchett, N Van Soelen, B Gray, R	Investigating the orbital parameters of the gamma-ray binary HESS J0632+057

Name of Academic	Title of presentation
Matchett, N Van Soelen, B Gray, R	Investigating the orbital solution of HESS J0632+057
Hussain, N	Colour tuneable nano-crystalline Ba ₂ Nd ₈ (SiO ₄) ₆ O ₂ :Tb ³⁺ phosphor for solid state lighting
Meintjes, PJ	Cosmic power stations: Highly magnetised white dwarfs and their high-energy emission
Immelman, R Van der Westhuizen, IP Van Soelen, B et al.	Modelling optical emission and polarisation of relativistic AGN jets using RMHD simulations (poster)
Harris, RA	The <i>in-silico</i> investigation of the synthesis, physicochemical properties and lipid bilayer interactions of iron-oxide, gold, and silver nanoparticles
Harris, RA	Producing ZnO nanostructures that exhibit NIR luminescence with a templated design procedure
Harris, RA	Multivalued logic devices based on quantum tunnelling
Harris, RA	In-silico models: modelling and simulations for nanotoxicology
Singh, R	Sr ₃ (PO ₄) ₂ :Sm ³⁺ – a promising yellow-emitting phosphor candidate for luminescence Boltzmann thermometers
Motsoeneng, RG	The influence of Fe loading on the optical and gas sensing characteristics of ZnO/SnO ₂ heterostructures
Makole, R	The study of the synergistic effects of Yb ³⁺ rare-earth ions on the luminescence and gas sensing properties of Co ₃ O ₄ -In ₂ O ₃ heterostructure
Panchu, SJ	Encapsulation of Si QDs in europium-doped zeolitic imidazole framework (Eu-ZIF-8) for photoluminescence tuning
Ogugua, SN	Synthesis and the thermometry properties of Sr ₂ .9Al ₂ O ₅ Cl ₂ :0.1Eu ²⁺ phosphor
Tamboli, S	Microwave-assisted hydrothermal synthesis of LaOF:Pr ³⁺ for optical thermometry
Theka, TJ	Fabrication of metal organic frameworks derived Co ₃ O ₄ semiconductor metal oxides loaded on TiO ₂ : influence of Fe loading on the optical and chemiresistive characteristics of Co ₃ O ₄ /TiO ₂ heterostructure
Mokoena, TP	Red emission stimulated by electric-dipole transition of Eu ³⁺ -codoped MgAl ₂ O ₄ :Sm ³⁺ nanophosphors synthesised via citrate sol-gel method
Mokoena, TP	Development of nanostructured materials for gas sensing and luminescence applications
Mushtaq, U	Structural and photoluminescence properties of Ho doped BaAl ₂ O ₄ phosphors
Makumbane, V	Pulsed laser deposition of Y ₂ O ₃ :Ho ³⁺ , Yb ³⁺ upconversion: study of the structure and luminescence under laser pulses
Smit, W Van Heerden, HJ Van Soelen, B	Characterising the FLI KL4040 sCMOS camera for the Boyden Observatory
Tshabalala, Z	Influence of Pt-loading on the energy band gap and VOCs sensing of metal titanate perovskite



1. Meintjes, PJ delivered a presentation on cosmic power stations: Highly magnetised white dwarfs and their high-energy emission.
2. Smit et al. presented on characterising the FLI KL4040 sCMOS camera for the Boyden Observatory.

Name of Academic	Title of presentation
Centre for Environmental Management	
Avenant, MF	Comprehensive monitoring of surface water in the Qwaqwa area (South Africa) combining chemical and biological in-vitro tests
Avenant, MF	Reviewing a master's curriculum in Climate Change and Sustainable Development: data collection and analyses
Avenant, MF	Programme implementation: master's degree in Climate Change and Sustainable Development
Conference: Posters	
Esterhuyse, S	A conceptual model for methane occurrences in the Western Karoo as part of a geochemical baseline for shale gas development
Esterhuyse, S	Mitigating climate change with managed aquifer recharge: five case studies
Esterhuyse, S	Recharge under review: implications for water resources management
Oberholster, PJ	Environmental exposure assessment of product-released engineered nanomaterials (PR-ENMs) from commercial products
Oberholster, PJ	Global change and the water-energy-food nexus
Oberholster, PJ	Water, energy food nexus in relationship with climate change and water reuse in the upper Olifants River catchment

1. Oberholster, PJ presented on pathways and receptors of metals and sulphate in the Zaalklapspruit wetland.



Name of Academic	Title of presentation
Oberholster, PJ	Aquatic risk assessment of product-released engineered nanomaterials (PR-ENMs) from personal care products
Oberholster, PJ	Climate change adaptation through natural base solutions to improve the reuse of wastewater: an African case study
Oberholster, PJ	South African Colliery Managers' Association (SACMA). Pathways and receptors of metals and sulphate in the Zaalklapspruit wetland
Oberholster, PJ	The pathways and receptors of metals and sulphate in an ecologically engineered wetland that receives acid mine drainage
Oberholster, PJ	A proposed urban biosphere reserve model concept for the City of Tshwane as a bio-intelligent approach to mitigate climate change
Oberholster, PJ	The ecological engineering nexus accounting framework: a tool for impact valuation of ecological engineering projects
Oberholster, PJ	Assessing an ecological engineered wetland receiving AMD over a period of nine years using water quality and periphyton
Oberholster, PJ	The ecological engineering nexus accounting framework: advancing impact valuation for sustainable conservation practices in a South African provincial park
Oberholster, PJ	Towards sustainable water management: a novel classification system for ecological engineering solutions as new-order anthromes in human-modified landscapes
Oberholster, PJ	Charting a new course: advancing sustainable management through the managerial-ecology model in luxury game lodges
Oberholster, PJ	Groundwater dependent ecosystems or wetland dependent groundwater systems – a case study

Name of Academic	Title of presentation
Oberholster, PJ	Advancing impact valuation for sustainable conservation practices in a South African provincial park
Ololade, O	Indigenous microorganisms and the bioavailability of organic matter drive the mobilisation of potentially toxic elements and rare-earth elements in alkaline mine wastes
Chemistry	
Langner, EHG	CO ₂ adsorption and fixation by ZIF nanoparticles, Chem4Energy Conference 2023 (oral presentation)
Wilhelm, A	Industry Engagement and Mentoring Programme 2023 presentation. Bioassay guided fractionation and larval zebrafish locomotor bioassay
Marais, C	Tanya Pieterse, Charlene Marais, Barend CB Bezuidenhout. Natural product mimics via metathesis (poster)
Marais, C	Melanie Visser; Barend CB Bezuidenhout; Charlene Marais. Aspalathin: a new synthetic approach. Presentation to the South African Medical Research Council (SAMRC) and the UFS Directorate Research Development
Mofokeng, JP	Dr Mofokeng from the University of the Free State (Qwaqwa Campus), South Africa, and Dr Nagi Greesh from the Libyan Advanced Centre for Chemical Analysis (LACCA) in Libya, have just established a research collaboration and are in the process of signing the Memorandum of Understanding between the two institutions. Dr Mofokeng attended the African Research Universities Alliance (ARUA) Capacity Building workshop, under the theme: 'Building capacity for sustainable development in materials, energy, and nanotechnology' hosted at WITS University from 31 July 2023 to 3 August 2023. She also attended the Transformation of the Professoriate Mentoring Programme writing retreat that took place in the last week of June 2023 (26–29 June 2023). Colleagues who work quantitatively or use mixed methods designs will find the writing retreat of great value. The facilitator was Prof Catherine Comiskey from Trinity College Dublin and Academic Director of CHARM-EU, a collaboration of five EU universities. The paper discussed there has been submitted for publication, pending the results – LS Mokoena, JP Mofokeng. <i>The synthesis and characterisation of graphene oxide (GO) for the removal of lead ions in water</i>
Mngomezulu, M	Dr Mofokeng and I were involved in a collaboration with Nelson Mandela University (NMU) and Vaal University of Technology (VUT) and co-authored the publication (https://doi.org/10.1016/j.heliyon.2023.e21238) that was just published by <i>Heliyon</i> this month
Schutte-Smith, M	L Liebenberg, M Schutte-Smith, HG Visser. Oral presentation – Prize: third place in Session 3C. 'Die sintese en evaluasie van 'n reeks amino-ouroonderivate en hul renium(I) trikarbonielkomplekse as moontlike antikankermiddels'
Schutte-Smith, M	U du Plessis, HG Visser, M Schutte-Smith. Oral presentation. 'Die studie van renium en goud metaalverbindinge as anti-kanker en anti-mikrobale middels
Schutte-Smith, M	Blignaut, HG Visser, M Schutte-Smith. Prize: Afrikaans spell-check software valid for one year. Oral presentation. 'Rutenium(II) komplekse met fosfen knyperligande: karakterisering en teenkankertoetse
Brink, A	Fragments and clusters: [Re(CO) ₃] ⁺ on the interface between small molecules and protein
Brink, A	Brink, A, Jacobs, FJF, Helliwell, JR, Roodt, A, Alberto, R. The wonderland of multinuclear Mn, Tc and Re complexes in small molecule and macromolecular drug development (oral)
Conradie, J	Keynote 2023: Ruthenium(II) complexes containing substituted 2,2':6',2''-terpyridines: is it possible to predict accurate redox potentials with density functional theory methods? 53rd Heyrovský Discussion

1. Prof Frikkie Maré.
2. Mare, F delivered a presentation: Red meat prices in perspective.



Name of Academic	Title of presentation
Conradie, J	Invited Plenary 2023: The redox chemistry of bidentate ligands and their metal complexes: electronic influence of substituent groups, Sixth International Symposium on Electrochemistry, ElectrochemSA. Book of Abstracts p. 45, https://www.saci.co.za/ElectrochemSA/6th_home.html
Conradie, J	Jeanet Conradie, Marrigje Marianne Conradie, Nandisiwe Ghandi Sibongile Mateyise, Poster 2023. Redox chemistry of substituted 2,2':6,2''-terpyridines and their Ru(II) complexes, Sixth International Symposium on Electrochemistry, ElectrochemSA. Poster P39, https://www.saci.co.za/ElectrochemSA/6th_home.html
Conradie, J	Alhadji Malloum, Jeanet Conradie, Poster. Quantum cluster equilibrium prediction of liquid ethanol, Third African Conference on Fundamental and Applied Physics (ACP2023), poster ID #117. Abstract book p. 37, https://indico.cern.ch/event/1229551/
Conradie, J	Alhadji Malloum, Jeanet Conradie, Poster 39. Method to calculate the adsorption free energy of a pollutant as function of temperature. https://commonwealthchemistry.org/event/4th-commonwealth-chemistry-posters/
Conradie, J	Nandisiwe Ghandi Sibongile Mateyise, Marrigje Marianne Conradie, Jeanet Conradie, Poster 19. CV and UV of bis(2,2':6',2''-terpyridine)ruthenium – application in dye-sensitised solar cell (DSSC). https://commonwealthchemistry.org/event/4th-commonwealth-chemistry-posters/
Conradie, J	David Ugwu, Jeanet Conradie, Poster 255. Recent advances in cancer drug discovery using bidentate ligand complexes. https://commonwealthchemistry.org/event/4th-commonwealth-chemistry-posters/
Moskaleva, L	Lyudmila Moskaleva, Lenard Carroll, Yong Li, Wilke Dononelli, Marcus Bäumer. Insight into surface chemistry and catalysis on nanoporous gold from modelling studies (presented by L Moskaleva in a keynote lecture)
Moskaleva, L	Lyudmila Moskaleva. Computational studies of oxidation catalysis on nanoporous gold (invited talk at the Symposium of the Research Unit NAGOCAT)

