

CONFERENCES 2017 - RIMS

1. **Malimabe, M.A., Koao, L.F., Swart, H.C., von Eschwege, K.G. and Sefadi, J.S.** 2017. Characterization of Ce³⁺ doped ZnO nano-powders co-doped with Eu³⁺ in PVC polymer films, 62nd Annual Conference of the SA Institute of Physics, Stellenbosch, South Africa, 3 - 7 July 2017. **ufs-029064**
2. **Purcell, W. and Chiweshe, T.T.** 2017. Chromium isolation from different ores. European Metallurgical Conference 2017, Leipzig, Germany, 25 – 28 June 2017. . **(peer reviewed).ufs-029210**
3. **Potgieter, J.H., Potgieter, S. and Purcell, W.** 2017. Quantification of scandium in columbite-tantalite tailings and other scandium compounds. European Metallurgical Conference 2017, Leipzig, Germany, 25 – 28 June 2017. **(peer reviewed).ufs-029214**
4. **Venter, J.A. and Drost, R.M.** 2017. Forty years later – can we still learn from Tolman? Structural and reactivity studies on Rh complexes. (poster) EuCheMS International Conference on Organometallic Chemistry XXII, Amsterdam, The Netherlands, 9-13 July 2017. **ufs-029079**
5. **Belay, A.N., Venter, J.A. and Roodt, A.** 2017. Coordination Chemistry: Niobium(V) and Tantalum(V) with O,O'-bidentate ligands. The 24th congress and general assembly of the international union of crystallography (IUCr), Hyderabad, India, 21 - 28 August 2017. **ufs-029081**
6. **Purcell, W., Kumar, S., Conradie, J. and Venter, J.A.** 2017. Characterisation and oxidative addition reactions of iridium cod complexes, EuCheMS International Organometallic Conference XXII, Amsterdam, Netherlands. 9 - 13 July 2017. **ufs-029086**
7. **Conradie, J. and Landman, M.** 2017. Electrochemical Behaviour of Group 6 Fischer carbenes containing an aryl substituent, 50th Heyrovský Discussion, Molecular Electrochemistry in Organic and Organometallic Research, Castle Třešť, Czech Republic, 18 - 22 June 2017. (invited lecture). **ufs-029088**
8. **Conradie, J., Conradie, M. M. and Erasmus, E.** 2017. Influence of the electronegativity of different β -diketonato substituents on the reactivity of iron(III) β -diketonato complexes, Inorganic 2017, Arabella Hotel & Spa, Hermanus, Western Cape, South Africa, 25 – 29 June 2017. (invited keynote lecture). **ufs-029152**
9. **Conradie, J., Landman, M., Malan, F.P. and Singleton, E.** 2017. Electrochemical Behaviour of Ni(II) and Cr(III) N-heterocyclic carbenes (NHC). 50th Heyrovský Discussion, Molecular Electrochemistry in Organic and Organometallic Research, Castle Třešť, Czech Republic, 18 - 22 June 2017. **ufs-029153**
10. **Conradie, J.** 2017. REDOX behaviour of metal- β -diketonato complexes. 2017. 50th Heyrovský Discussion, Molecular Electrochemistry in Organic and Organometallic Research, Castle Třešť, Czech Republic, 18 - 22 June 2017. **ufs-029154**

