



Plant Sciences - Research outputs 2024

Research Articles

Abdi, N., Van Biljon, A., Steyn, C. & Labuschagne, M. 2024. Effect of Arbuscular Mycorrhizal Fungi on yield attributes, and protein quantity and quality in bread wheat (*Triticum aestivum*) grown under drought stress. *Arid Land Research and Management* 38(4). DOI: 10.1080/15324982.2024.2331125.

Achilonu, C.C., Gryzenhout, M., Marais, G.J., Johar, D., Ghosh S. & Hassanin, S.O. 2024. Antifungal activity of *Carya illinoensis* extracts against *Alternaria alternata* pathogen and their cytotoxicity effects on HEK-293T cells: HPLC analysis of bioactive compounds. *Discover Applied Sciences* 6(2): 67-82. DOI: 10.1007/s42452-024-05721-8.

Achilonu, C.C., Kumar, P., Swart, H.C., Roos W.D. & Marais, G.J. 2024. Zinc oxide: nanoparticles (ZNO: Au NPs) exhibited antifungal efficacy against *Aspergillus niger* and *Aspergillus candidus*. *BioNanoScience* 1-15.

Afram, Y., Amenorpe, G., Bediako, E.A., Darkwa, A.A., Shandu, F.S., Labuschagne, M.T. & Amegbor, I.K. 2024. Induction of genetic variability of maize genotypes through radiation revealed mutants resistant to maize streak disease. *Applied Radiation and Isotopes* 207: 111279. DOI: 10.1016/j.apradiso.2024.111279.

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Boshoff, W.H.P., Visser, B., Bender, C.M. & Pretorius, Z.A. 2024. Pathogenicity of *Puccinia porri* on *Allium* species and varieties in South Africa. *Australasian Plant Pathology* 53: 15-30. DOI: 10.1007/s13313-023-00960-6.

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Books/Chapters in Books

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Research Reports

Boshoff, W.H.P. 2024. *Evaluation of wheat cultivars and lines for genetic resistance to rust diseases.* Report delivered to the South African Winter Cereal Industry Trust, Pretoria, South Africa.

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Figlan, S., Chaplot, V., Shimelis, H., Shamuyarira, K.W., Ngidi, A. & Mutanda, M. 2024. *Water use efficiency and soil carbon sequestration of selected indigenous and modern crop cultivars for sustainable agriculture intensification and climate change mitigation.* Report delivered to Water Research Council (WRC). ISBN 978-0-6392-0603-5.

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