Name of Academic	Title of presentation
Moskaleva, L	Lenard Carroll, Lyudmila Moskaleva. Investigating the self-organisation of oxygen atoms on top of nanoporous gold surfaces with and without the effect of additional adsorbates. Poster presentation by L Carroll
Moskaleva, L	Lenard Carroll, Lyudmila Moskaleva. Investigating the catalysis on nanoporous gold surfaces using AIMD simulations: self-organisation, reactivity, and restructuring. Oral presentation by L Carroll
Moskaleva, L	Lenard Carroll, Lyudmila Moskaleva. Computational modelling of catalysis on nanoporous gold: studying the self-organisation of oxygen atoms, surface restructuring and reactivity with AIMD simulations. Oral presentation by L Carroll
Moskaleva, L	Kgalaletso P Otukile, Lyudmila V Moskaleva, Saurabh C Kandpal, Rhaghu, Cameron Matthews. A comprehensive theoretical investigation of selected low-temperature hydrocarbon combustion reactions. Poster presentation by Kgalaletso Otukile
Moskaleva, L	Lenard Carroll, Lyudmila Moskaleva. Self-organisation, restructuring, and reactivity: computational modelling of catalysis on nanoporous gold using AIMD simulations. Poster presentation by L Carroll
Visser, HG	Attended prize-giving of the 'Suid-Afrikaanse Akademie vir Wetenskap en Tegnologie'

Agricultural Economics

Yonas, B	Smallholder livestock farmers coping and adaptation strategies to agricultural drought in South Africa (Bahta, YT)
Yonas, B	Towards an automated, urban resilience, agile operational housing system framework: a case study of Khayalitjha in situ informal settlement upgrading; South Africa
Yonas, B	Export competitiveness of Namibia's timber sector: implication for forestry sector
Yonas, B	Transforming human settlement through an urban resilience agile operational model: a case study of Khayelitsha in situ informal settlement upgrading; South Africa
Jammer, B	Hommeltuie in landbou, 'n vlug na hoër koste-effektiewiteit
Jammer, B	Beskou volhoubaarheid deur 'n finansiële lens
Jammer, B	Die moderne plaasbestuurder
Jammer, B	Die moderne plaasbestuurder
Maré, F	Red meat prices in perspective
Maré, F	Red meat prices in perspective
Maré, F	Economics of profitable production
Maré, F	Red meat prices in perspective
Maré, F	Economic sustainable beef production
Maré, F	The current economic climate and the impact on the red meat industry

1. *Matthews, N presented on the value of spatially differentiated irrigation based on dynamic changes in soil water matric and osmotic potential.*



Name of Academic	Title of presentation
Maré, F	Red meat prices in perspective
Maré, F	Economic sustainable beef production
Maré, F	The beauty of our product
Maré, F	When you are alone
Maré, F	Who you are vs what you are
Maré, F	Popular articles – 36 articles for the year in <i>Veeplaas</i> and <i>Stockfarm</i>
Maré, F	Agricultural TV markets – Weekly Ag markets for <i>Plaas TV</i> (52 for the year)
Jordaan, J	Identifying a niche market for local, hand-made, and socially responsible wool products in South Africa
Henning, JIF	Functional development strategies to promote youth engagement in agricultural activities
Von Maltitz, L	Skills and competencies of agricultural extension professionals in South Africa: implications for higher education curricula
Von Maltitz, L	Strengthening skills and competencies of agricultural extension services in South Africa: implications for higher education curricula

Name of Academic	Title of presentation
Von Maltitz, L	Strengthening agricultural extension training in the MSU Alliance for African Partnership (AAP) consortium partners in Africa. Presenter of South African research results
Von Maltitz, L	Strengthening agricultural extension training in the MSU Alliance for African Partnership (AAP) consortium partners in Africa. Presenter and author of Agribusiness Training Module
Von Maltitz, L	Skills and competencies of agricultural extension professionals in South Africa: implications for higher education curricula
Von Maltitz, L	Curricula development to address critical skills for 2030 extensionists for nutrition security
Monteiro, M	The moving average crossover strategy as an alternative hedging strategy for the South African maize market
Monteiro, M	Maak mieliebesproeiingsprodusente vandag meer geld as vroeër jare? 'n vergelyking van appels met appels in reële terme
Monteiro, M	Agricultural derivatives market in South Africa (SAFEX), online guest lecture at the Nelson Mandela Metropolitan University
Matthews, N	Value of spatial differentiated irrigation informed by dynamic changes in matric and osmotic potential of soil water
Grové, B	Farm-level hydro-economic analysis of alternative water tariff charges using a hybrid solution method
Grové, B	DECAL: Economic management of conjunctive use of irrigation water and shallow groundwater
Lombard, WA	Identifying a niche market for local, hand-made, and socially responsible wool products in South Africa
Coka, Z	Adjudication remarks
Coka, Z	Free State Agriculture: Young farmer of the year judge
Coka, Z	(SISC2023: Mission Adaptation! Managing the risk and building resilience 11th SISC Annual conference)
Mbai, S Moses, EN Bahta, YT	(Standard Bank Biomass Fair 2023. Theme: Igniting the growth of the biomass sector in Namibia, Gross Barmen Resort, Okahandja, Namibia
Muhame, C Ncube, A Bahta, YT	Climate change and futures in Africa, conference series towards local solutions to early warning and disaster risk reduction in SADC and beyond

Zoology and Entomology (Bloemfontein and Qwaqwa)

Basson, L	Ectosymbiotic fish peritrichs (Ciliophora: Peritrichia) and their suctorian (Ciliophora: Suctoria) predators.
Basson, L Netherlands, E	Frogging and educational night event 'Paddanag in Bloem'
Basson, L (co)	<i>Polycycla</i> (Poljansky, 1951) mobilines from South African holothurian hosts
Basson, L (co)	Contributions to the genus <i>Leiotrocha</i> Fabre-Domergue, 1888

Name of Academic	Title of presentation
Butler, H	An indication of mineral requirements in an Anthropocene landscape
Butler, H	Geofagie: sout van die aarde of apteek van die natuur
Butler, H Netherlands, E	Educational talk about snake safety
Butler, H (co)	Sampling murid community structure and composition in the central South African grasslands: removal versus non-removal trapping
Butler, H (co)	The contribution of inselbergs to the composition and structure of herpetile communities in an arid grassland landscape
Codron, D (co)	Home invaders: the effects of inter- and intraspecific competition on the population dynamics of cockroaches
Codron, D (co)	Unique carnivores and herbivorous sheep: how patterns of individual niche variation differ across trophic groups

Genetics

Ehlers, K Wessels, L	Forensic Science education vs industry
Dube, N	Phytochemistry, plant growth and insect performance in various infestations of <i>Pareuchaetes insulata</i> (Lepidoptera: Arctiinae) on invasive alien shrub <i>Chromolaena odorata</i> (Asteraceae) in South Africa
Dube, N	Larval performance of a specialist herbivore <i>Pareuchaetes insulata</i> (Lepidoptera: Erebidae: Arctiinae) on an invasive alien shrub <i>Chromolaena odorata</i> from four locations in South Africa
Dube, N	Impact of the gall-inducing fly <i>Polymorphomyia basilica</i> snow (Diptera: Tephritidae) on the growth and reproduction of <i>Chromolaena odorata</i> (L.) RM King and H Rob (Asteraceae) in the laboratory
Dube, N (co)	Potential impacts of the emerging invader <i>Cylindropuntia pallida</i> (Rose) on the arthropods and nematodes in South Africa
Dube, N (co)	Preliminary studies on population structure and ecological impacts of <i>Cylindropuntia pallida</i> (Cactaceae) in South Africa
Dube, N (co)	The biological control agents <i>Carvalhotingis visenda</i> (drake and hambleton) (Hemiptera: Tingidae) and <i>Hedwigiella jureceki</i> (obenberger) (Coleoptera: Buprestidae), as vectors of the adventive pathogen <i>Cercospora unguis-cati</i> sp. (Mycosphaerellaceae) in South Africa
Fourie, D (co)	An investigation on edge effect and ground-living arthropod predators in a walnut agroecosystem in the Free State province
Haddad, C	Striking gold: progress and future prospects following two decades of taxonomic research on Afrotropical dark sac spiders (Araneae: Trachelidae)
Haddad, C (co)	Collembola diversity in agroecosystems in South Africa
Haddad, C (co)	An introduction to male-male agonistic behaviours in sympatric species of <i>Heliophanus</i> jumping spiders
Heyns, L	Curriculum 2.0: because 1.0 was so last century
Jansen van Rensburg, C	Nematofauna from the Kalkfontein Dam Nature Reserve in the Free State province
Le Roux, A	The fast and the furriest: cognition in a small-brained carnivore



1. Butler and Netherlands delivered an educational talk about snake safety.
2. Dube, N (co) presented on preliminary studies on population structure and ecological impacts of Cactaceae in South Africa.