11. **Landman, M., Malan, F. P., Singleton, E., van Rooyen, P. H. and Conradie, J.** 2017. CpM(NHC) (M = Cr, Ni, Ru) complexes: Synthesis, Electrochemistry, DFT studies and C-C and C-O catalytic applications. Inorganic 2017, Arabella Hotel & Spa, Hermanus, Western Cape, South Africa, 25 – 29 June 2017. (lecture).**ufs-029155**
12. **Brink, A., Visser, H.G., Roodt, A.,** 2017. Rhenium reactivity - manipulation by ligand development. (Oral). 67th Annual Meeting of the American Crystallography Association, New Orleans, USA, 26-30 May 2017.**ufs-029156**
13. **Nete, M., Purcell, W. and Nel, J.T.** 2017. Analysis of Non-Conducting Tantalite Minerals by Glow Discharge Optical Emission Spectrometry. **Chapter in Book**, pages 11-21. International Conference on Pure and Applied Chemistry (ICPAC 2016).Mauritius, in July 2016.**ufs-029215**
14. **Lötter, S.J., Purcell, W., Nel, J.T. and van Brecht, B.** 2017. Cation Influence on Zirconium/Hafnium Fluoride Coordination. **Chapter in Book**, pages 239-265. International Conference on Pure and Applied Chemistry (ICPAC 2016). Mauritius, in July 2016.**ufs-029217**
15. **Nete, M. and Purcell, W.** 2017. Beneficiation of Niobium and Tantalum from Tantalite Ore Using Physical and Chemical Processes. **Chapter in book**. Pages 267-283. International Conference on Pure and Applied Chemistry (ICPAC 2016). Mauritius, in July 2016.**ufs-029219**
16. **Govender, M., Fourie, E.** 2017. Synthesis and characterisation of ferrocenylalcohols anchored onto polyphosphazene polymeric supports for biomedical applications, International Conference on Phosphorus, Boron and Silicon, Paris, France, 3 - 5 July 2017.**ufs-029157**
17. **Elmakki, M.A., Venter, J.A., Venter, G.J.S. and Roodt, A.** 2017. Influence of various bidentate ligands on Rh(I) complexes. (poster) 24th Congress and general assembly of the International Union of Crystallography (IUCr), Hyderabad, India, 21-28 August 2017.**ufs-029158**
18. **Sebitlo, M.R., Erasmus, E. and Swarts, J.C.,** 2017. Rhodium-ferrocenyl complexes supported on phosphine-capped silicon wafers for heterogeneous catalysis applications. (Oral). Phosphorus, Boron and Silicon Conference, Paris, France, 3-5 July 2017.**ufs-029159**
19. **Alexander, O.T., Duvenhage, M.M., Brink, A., Swart, H.C., Muller, P., Kroon, R.E. and Visser, H.G.** 2017. The Fluoretic Difference in Homoleptic Mono-nuclear and Di-nuclear Indium Species (poster). 24th congress and general assembly of the international union of crystallography (IUCr) in Hyderabad, India from 21 - 28 August 2017.**ufs-029160.**
20. **Kama, D.V., Mokolokolo, P.P. and Alexander, O.T.** 2017. A South African PhD Student Perspective on the BRICS Initiative (oral). 24th Congress and general

assembly of the International union of Crystallography (IUCr) in Hyderabad, India from 21 - 28 August 2017. (Invited). [ufs-029162](#)