Name of Academic	Title of presentation
Le Roux, A	One Health and zoonoses in a changing South Africa
Le Roux, A	We built it and they came, <i>Quest</i> magazine
Le Roux, A	Research gap opens door to zoonotic illnesses (commentary in the <i>Pretoria News</i> , <i>Cape Times</i> , and <i>The Mercury</i>)
Wessels, L Ehlers, K Motlolo, T Brink, S	Investigating the feasibility of molecular techniques in augmenting insect based postmortem intervam estimation
Media	
Molefe-Nyembe, N	Haemoparasite infections and relationship with adaptive immune responses in Afromontane lizards of the Eastern Free State province, South Africa
Motolo, T	The effect of aldicarb on various fly species in a carrion ecosystem
Netherlands, E	Under the dragon's veil: investigating the diversity of blood parasites in the flat dragon lizard (<i>Smaug depressus</i>) from the Soutpansberg mountain range
Netherlands, E (co)	Frogs and their blood parasites: A biodiversity survey of the Soutpansberg mountain range
Netherlands, E (co)	Revisiting the diversity and phylogenetic relationships of trypanosomes (<i>Trypanosoma</i>) infecting pelomedusid (Pelomedusidae) freshwater turtles in Southern Africa
Netherlands, E (co)	Molecular and morphological characterisation of four species of fish parasitic <i>Trypanosoma Gruby</i> , 1843 from the South Coast of South Africa

Name of Academic	Title of presentation
Grobler, P	A phylogeographic assessment of the greater kudu (<i>Tragelaphus strepsiceros</i>) across South Africa
Grobler, P	Jy en genetika en die wêreld om jou
Grobler, P Reilly, B	Can biodiversity persist under current conservation regimes in South Africa?
Grobler, P Reilly, B	The genetic status of fragmented gemsbok populations in the Northern Cape province, South Africa
Public lectures	
Ramoejane, M	Barcoding of rodent populations (Muridae) from the Golden Gate Highlands National Park and the University of the Free State Qwaqwa Campus
Swart, VS (co)	Afrotropical Athericidae (water snipe flies): revision of the South African 'Atherix' complex
Swart, VS (co)	Two new species of the wormlion genus <i>Vermilynx</i> Stuckenberg (Diptera: Vermileonidae), from the Northern and Western Cape provinces, South Africa
Taylor, PJ	Mountains across climate gradients as Pleistocene species-pumps in Southern African bats
Taylor, PJ	Small mammals as sentinels of past and future global change in African mountains. Quantifying the effects of climate change and anthropogenic disturbance on bat communities in a montane grassland ecosystem
Taylor, PJ	Arid-mesic siblings: vicariance in four Southern African bat lineages exemplifies a common biogeographical pattern
Taylor, PJ (co)	What makes bats buzz on apple farms? Acoustic analysis of insectivorous bats foraging in agricultural areas of central South Africa
Taylor, PJ (co)	Acoustic activity of bats in deciduous fruit farms of the Eastern Free State province, South Africa
Taylor, PJ (co)	Quantifying the effects of climate change and anthropogenic disturbance on bat communities in an Afromontane grassland ecosystem
Taylor, PJ (co)	Taxonomy, diversification, and evolutionary history of the African laminated toothed rats (Rodentia, Otomyini)
Taylor, PJ (co)	Expensive tissue hypothesis (ETH) and counter-gradient variation in cricetid and murid rodents at high elevation
Taylor, PJ (co)	High altitudes, hidden treasures: unveiling the impact of elevation on diversity and species composition in Witsieshoek's small mammals and bats, Drakensberg
Taylor, PJ (co)	Monitoring bat populations in savanna biome: a case study in Kruger National Park
Van As, LL	To like or dislike the alien and invasive common carp as parasite 'taxi'
Van As, LL (co)	First integrated taxonomy study for characterisation of gill copepod <i>Ergasilus mirabilis</i> . Oldewage and Van As, 1987 (Ergasilidae: Cyclopoida)
Van As, M	Molecular characterisation and morphological description of two new species of <i>Hepatozoon</i> Miller, 1908 (Apicomplexa: Adeleorina: Hepatozoidae) infecting leukocytes of African leopards <i>Panthera pardus pardus</i> (L.)
Van Dalen, E (co)	The influence of cattle age on hard tick (Ixodidae) infestations
Van Dalen, E	Ecological competition and acaricide resistance of two <i>Rhipicephalus</i> (<i>Boophilus</i>) species collected on commercial farms in South Africa



1.



2.

1. Taylor, PJ delivered a presentation on mountains across climate gradients as Pleistocene species-pumps in Southern African bats.
2. Ramoejane, M gave a public lecture on rodent population barcoding at the Golden Gate Highlands National Park and the UFS Qwaqwa Campus.

Name of Academic	Title of presentation
Van Dalen, E (co)	Detection of the brown ear tick, <i>Rhipicephalus appendiculatus</i> , in the Free State province
Voua Otomo, P (co)	Comprehensive monitoring of surface water in the Qwaqwa area (South Africa) – combining chemical and biological analyses
Voua Otomo, P (co)	A quest for novel fungal species with the ability to bioremediate polyethylene in the Eastern Free State, South Africa: an eco-friendly solution to eliminate plastic pollution
Voua Otomo, P (co)	Assessment of imidacloprid removal in an aqueous solution by mycofiltration, through a fixed-bed column biosorption approach
Voua Otomo, P (co)	Performance of a laboratory-scale fixed bed mycofilter in the removal of a food colouring agent from an aqueous solution
Voua Otomo, P (co)	The state of aquatic pollution in Qwaqwa region: application of microbiotests for toxicity evaluation of river waters

Plant Sciences

Van Aardt, AC	Karroid islands in a sea of gasses, Free State province, South Africa
Van Biljon, A	Nutritional improvement through biofortification
Van Biljon, A	Wheat quality through the eyes of a breeder
Van Biljon, A	Wheat quality through the eyes of a breeder
Maré, A	Wheat disease resistance breeding

1. Steenhuisen, S-L delivered a presentation on when roses go rogue: expanding ranges of invasive Rosaceae in South Africa.
2. Rothmann, L presented a public lecture on seedborne fungal pathogens in soybean.



Name of Academic	Title of presentation
Canavan, K (Plant Sciences affiliate and collaborator with Prof Steenhuisen)	Invasive alien plants in South Africa's mountains
Mohase, L	UKIR Future Leaders Fellowship Round 7: panel interview meeting
Rothmann, L	Tactics to disrupt: Sclerotinia
Rothmann, L	Facilitating a collaborative approach between academia, government, and industry to manage diseases caused by <i>Sclerotinia sclerotiorum</i> on oil- and protein seed crops
Rothmann, L	<i>Sclerotinia sclerotiorum</i> information session and training
Rothmann, L	Climate change and agriculture panellist: plant pathologist opinion
Rothmann, L	Introductory plant pathology and plant disease management
Rothmann, L	Identification and prevalence of seedborne fungal pathogens associated with soybean
Rothmann, L	Science in service to society: a reflection from plant pathology
Rothmann, L	History and vision for the African Division of the American Phytopathology Society
Rothmann, L	Sclerotinia diseases of soybean and sunflower: understanding the undercovering disease management

Name of Academic	Title of presentation
Rothmann, L	Sclerotinia diseases of soybean and sunflower: understanding the undercovering disease management
Rothmann, L	Sclerotinia diseases of soybean and sunflower: understanding the undercovering disease management
Rothmann, L	Sorghum production and plant diseases
Rothmann, L	Sorghum pathology and extension at the University of the Free State
Rothmann, L	Sorghum production and plant diseases
Rothmann, L	Sclerotinia diseases: biological and chemical control
Rothmann, L	Sclerotinia diseases: cultural control
Rothmann, L	Taxonomy and life cycles matter to manage diseases of Sclerotinia sclerotiorum
Rothmann, L	'Art of war': through the lens of plant disease surveillance
Rothmann, L	<i>Student oral presentation</i> A quantitative and qualitative analysis of rhizosphere microbial populations of maize and soybean as influenced by soil and plant genotype
Rothmann, L	<i>Student poster</i> The viability of Sclerotinia sclerotiorum sclerotia exposed to dry heat temperatures and the rumen of cattle
Rothmann, L	<i>Student poster</i> Exploring soybean and sunflower microbiomes for beneficial bacterial microorganisms
Rothmann, L	<i>Student poster</i> Resistance to fusarium head blight in wheat: influence of the fungal mycotoxin profile
Rothmann, L	<i>Student poster</i> Identifying sorghum grain fungal colonisers, quantification of mycotoxins and development of weather-based predictive models for <i>Fusarium graminearum</i>
Joubert, L	Ek wil weet – Plantkunde – two radio shows for 2023
Joubert, L Jackson, M	<i>Student presentation</i> Systematics and morphometrics in <i>Nemesia</i> (Scrophulariaceae)
Joubert, L Jackson, M	<i>Student presentation</i> Morphometric analysis in <i>Nemesia</i> (Scrophulariaceae)
Moloi, MJ	Fish protein hydrolysates and kelp concoction: a green solution for drought-stress protection in spinach (<i>Spinacia oleracea</i> L.)
Moloi, MJ	Drought defence in edamame: dibutyl dithiophosphate insights
Moloi, MJ	Drought-stress protection in edamame soybean under different selenium application methods

Name of Academic	Title of presentation
Moloi, MJ	Drought-stressed or drought-adapted? Looking through the physiological lens
Moloi, MJ	A natural bio-stimulant consisting of a mixture of fish protein hydrolysates and kelp extract enhances the physiological, biochemical and growth responses of spinach under different water levels
Moloi, MJ	Physiological, morphological, and biochemical traits of dibutyl dithiophosphate treated drought-stressed edamame
Moloi, MJ	Influence of different selenium application methods on physiology and biochemistry of drought stressed edamame
Moloi, MJ	A natural bio-stimulant consisting of a mixture of fish protein hydrolysates and kelp extract enhances the physiological, biochemical and growth responses of spinach under different water levels
Moloi, MJ	Physiological, morphological, and biochemical traits of dibutyl dithiophosphate treated drought-stressed edamame
Moloi, MJ	Influence of different selenium application methods on physiology and biochemistry of drought-stressed edamame
Mafa, M	HRP pretreatment modifies structural and chemical properties of rooibos biomass, improving its saccharification by enzyme cocktails
Mafa, M	Delegate at the National Grain Research Programme (invited)
Mafa, MS Mohase, L	Characterisation of the cell wall reinforcing peroxidase and β -1,3-glucanase induced upon wheat infestation by <i>Diuraphis noxia</i>
Mafa, MS Mohase, L	Consolidating the cell wall modification roles of peroxidase and β -1,3-glucanase during <i>Diuraphis noxia</i> -wheat interaction
Mafa, MS Mohase, L	Effect of drought and Russian wheat aphid infestation on wheat yield and quality traits
Mafa, MS Mohase, L	Navorsingsgroep soek oplossing teen hoogs virulente Russiese koringluis
Mafa, MS Mohase, L	Imminent danger of RWASA biotype-5 to wheat production in South Africa and neighbouring countries
Mafa, MS Mohase, L	Interview on imminent danger of RWASA biotype-5 to wheat production in South Africa and neighbouring countries
Ngara, R	Comparative morpho-physiological and molecular studies of sorghum under stress
De Jager, L (current PhD student of Dr Andri van Aardt)	Ken jou grasse/Know your grasses
De Jager, L (current PhD student of Dr Andri van Aardt)	Indringerplante in the Bloemfontein-omgewing
Muller, M (current PhD student of Dr Andri van Aardt)	Indringerplante in die Bloemfontein-omgewing



1. Herselman, L delivered a presentation on how to prune a tree.
3. Mafa, M presented a lecture on how HRP pretreatment enhances rooibos biomass for improved saccharification.

Name of Academic	Title of presentation
Minnaar-Ontong, A	Food for Mzansi: agriculture awareness for schools – Agricareers
Herselman, L	How to prune a tree
Van der Merwe, R	Ek wil weet – Plantkunde – two radio shows for 2023
Van der Merwe, R	Growing and breeding of crops with climate change
Van der Merwe, R	Breeding for pod-shattering resistance in vegetable-type soybean
Steenhuisen, S-L	Expanding ranges of invasive Rosaceae
Steenhuisen, S-L	When roses go rogue: expanding ranges of invasive Rosaceae in South Africa
Steenhuisen, S-L	<i>Geography Postdoc presentation</i> Exploring mechanisms underlying the success of range-expanding plants in Maloti-Drakensberg mountains, South Africa
Steenhuisen, S-L	<i>Geography Postdoc presentation</i> Exploring mechanisms underlying the success of range-expanding plants in Maloti-Drakensberg mountains
Steenhuisen, S-L	<i>Postdoc presentation</i> Camera surveillance monitors invertebrate abundance, plant phenology and weather events within a montane climate change experiment

Name of Academic	Title of presentation
Steenhuisen, S-L	<i>Student poster presentation</i> Seed dispersal and germination of <i>Cotoneaster pannosus</i> on Afromontane grasslands of Eastern Free State, South Africa
Steenhuisen, S-L	<i>Student poster presentation</i> Impact and management of range-expanding Rosaceae species along elevational gradients in the Maloti-Drakensberg
Steenhuisen, S-L	<i>Student poster presentation</i> The role of mammals in seed dispersal of fleshy-fruited invasive alien plants in the Grassland Biome of South Africa
Steenhuisen, S-L	<i>Student poster presentation</i> The invasive status of <i>Cortaderia</i> species in South Africa
Steenhuisen, S-L	<i>Student poster presentation</i> The invasive status of <i>Cortaderia</i> species in South Africa
Steenhuisen, S-L	<i>Student presentation</i> Impact of the invasive alien plant species clearing programme on socio-economic benefits and plant biodiversity along the northern Drakensberg, Mpumalanga province, South Africa
Steenhuisen, S-L	<i>Student presentation</i> Seed biology and spread of the alien invasive <i>Cotoneaster pannosus</i> in Afromontane grasslands of Eastern Free State
Steenhuisen, S-L	<i>Student presentation</i> Is the thorny invasive <i>Rosa rubiginosa</i> facilitating the recruitment of native and exotic woody species in the mountain grasslands of the Eastern Free State?
Steenhuisen, S-L	<i>Student presentation</i> Current status and population demographics of the <i>Salix</i> species in the grassland biome of South Africa
Steenhuisen, S-L	<i>Student presentation</i> The role of mammals in seed dispersal of fleshy-fruited invasive alien plants in the Grassland Biome of South Africa
Steenhuisen, S-L	<i>Student presentation</i> The role of mammals in the seed dispersal of the invasive plant species, <i>Rosa rubiginosa</i> , in the Free State rangelands
Steenhuisen, S-L	<i>Student presentation</i> Seed germination of naturalised and horticultural traded <i>Cortaderia</i> species in South Africa
Steenhuisen, S-L	<i>Student presentation</i> Seed dispersal and germination of <i>Cotoneaster pannosus</i> in Afromontane grasslands of Eastern Free State, South Africa
Steenhuisen, S-L	<i>Student presentation</i> Impact and management of range-expanding Rosaceae species along elevational gradients in the Maloti-Drakensberg



1. Steenhuisen, S-L led a student poster presentation on *Cotoneaster pannosus* seed dispersal and germination in Eastern Free State's Afromontane grasslands.

Name of Academic	Title of presentation
Steenhuisen, S-L	<i>Student presentation</i> Impact and management of range-expanding Rosaceae species along elevational gradients in the Maloti-Drakensberg
Steenhuisen, S-L	<i>Student presentation</i> Community perceptions on an invasive alien plant <i>Pyracantha angustifolia</i> in South African grasslands
Steenhuisen, S-L	<i>Student presentation</i> The role of mammals in seed dispersal of fleshy-fruited invasive alien plants in the Grassland Biome of South Africa
Steenhuisen, S-L	<i>Student presentation</i> Invasion patterns and impacts of the grass <i>Nassella tenuissima</i> in the Eastern Cape Drakensberg, South Africa
Steenhuisen, S-L	<i>Postdoc – Flash talk and poster presentation</i> Review of the invasive, yet economically beneficial, <i>Rosa rubiginosa</i> L. (Rosaceae) within Southern Africa
Boshoff, W	Stem rust in wheat – the Southern African perspective
Boshoff, W	The control of Fusarium head blight under irrigation
Boshoff, W	The control of rust diseases following outbreaks in the warmer irrigation areas
Boshoff, W	Stripe rust on wheat – new race detected. Lead article
Boshoff, W Rothmann, L Visser, B	Fungicide sensitivity among isolates of the stem rust fungus on small grains (in Afrikaans)

1. Aurret, H serves is registered as a Professional Architect with SACAP.
2. Herselman, L is a member of the tree pruning advisory board.



The academics in the Faculty of Natural and Agricultural Sciences who served on international platforms in 2023 are outlined in Table 15.

Table 15: NAS – Academics serving on international professional platforms

Name of academic	Platform
Aurret, H	Registered as a Professional Architect with SACAP
Aurret, H	Chairperson of the Permit Committee of the Free State Provincial Heritage Resources Authority
Azov, V	Preparation UFS open day 2023, which also included the Department of Chemistry
Azov, V	Participation in the evaluation activity of NRF (Thuthuka NRF panel, rating applications)
Azov, V	Conference participation (SACI, CATSA, organisation of the UFS Organic Chemistry Symposium)
Belle, JA	Disaster Management Institute of Southern Africa
Bahta, Yonas, B	Member of editorial board and panel <i>Frontiers in Environmental Economics</i> (review editor) https://www.frontiersin.org/journals/environmental-economics#editorial-board
Bahta, Yonas, B	Panel member of NRF rating and project fund
Bahta, Yonas, B	Panel member in evaluating the replacement of the South African research chairs initiative (SARChI)
Bahta, Yonas, B	<i>International Journal of Food and Agricultural Economics</i> – member of editorial board

Name of academic	Platform
Boshoff, W	Department of Plant Protection Biology. Swedish University of Agricultural Sciences
Boshoff, W	Omnia information day
Boshoff, W	AECI plant health training
Boshoff, W	Industry magazine
Boshoff, W Rothmann, L Visser, B	Industry magazine
Brink, A	Invited member of the International Union of Crystallography (IUCr) Committee on Data (CommDat; https://www.iucr.org/resources/data/comm-dat)
Brink, A	Member of the South African National Committee of the IUCr (International Union of Crystallography)
Brink, A	Fellow of the DHET: Future Professor Programme (Phase 01), https://futureprofessorsprogramme.co.za/
Brink, A	Serve on editorial board of Taylor & Francis group for the journal <i>Crystallography Reviews</i>
Codron, D	Zoological Society of SA and UCT Isotope workshop
Du Preez, K	South African Council for the Architectural Profession (SACAP)
De Jager, L	Botanical Society of South Africa – Free State branch
De Jager, L	Bainsvlei Tuinbouklub
Erasmus, LJB	Vice-chairperson of Friends of Franklin NPO
Erasmus, S	Chair – Free State Branch of the South African Institution of Agricultural Engineers
Erasmus, S	Member of the South African Institution of Agricultural Engineers National Council
Harris, RA	Centre Européen de Calcul Atomique et Moléculaire (CECAM)
Harris, RA	South African Conference on Photonic Materials (SACPM)
Harris, RA	South African Quantum Technology Initiative Workshop
Harris, RA	South African Nanotoxicology Consortium and Society for Risk Analysis
Herselman, L	Tree pruning advisory board
Hugo, C	Secretary of the International Committee on Systematics of Prokaryotes (ICSP) Subcommittee for Aerobic Bacteroidota
Hugo, C	Associate editor for <i>International Journal of Systematic and Evolutionary Microbiology</i>
Jackson, M	UKIR Future Leadership Fellowship Round 7 – panel interview meeting

Name of academic	Platform
Jackson, M	SAAB member
Kunguma, O	Disaster Management Institute of Southern Africa
Le Roux, A	SAGE scientific advisory on the environmental and heritage implications of South Africa's Makhado-Musina Special Economic Zone
Maré, F	Board member of International Farm Management Association
Mafa, M	Russian Wheat Aphid (RWA) Group: conceptualised and cofounded the group
Mafa, M Mohase, L	Annual RWA Group meeting: hosted the first RWA Group
Mafa, M Mohase, L	Interviews with <i>Landbou.com</i> magazine
Minnaar-Ontong, A	National Grain Research platform – board member
Minnaar-Ontong, A	Crop Research platform at the UFS – Coordinator
Moloi, MJ	The 10th International Plant Protection Symposium
Moloi, MJ	Erasmus + Teaching Mobility programme (University of Debrecen)
Moloi, MJ	SAAB member
Mofokeng, JP	Reviewer of the following journals: <i>Journal of Polymer Science</i> 2020, <i>Materials Sciences and Applications</i> (MSA) journal 2022, <i>Journal of Agricultural Chemistry and Environment</i> (JACEN) in 2023).
Mofokeng, JP	Dr Mofokeng was part of the organising team for the Indigenous Knowledge Systems (IKS) seminar – which was a resounding success – organised by the UFS Qwaqwa Campus Research Office in partnership with the Office for International Affairs, under the theme 'Navigating decoloniality and indigenous knowledge for sustainable development in Africa'. Prof Josephine Ahikire from Makerere University in Uganda and Dr Lwazi Lushaba from the University of Cape Town delivered their keynote address at the Protea Hotel, Clarens, 26 October 2023.
Mohase, L	Plaas TV/Farm TV
Mosidi, O	Member of the South African Institution of Agricultural Engineers National Council
Motlounge, SJ	Reviewer: <i>MRS Advances</i> – Growth time and its associated physico-chemical properties of electrodeposited CdS:Mg thin film
Motlounge, SJ	Reviewer: Unisa PhD thesis – Surface functionalisation of graphene oxide for application in organic solar cells
Mngomezulu, M	Peer reviewer for <i>Carbohydrate Polymers</i> , accredited international journal in 2023
Muller, M	Kiepersol Tuinbouklub
Netherlands, E	Zoological Society of SA
Ngara, R	Review editor, <i>Frontiers in Plant Sciences</i>



1. Le Roux, A presented on SAGE's advisory regarding the environmental and heritage implications of South Africa's Makhado-Musina Special Economic Zone.
2. Ogundeji, A is a member of the Disaster Management Institute of Southern Africa.