21. **Mokolokolo, P.P., Schutte-Smith, M. and Roodt, A.** 2017. Rhodium(I) Carbonyl Complexes as Model Nano Wires. (Poster) The 24th Congress and General Assembly of the International Union of Crystallography, Hyderabad, India. 21 - 28 August 2017. [ufs-029163](#)
22. **von Eschwege, K.G.** 2017. DFT for isomers in solution, redox potentials, transition states and favored reaction products. (oral) CHPC Conference, Pretoria, 3-7 Dec. 2017. [ufs-029301](#)
23. **van der Westhuizen, D., von Eschwege, K.G. and Conradie, J.** 2017. Berekeningschemie, spektrofotometriese en elektrochemiese ondersoek van $[\text{Ru}(\text{bpy})_3]^{2+}$ komplekse, Translated title: Computational chemistry, spectrophotometric and electrochemical study of $[\text{Ru}(\text{bpy})_3]^{2+}$ complexes. Natural Sciences Symposium for Postgraduate Students, University of Pretoria, Pretoria, South Africa, 2 – 3 November 2017. (poster presentation in Afrikaans). [ufs-029177](#)
24. **Roodt, A.** 2017. The African Light Source (AfLS): dreaming of a ‘BRIGHTER’ future. (Invited Lecture). The 24th Congress and General Assembly of the International Union of Crystallography, Hyderabad, India. 21 - 28 August. [ufs-029178](#)
25. **Roodt, A., Pretorius, C., Brink, A., Groenewald, F., Mokolokolo, P.P., Conradie, J. and Kama, D.V.** 2017. Metals ‘communicating’ in ‘dinuclear’ Rh(I) complexes? Understanding(?) metallophilic interactions... (Invited Lecture) 25th Solvenian-Croatian Crystallographic Meeting, Ljubljana, Slovenia, 14-18 June. [ufs-029180](#)
26. **Roodt, A.** 2017. Towards an African Crystallographic Association (AfCA). (Invited Lecture) The 24th Congress and General Assembly of the International Union of Crystallography, Hyderabad, India. 21 - 28 August. [ufs-029181](#)
27. **Roodt, A.** 2017. Crystallography in Society: Some Perspectives in South Africa and Expanding into Africa. (Invited Lecture) Crystallography and Society, Satellite meeting to IUCr2017. National Chemical Laboratories CSIR-NCL, Pune, India, 29 – 30 August. [ufs-029199](#)
28. **Molokoane, P.P., Schutte-Smith, M and Roodt, A.** 2017. Pyrones and Related Analogues in Applied Inorganic Chemistry. (Poster). The 24th Congress and General Assembly of the International Union of Crystallography, Hyderabad, India. 21 - 28 August. [ufs-029200](#)
29. **Roodt, A.** 2017. Integrated approach using Chemical Crystallography and Spectroscopy for solving difficult Chemical Reaction Mechanisms. (Plenary Lecture). Sixth Tunisian Crystallographic Meeting -TCM6; Djerba, Tunisia, 1-5 November. [ufs-029202](#)
30. **Roodt, A.** 2017. Fundamental chemistry of applied processes. (Invited Lecture). Technology and Human Resources for Industry Programme (THRIP) Symposium, SA

dti: “Accelerating Industrialisation through Exploitation of Scientific Research Findings”, Sandton, Johannesburg. 15-16 March.**ufs-029204**

31. **Roodt, A.** 2017. Expanding Crystallography as Science in(to) Africa: Some Initiatives. (Invited Lecture). The 24th Congress and General Assembly of the International Union of Crystallography, Hyderabad, India. 21 - 28 August.**ufs-029205**
32. **Gumede, T.P., Luyt, A.S., Pérez-Camargo, R.A. and Müller, A.J.** 2017. The influence of the presence of different amounts of paraffin wax on the isothermal crystallization of LLDPE, 25th POLYCHAR 2017, 9-13 October 2017, Kuala Lumpur, Malaysia.**ufs-029206**
33. **Dudić, D., Langner, E.H.G and Luyt, A.S.** 2017. Dielectric sensitization of zeolitic imidazole framework-8 (ZIF-8) nanopowder. X International Scientific Conference Contemporary Materials 2017, 9-10 November 2017, Banja Luka, Bosnia and Herzegovina.**ufs-029208**
34. **Škipina, B. , Kukrić, Z., Milošević, M., Luyt, A.S. and Dudić, D.** 2017. Enhancement of the surface dielectric and photodielectric properties of low density polyethylene by adding emodin, X International Scientific Conference Contemporary Materials 2017, 9-10 November 2017, Banja Luka, Bosnia and Herzegovina.**ufs-029209**
35. **Kama, D.V., Schutte-Smith, M., Brink, A., Visser, H.G. and Roodt, A.** 2017. Diphosphinoamine (PNP) Ligand effects in homogeneous catalysis and radiopharmaceuticals. (Poster) The 24th congress and general assembly of the international union of crystallography (IUCr), Hyderabad, India, 21 - 28 August 2017.**ufs-029372**
36. **Malimabe, M.A., Koao, L.F., Von Eschwege, K., Sefadi, S.J. & Swart, H.C.** 2017. Synthesis of Eu³⁺ doped ZnO nano-powders co-doped with Ce³⁺ synthesized by chemical bath deposition method. Poster presented at the 18th International Conference on Luminescence, João Pessoa, Brazil. 27 August – 1 September 2017.**ufs-029775 (fisika ingelees)**

Chiweshe, T.T. and Purcell, W. Chromium isolation from different mineral ores, 9th European Metallurgical Conference, Peer evaluated Proceedings of EMC, (2017), 2, 505 – 519.