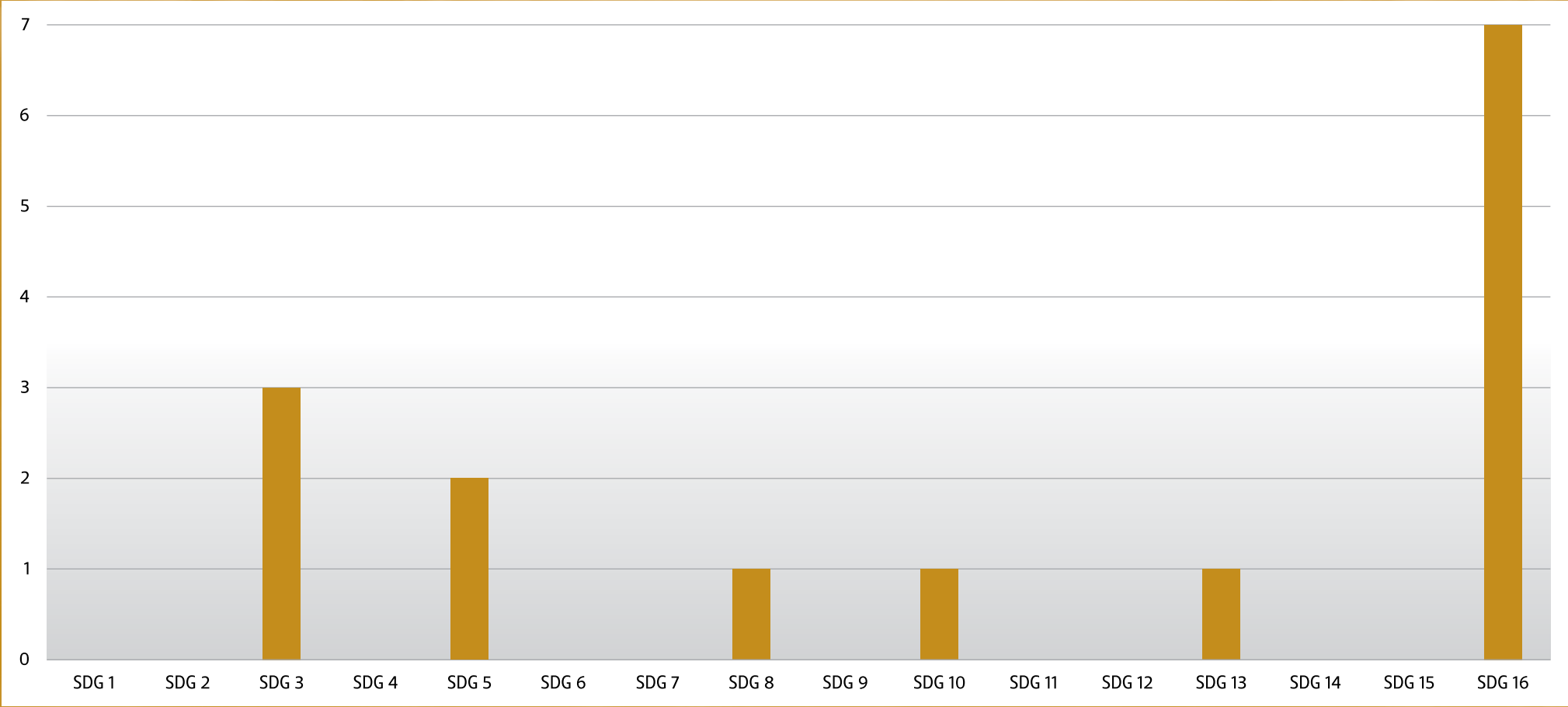
Name of academic	Platform
Noble, J	South African Council for the Architectural Profession (SACAP)
Noble, J	South African Institute of Architects, Free State (SAIA)
Ogundeji, A	Disaster Management Institute of Southern Africa
Ogundeji, A	Agricultural Economics Association of South Africa
Rothmann, L	Southern African Society for Plant Pathology: Conference Organising Committee
Rothmann, L	American Phytopathology Society: African division (President)
Rothmann, L	South African Sclerotinia Research Network (Chairperson)
Rothmann, L	Sorghum Research Evaluation committee
Stander, M	Southern African Association of Geomorphologists Council
Stander, M	International Association for Impact Assessment, member
Steenhuisen, S-L	Free State Wetland Forum
Van Zyl, WF	South African Society for Microbiology Council for 2023-2025

Name of academic	Platform
van Dijk, AA	Hosted scientists from Germany and Mozambique during AfRota meeting
Van Jaarsveldt, DP	Antique Telescope Society
Van Jaarsveldt, DP	History of Astronomy Discussion Group
Tshabalala, KG	Co-editor <i>Frontiers in Electronic Materials</i> ; external assessor Unisa/Unizulu/TUT
Van Biljon, A	Department of Plant Protection Biology. Swedish University of Agricultural Sciences
Van Biljon, A	UPL Winter Wheat workshop
Van der Merwe, R	South African Association of Botanists Council
Van der Merwe, R	Mountain Invasion Research Network (Miren) Steering Committee
Van der Merwe, R	<i>American Journal of Botany</i> Associate Editors Board
Van der Merwe, R	<i>South African Journal of Botany</i> Associate Editors Board
Van der Merwe, R	NRF Thuthuka Project evaluation panel
Van der Walt, A	International Journal of Biometeorology
Van der Walt, A	Society of South African Geographers
Van der Walt, A	Associate editor mentee of the <i>South African Journal of Science</i>
Van der Walt, A	African Research Council's Development Programme
Van Soelen, B	South African IAU National Committee for Astronomy: until end of September 2023
Van Soelen, B	Chair of SANCA
Van Soelen, B	SALT External Review Panel
Van Soelen, B	SALT Steering Committee
Visser, HG	Referee for <i>Inorganic Chemistry</i> , <i>Journal of Molecular Chemistry</i>
Voua Otomo, P	US – (postdocs)
Voua Otomo, P Le Roux, A	Strategic advisory on wastewater management in South Africa
Wilhelm, A	Zebrafish Husbandry Association (ZHA)
Wilhelm, A	Registered at South African Veterinary Council (SAVC) to handle and store controlled substances (not international, but noteworthy regarding the zebrafish bioassay)

Faculty of Theology and Religion

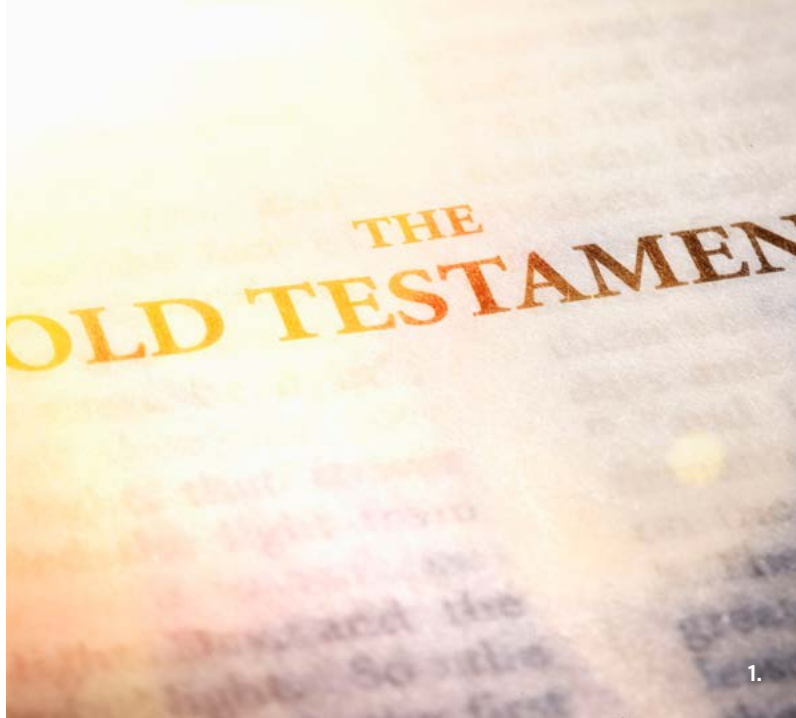
Faculty of Theology and Religion

Graph 7 portrays citations for academics from the Faculty of Theology and Religion in alignment with the 16 SDGs.



Graph 7 Faculty of Theology and Religion - Citations in alignment with SDGs

The SDG with the most aligned citations is SDG 16 (peace, justice, and strong institutions), followed in downward progression by SDG 3 (good health and well-being), SDG 8 (decent work and economic growth, SDG 10 (reduced inequalities), and SDG 13 (climate action). It thus appears that multi- and transdisciplinary work has been done in contribution to social, economic, and environmental impact. The detailed citations are outlined in Table 16.



1. Ausloos, H submitted a paper on justice in the Old Testament and the idea of retribution.
2. Baloyi and Pali presented an article on digital churches post-COVID-19.

Table 16: Theology and Religion – Citations in alignment with Sustainable Development Goals

Author	Title	DOI	SDGs
Ausloos, H	It's a matter of justice! The Old Testament and the idea of retribution	10.17159/2312-3621/2023/V36N1A9	16
Baloyi, E	The office of deacon in the Reformed Church in Zimbabwe: a historical perspective	10.46222/pharosjot.104.314	16
Baloyi, E Pali, JK	Being a digital church in the transition to post-COVID-19 pandemic era	10.46222/pharosjot.104.514	3 16
Chireshe, E	The liberation of women and girls as the liberation of Mother Earth: a theological discourse	10.4102/hts.v79i3.8300	5 8 10 13 16
Chireshe, E	The Chihera mystique in selected writings by African women theologians	10.1007/978-3-031-12466-2_16	5 16
Chireshe, E Macheke, MT	Religion and COVID-19 vaccination in Zimbabwe: vaccination uptake and power dynamics: insights from African initiated churches and traditional healers in Masvingo province, Zimbabwe	10.4324/9781003388630-12	3 16
Cloete, NM	Retrieving a Christian ecological spirituality in response to our contemporary ecological crisis	10.46222/pharosjot.104.423	3 16

The dissemination of research and scholarship through platforms such as webinars, public lectures, media, and policy briefs in the Faculty of Theology and Religion is outlined in Table 17.

Table 17: Theology and Religion – Dissemination of research and scholarship through platforms such as webinars, public lectures, media, policy briefs (per department)

Name of Academic	Platform
Andrew, D	Participant in Civil Society Engagement
Andrew, D	Presenter: Leadership Empowerment (AFMSA)
Fortein, E	Editorial board: <i>Acta Theologica</i>
Fortein, E	Editorial board: <i>UFS Theological Explorations</i>
Fortein, E	Church History Society of Southern Africa
Fortein, E	Theological Society of South Africa
Fortein, E	Samuel DeWitt Proctor Conference, USA
Fortein, E	Ministerial Task Team for Theological Training (URCSA Free State and Lesotho Synod)
Fortein, E	Curatorium (URCSA Free State and Lesotho Synod)
Fortein, E	Minister at URCSA, Noordmansville
Fortein, E	Minister at URCSA, Frayville, Fauresmith
Fortein, E	Minister at URCSA, Jacobsdal
Fortein, E	Support Ministry for Judicial Matters (URCSA Free State and Lesotho Synod)
Laubscher, M	UFS faculty representative at the Dutch Reformed Church local curatorium (Free State) and general (national) curatorium
Laubscher, M	Member of the Dutch Reformed Church Free State Worship Committee
Laubscher, M	Chair of the Worship Commission at the Dutch Reformed congregation Berg-en-Dal
Laubscher, M	Contributes frequently with a column on worship matters in <i>Vrypos</i> (electronic newsletter of Dutch Reformed Church in the Free State)
Laubscher, M	Member of Dutch Reformed congregation Berg-en-Dal Church Council.
Laubscher, M	Preach and lead worship by invitation in various congregations (on average once a month)
Laubscher, M	Peer review of articles for various accredited journals (twice a month)
Laubscher, M	<i>Acta Theologica</i> : Editor-in-Chief of <i>Acta Theologica</i>
Laubscher, M	<i>UFS Theological Explorations</i> : Editorial board member of <i>UFS Theological Explorations</i>



1.



2.

1. Fortein E support the Ministry for Judicial Matters.
2. Laubscher, M is chair of the Worship Commission at the Dutch Reformed congregation Berg-en-Dal.

Name of Academic	Platform
Laubscher, M	Organiser of the bi-weekly 'Talking Theology' (open interdisciplinary academic discussion) initiative within the Faculty of Theology and Religion
Laubscher, M	Member of the Theological Society of South Africa (TSSA)
Laubscher, M	Member of the Society for Practical Theology in South Africa (SPTSA)
Laubscher, M	Member of the Societas Homiletica
Laubscher, M	Homiletical and liturgical aids:
Laubscher, M	Preekstudie: 'Markus 16:1-8, Paassondag (Jaar B). Woord en Fees. Preekstudies en liturgiese voorstelle gebaseer op die kerkjaar'. Stellenbosch: <i>Communitas</i>
Laubscher, M	'Preekstudie: 1 Johannes 1:1-2:2, tweede Sondag van Pase (Jaar B). Woord en Fees. Preekstudies en liturgiese voorstelle gebaseer op die kerkjaar'. Stellenbosch: <i>Communitas</i>
Laubscher, M	Book reviews: Book review of P Meiring's 'In daardie tyd was daar reuse' (2022). <i>Acta Theologica</i> 43(2): 274-276
Laubscher, M	Interviews: Interview with Piet Meiring. <i>Acta Theologica</i> 43(2): 1-10
Laubscher, M	Chapters in books: 'Oor prediking, geloofsvorming en witheid in Suid-Afrika vandag'. In: Coenie Burger, Marnus Havenga, Jana van den Munckhof, & Cas Wepener (reds.), <i>Om te word wie ons is – oor geloofsvorming in en deur gemeentes</i> , 196-211. Wellington: Bybel-Media
Laubscher, M	Articles in peer-reviewed journals:

Name of Academic	Platform
Laubscher, M	'Barth on preaching toward truth'. <i>International Journal of Homiletics</i> 6(1): 52-67
Laubscher, M	'Wit issue 'n colour nie (it is a 'sermon')! After preaching, faith formation, and whiteness in contemporary South Africa'. <i>Stellenbosch Theological Journal</i> 9(2): 1-21 DOI: http://dx.doi.org/10.17570/stj.2023.v9n2.a3
Machabaphala, L	Social Impact Engagement project – Heidedal Child and Youth Care Centre
Meyer, J	Editorial board of <i>Acta Theologica</i>
Meyer, J	Editorial board of <i>Sacramentum Testamentum</i> (Psychology)
Meyer, J	Journal of Pastoral Theology
Meyer, J	Leader of worship services: DRC Fichardtkruin
Meyer, J	Member of the School Governing Body of Marthie du Plessis School for the learning disabled as regional representative of the Dutch Reformed Church 9 (Free State)
Meyer, J	Member of the Bursary Committee of the DRC Free State
Meyer, J	Annual visit to Grootvlei Correctional Services with students
Mokhoathi, J	Attended the Inter-Religious Week at the University of Pretoria organised by the Oxford (University of Pretoria) Centre for Religion, Public Life, and Security in Africa – National University of Lesotho
Mokhoathi, J	Speaker at the practice of spirituality in residences within the University of the Free State
Mokhoathi, J	Served as a guest lecturer on the subject of 'Spirituality and cultural tolerance' for an inter-professional class of students in the fields of Occupational Therapy, Physiotherapy, Dietetics, Biokinetics, and Optometry
Mokhoathi, J	Engaged research – African Christianity: intersections between religion, culture, and identity – National University of Lesotho
Mokhoathi, J	Speaker at the University of the Free State Teaching and Learning Pre-Conference
Mokhutso, J	Editorial board of <i>Pharos Journal of Theology</i>
Mokhoathi, J	Editorial board of <i>Global Journal of Cultural Studies</i>
Pali, KJ	Editorial board member of <i>Acta Theologica</i>
Pali, KJ	Editorial board member of <i>Stellenbosch Theological Journal</i>
Pali, KJ	Member of Society for Practical Theology in South Africa executive committee
Pali, KJ	Chair of commissions in the Dutch Reformed Church in Africa (DRCA) (Mission Commission, Diaconal Services Commission, DRCA Rouxville presbytery)
Pali, KJ	Leading worship services: Dutch Reformed Church in Africa
Pali, KJ	Vice-chairperson: CNFS minister fraternal



1. Mokhoathi, J was a speaker at the practice of spirituality in residences at the UFS.
2. Tolmie, F serves on editorial board of *Acta Theologica*.

Name of Academic	Platform
Pali, KJ	Representative of Employment Equity for the faculty
Pali, KJ	Chair of the FESCO
Pali, KJ	Member of the Faculty Advisory Board
Pali, KJ	Member of the Faculty of Theology and Religion academic committee
Pali, KJ	Editorial board – <i>Neotestamentica</i> ; <i>Acta Theologica</i>
Pienaar, P	Church History Society of Southern Africa
Sutton, L	Liturgist and preacher – DRC Fichardtkruin, Bloemfontein; DRC Verkeerdevlei; DRC Universitas, Bloemfontein
Sutton, L	Bible school – DRC Universitas
Sutton, L	Editorial board – <i>Acta Theologica</i> ; <i>UFS Theological Explorations</i> ; <i>Journal for Semitics</i>
Sutton, L	Series editor – <i>UFS Theological Explorations</i>
Sutton, L	Member and Secretary – Algemene Taakspan Bybelvertaling
Sutton, L	Advisory member group: Place, space, and identity in the ancient Mediterranean world, International Society of Biblical Literature (ISBL)
Sutton, L	Treasurer – Southern African Society for Near Eastern Studies (SASNES)
Tolmie, F	Serves on editorial board of <i>Acta Theologica</i>

Name of Academic	Platform
Tolmie, F	Serves on editorial board of <i>UFS Theological Explorations</i>
Tolmie, F	Serves on board of ENGO
Ullrich, C	Engaged research project: <i>Critical Phenomenology of Bodily Affect, Germany</i> (book published)
Ullrich, C	Church History Society of Southern Africa – Conference presentation: 'The crisis of love engaged research – South African women missionaries in the Diamond Fields and their views on mission work among migrant workers'
Ullrich, C	Engaged research – South African women missionaries in the Diamond Fields and their views on mission work among migrant workers
Van den Berg, J	Editorial board: <i>Acta Theologica</i>
Van den Berg, J	Editorial board: Stellenbosch Theological Journal
Van den Berg, J	Editorial board: PSTA
Van den Berg, J	Leading worship services: Dutch Reformed Church
Van den Berg, J	Public presentation: churches and other/
Van der Westhuizen, H	Founding editor: <i>Journal of Systematic Theology</i>
Van der Westhuizen, H	Editorial board: <i>In die Skriflig</i>
Van der Westhuizen, H	Editor: <i>We believe in the Holy Spirit</i>
Van der Westhuizen, H	Digital ministry for DRC Free State
Van der Westhuizen, H	Online attendance – Conference in Zürich, Switzerland on ethics and education
Van der Westhuizen, H	NRF ratings

Table 18: Theology and Religion – Academics serving on international professional platforms

Surname	International professional platform
Andrew, D	Commissioner for Faith and Order at the World Council of Churches
Andrew, D	Presenter: Active Citizenship for Stias
Pali, KJ	Reformed Church University in Zimbabwe: Public lecture on decolonisation of higher education, 2023
Pali, KJ	Lesotho Evangelical Church in Southern Africa: Church and its social responsibility, 2023
Pali, KJ	Postcolonial ministry in township congregation: Siegen, Germany, 2024

Engaged Teaching and Learning

STRETIEF



Engaged Teaching and Learning

The University of the Free State takes pride in service learning as a direct form of engaged learning and teaching.

Service-learning is an experiential learning and teaching strategy applied to the implementation of academic, curricular community engagement. Furthermore, service-learning advances the development of socially responsive citizenship, democracy, and social justice. The practice of service-learning is aimed at addressing pressing sustainable development challenges. This intent gives service learning a bigger purpose and a value-driven philosophy, with the intention of making a positive difference in society. At the UFS, we define service learning as follows:

An educational approach involving curriculum-based, credit-bearing learning experiences in which students participate in contextualised, well-structured, and organised service activities aimed at addressing identified service needs in a community, and reflect on the service experiences in order to gain a deeper understanding of the linkage between curriculum content and community dynamics, as well as achieve personal growth and a sense of social responsibility. It requires a collaborative partnership that enhances mutual, reciprocal teaching and learning among all members of the partnership (lecturers and students, members of the communities, and representatives of the service sector).

Over time, a considerable number of staff members became convinced that this could contribute to the transformation of the institution by allowing the UFS to participate more effectively in the production of knowledge for societal impact. Hence, the inclusion of compulsory service-learning modules in all academic programmes (at least one per programme) is a policy priority. This inclusion of 61 curricular service-learning modules, presented across all faculties and disciplines, is demonstrated in Table 1.

Economic and Management Sciences

Department/School	Year of study	Module name
Economics and Finance	Second	Financial Literacy
	Second	International Economics
	Third	International Economics
Business Management	Second	Entrepreneurship
	Third	Consumer Behaviour
	Third	Contemporary Digital Marketing
	Third	Small Business Management
Qwaqwa	Second	Entrepreneurship
Department of Accounting (Qwaqwa)	Second	Accounting



The entrepreneurship module aims to develop students into confident and competent business owners and/or managers.

Education

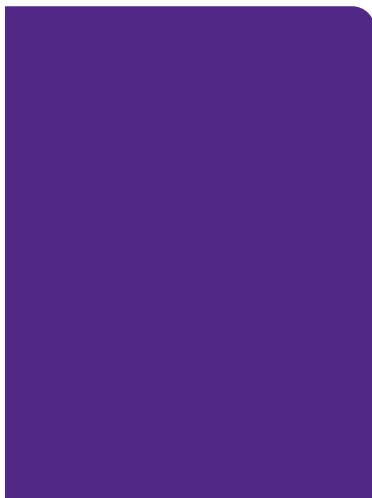
Department/School	Year of study	Module name
Department of Mathematics, Natural Sciences, and Technology Education	Second	Elementary Natural Sciences



The Sci-Ed Science Education Centre on the Bloemfontein Campus.

Health Sciences

Department/School	Year of study	Module name
School of Clinical Medicine	First	The Doctor and the Environment
	Second	Community-based Education and Interprofessional Learning for the Doctor
	Fourth	Family Medicine
	Fifth	Family Medicine and Community-based Education and Interprofessional Learning for the Doctor
Exercise and Sport Sciences	First	Motor Control and Development



In the module in Family Medicine students spend more time with their patients, who receive information on the non-medical and medical management of their diseases.

Department/School	Year of study	Module name
Nutrition and Dietetics	First	Dietetic Service Learning
	Second	Dietetic Service Learning
	Third	Dietetic Service Learning
	Fourth	Community Nutrition
Occupational Therapy	First	Community-based Education and Interprofessional Learning in Occupational Therapy
	Second	Community-based Education and Interprofessional Learning for Physiotherapy
	Third	Clinical Occupational Therapy
	Fourth	Clinical Occupational Therapy
Optometry	First	Community-based Education and Interprofessional Learning for Optometry
	Second	Community-based Education and Interprofessional Learning for Optometry
	Third	Clinical Optometry and Public Health and Compulsory Residency
	Fourth	Clinical Optometry

Department/School	Year of study	Module name
Physiotherapy	First	Community-based Education and Interprofessional Learning for Physiotherapy
	Second	Community-based Education and Interprofessional Learning for Physiotherapy
	Third	Clinical Physiotherapy
	Fourth	Clinical Physiotherapy
School of Nursing – Undergraduate	First	Practical Nursing and Community-based Education and Interprofessional Learning for Nursing
	Second	Primary Health Care Nursing
	Third	Wound Care Nursing
	Fourth	Community-based Education and Interprofessional Learning for Nursing
	Fourth	Practical Nursing Midwifery
School of Nursing – Postgraduate	Postgrad	Nursing Education Practical
	Postgrad	Health Services Management Practical
	Postgrad	Midwifery Practical

The Humanities

Department/School	Year of study	Module name
Department of Drama and Theatre Arts	Second	Drama and Performance Studies
Department of Communication Sciences	Third	Service Learning in Communication Science
Department of Linguistics and Language Practice	Third	Translation Practice
Department of Political Studies and Governance	Third	Service Learning in Political Transformation
	Third	Service Learning in Governance
Department of Psychology	Hons.	Community Psychology
Department of Social Work	Third	Clinical Community Work
Odeion School of Music	Third	Music Education and Practice

Dwepartment/School	Year of study	Module name
The Humanities Qwaqwa	Third	Community Development
	Fourth	Community Development



In the Social Work Professional Practice module students focus on applying theoretical work learned in different social work modules to practical real-life situations.

Law

Department/School	Year of study	Module name
Department of Public Law	Third	Law Clinic – Practical Legal Skills



The module Practical Legal Skills aims to familiarise students with the legal principles that apply to professional conduct, file management, and costs.

Natural and Agricultural Sciences

Department/School	Year of study	Module name
Department of Architecture	Second	Architecture Design
	Third	Architecture Design
Department of Computer Science and Informatics	Second	Computer Information Systems (Qwaqwa)
	Second	Information Technology Service Learning
Department of Physics	Third	Service Learning in Physics (elective)
Department of Sustainable Food Systems and Development	Third	Community Development and Beyond: Issues, Structures and Procedures
Department of Urban and Regional Planning	Master's	Housing
	Master's	Applied Regional Planning



Rural earth-building artists and artisans are asked to teach the art of traditional Basotho Litema wall decoration skills to second-year students.

Theology and Religion

Department/School	Year of study	Module name
Department of Practical Theology and Missional Theology	Second	Study of Missiology
	Master's	Pastoral Foundation and Practical Theory for Law Offenders and Victims of Crime
	Master's	Pastoral Foundation and Practical Theory of Caring for the Sick



The evangelism component of the module Grounding of mission and mission practice has enabled students to gain confidence while preaching the Word of God.

Conclusion

Service learning provides potentially life-changing learning experiences, which develop students holistically by engaging their heads (cognitive domain), hands (psychomotor domain), and hearts (affective domain), allowing them to develop critical awareness of society and their role in it, while at the same time appreciating the unique contributions they can make.

As an engaged learning and teaching strategy, service learning provides a point of entry for sustainable engagement by actively involving higher education staff, students, and a large variety of stakeholders in society involving, inter alia, community-based non-profit organisations, schools, and participants from local and provincial government. Stakeholders from business and industry are involved in terms of their corporate social responsibility focus.



Engaged Citizenship





Engaged Citizenship

Engaged citizenship involves modalities of supporting staff and students and expecting them to contribute by responding to pressing societal challenges. The university pursues the following categories of engaged citizenship to ensure that staff and students are offered an opportunity and support to play a role in active citizenship in our communities:

- Academically engaged citizenship refers to all the professional work, skills, time, and involvement of academics in professional, community, and other bodies, rendered for the benefit of such communities outside of standard university work.
- The student engaged citizenship category refers to all the work and involvement in community development done through professional and voluntary student organisations, residence programmes, as well as Student Affairs management programmes.

In 2023, the following programmes and activities were implemented as part of the direct Engaged Citizenship programme:

a. Promoting future-centric dialogue

The post-State of the Nation Address (SONA) dialogue was held on the UFS Qwaqwa Campus, where 88 people met to discuss the president's address on 15 February 2023. Students were very vocal about issues such as unemployment and crime.

The Makgolokweng Mokopu Festival was held on 4 March 2023; it was addressed by the chairperson of the Free State House of Traditional Leaders, who encouraged community members to combat poverty and secure food by growing vegetables at their homes. The Directorate of Community Engagement will support the training of community leaders to implement this call.

The Qwaqwa Campus social worker collected clothes and food, which were donated to a local orphanage.

On 23 March 2023, the UFS Qwaqwa Campus, Maluti TVET, GCIS, and Agape Foundation collaborated to host a Human Rights Day celebration, which was attended by 60 people.

UFS Qwaqwa Campus students and other community stakeholders visited Harrismith Correctional Services on 23 March 2023 for post-SONA dialogue. Students also offered information to inmates who were interested in furthering their studies at the UFS.

1. Communities in Qwaqwa celebrated the Mokopu Festival.
2. Dr Elias Malete from the Department of African Languages.



The Youth Day celebrations were held on 15 June 2023 in collaboration with GCIS, SANParks and Makwane Youth. Attendees received information about many funding opportunities and contacts that are available to support youth economic development. The event was attended by 150 people.

Mandela Day was celebrated in Qwaqwa on 18 July 2023 in collaboration with Student Affairs, the Agape Foundation, and Student Development and Success. Bopanang Disability Centre was visited and cleaned, and clothes and food were donated. About 53 people attended the event.

On 28 September 2023, the Qwaqwa Campus – in partnership with the Chief TK Mopeli Royal Family as well as the broader community – celebrated the life and times of Dr TK Mopeli. About 130 people attended this lecture, which was delivered by Dr Elias Malete from the UFS Department of African languages.

Women's Day was celebrated on 10 August 2023 in collaboration with the Department of Student Development and Success and the Agape Foundation, which was attended by 40 people.

On 31 August 2024, Women's Day celebrations were also held at Team Spirit Orphanage in collaboration with Spar and the Free State Department of Health, with 200 people attending.

Together with the UFS Qwaqwa Campus Gender Office, the Agape Foundation, and GCIS, a Gender-based violence dialogue session was presented, where prosecutors and lawyers participated. This event – which was held in Senekal on 23 August 2023 – was aimed at educating women about their rights.

On 2 November 2023, three local schools in Qwaqwa were awarded certificates after receiving six months of training on robotics from the UFS.



Learners from three schools in Qwaqwa received robotics training.

b. Building Self-reliance, Self-sufficiency, Self-sustainable Livelihood for Entrepreneurship Programme

In line with the Sustainable Development Goals 2030 (SDGs) (SDG1: No Poverty), the university collaborates with individuals and communities to discover and access assets within themselves and their environment for their own development and self-sustainability.

The university facilitates training on how communities can establish their own self-sustainable living and grow towards developing their own businesses. Through this programme, communities learn how they can adopt these concepts to transform their own lives towards self-sustainable development within these difficult economic times.

The programme is underpinned by asset-based community development, community-based participatory research, and sustainable livelihood approaches, while providing training, mentorship, and support for business incubation.

Programme content

The programme facilitates the following outcomes:

- Explain the concepts of *self-reliance*, *self-sufficiency*, and *self-sustainable living*.
- Describe how attendees can reorganise their lives to attain self-sustainable development within current difficult economic times.
- Train attendees on asset-based community development approach.
- Conduct asset mapping within individuals and their communities.
- Introduce examples of activities that can be undertaken to immediately implement the objectives of the programme.
- Encourage attendees to conduct their own research to discover more activities in order to achieve the objectives of the programme.
- Encourage individuals and groups to grow from survival to sufficiency, and finally to entrepreneurship.
- Present basic training on business management.
- Facilitate the establishment of mentorship and incubation programmes.
- Provide students with opportunities for engaged citizenship.
- Provide research, learning, and teaching opportunities for academics on the content of the programme.

As part of implementing the objectives of this programme, the Directorate of Community Engagement, together with academics and students, organises and presents training on the content of this programme. The following are the highlights of the programme:

- In the context of Higher Education Regional Development in Central South Africa (HERDIC-SA), the Qwaqwa Campus SRC collaborated with students from the Maluti TVET



Students learned about worm farming.

College to recruit and train members of the community on 'self-reliance'. Training included how to set up a business cooperative with poultry and food security through back-yard gardening. The trained members successfully established Makgabane-A-Dihwai Cooperative, which is now legally registered.

- In collaboration with the ward councillor of Mantsopa Local Municipality, 110 unemployed people were trained in Hobhouse on 15 and 16 February 2023.
- Working together with the Bloemfontein Campus SRC, 30 UFS students were trained in business skills on 2 and 3 October 2023.



Skills training on manufacturing took place at the UFS Rag Farm.



Participants forming business cooperatives.

- A training and matchmaking workshop was presented on 2 October 2023 in partnership with the Faculty of Theology and Religion, where 60 church-based organisations and leaders were trained.
- In collaboration with the ward councillor of the Mangaung Metro Municipality, 120 unemployed community members were trained at the UFS Rag farm on 5 and 6 October 2023.
- In Botshabelo, 115 youths and women were trained on 18 and 19 October 2023 at the Nicro Community Hall.

c. Community Engagement Indaba

The indaba is a platform where staff, students, and the broader society come together to exchange knowledge and skills on how curriculum can be responsive to societal challenges. The indaba further identifies burning issues and topics that staff can identify to contextualise the curriculum, in order to contribute to societal impact.

Opportunities are explored for researchers to work with staff in other disciplines and other universities, as well as non-academic entities, on identified topics. Partnership platforms will be established with resource organisations that may fund or partner with staff and societal formations in local research projects.

The indaba is a vehicle for introducing staff and students to direct involvement in Engaged Citizenship programmes. The university's commitment and reputation as an engaged university is enhanced through activities presented during the indaba.

The indaba is an education, training, and networking programme organised by the Directorate of Community Engagement. Staff, students, student voluntary organisations from the university, as well as outside experts present the content of the indaba.

Participants from other universities, schools, civil society organisations, business, individuals, and government departments take part in the indaba. An action learning approach is followed for skills development.

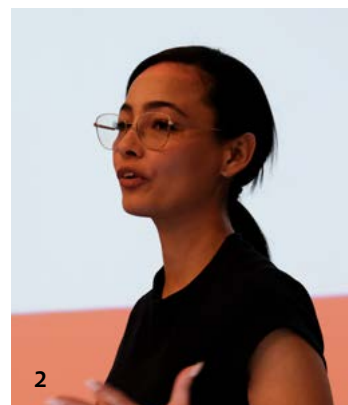
The Directorate of Community Engagement provides logistical support in bringing different stakeholders to the university for the indaba. Participants are introduced to resource institutions that provide further support, both from government and the private sector, for example SETAs, the International Labour Organisation (ILO), Social Development, etc.

Objectives of the Indaba

The indaba is guided by Vision 130 and the university's commitment to be regionally engaged, contributing to the development of the Free State, South Africa, and the African continent, and will pursue the following objectives:

- Create a platform for knowledge sharing and skills exchange on how to employ academic and intellectual skills to positively impact society.
- Build partnerships with different sectors of society.

- | | |
|--|---|
| 1. Nontombi Velelo, Lecturer and Programme Manager in Sociology. | 5. Petso Mokhatla, Lecturer in Agricultural Economics. |
| 2. Chene Ward, Lecturer in Industrial Psychology. | 6. Dr Lucia Meko, Senior Lecturer in Nutrition and Dietetics. |
| 3. Dr Grey Magaiza, Senior Lecturer in Community Development. | 7. Winnie Sereeco, Lecturer in Business Management. |
| 4. Sizwe Khoza: Project Coordinator at the National Research Foundation. | |



Target audience

The target audience is staff and students interacting with individuals, civil society organisations, staff from other universities, businesses, and schools, with a greater bias towards women and youth.

Programme content

The indaba is organised around a concept that addresses a burning issue within the immediate communities around our campuses. It explores how the concepts can be applied to address poverty, hunger, and unemployment in line with the United Nations Sustainable Development Goals.

The indaba applies asset-based community development as well as the 5R's approach (refuse, reduce, reuse, repurpose, recycle) for personal and collective development. It also presents workshops and trains attendees in practical skills that they can acquire personally and collectively to achieve the objectives of this concept.

In 2023, the indaba was held in October for a three-day period on the Bloemfontein Campus of the University of the Free State, with the theme of 'Building self-reliance, self-sufficiency, self-sustainable livelihoods for entrepreneurship'.

During the three-day education, training, and networking programme, participants had the opportunity to attend practical workshops and get their hands dirty in action learning sessions focused on food security, worm farming, and manufacturing through recycling.

The unemployment rate in South Africa reached 31,9% (16,7 million) in the third quarter of 2023, according to Statistics South Africa. The youth unemployment rate, which represents jobseekers aged between 15 and 34, stood at 4,6 million – also based on the statistics for the same period. Additionally, data from StatsSA reported an increasing trend of informal employment in South Africa, with the informal job market experiencing growth and providing support to many families.

Considering this data, as well as the need to introduce a different approach that initiates and supports individuals and communities in the development of sustainable livelihoods in order to address the challenge of poverty and unemployment, the Directorate of Community Engagement at the University of the Free State (UFS) presented its Community Engagement Indaba, with the theme 'Building Self-reliance, Self-sufficiency, Self-sustainable Livelihoods for Entrepreneurship'.

Collaboration and partnerships

The indaba provided a platform for staff (academics and support staff), students, civil society organisations, businesses, government officials, and schools, with a particular focus on women and youth. It served as a space to exchange knowledge and skills, addressing how the curriculum can be responsive to societal challenges.



Thabo Olivier from Let's Grow Food conducted a presentation at the Indaba.

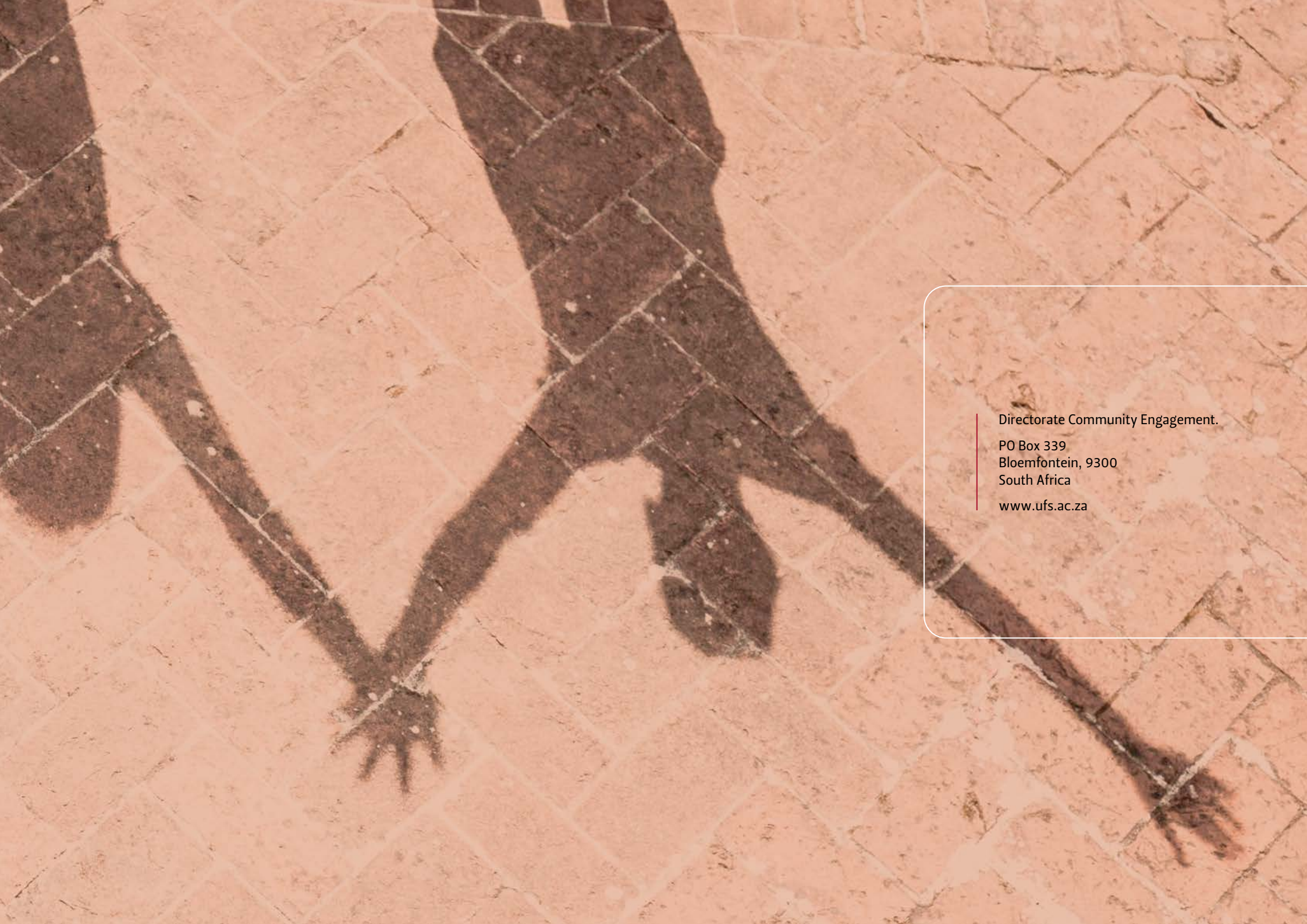
Moreover, the event played a key role in establishing a partnership platform, with resource organisations that funded and partnered with academics and societal bodies in local research projects.

Researchers collaborated with colleagues from various disciplines and other universities, as well as non-academic entities, on identified topics. They also pointed out burning issues to contextualise the curriculum for greater societal impact.

According to Bishop Billyboy Ramahlele, Director of the Directorate Community Engagement, the indaba acted as a vehicle to introduce staff and students to direct involvement in engaged citizenship programmes. He believes that the university's commitment and reputation as an engaged institution were enhanced through activities presented during the indaba.

Conclusion

As portrayed in this report, the UFS contributes to knowledge through engaged scholarship, with an intentional public purpose and mutual benefit that has a direct or indirect impact on society. Through engaged scholarship, academics demonstrate the generation, integration, application, and dissemination of knowledge, informing policy and practice at local, national, regional, and global contexts.



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