

LIST OF PUBLICATIONS

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Peer Reviewed Scientific Publications

1. Olwetu A. Sindesi, Muinat N. Lewu, Bongani Ncube, Reckson Mulidzi & Francis B. Lewu., 2021. Mineral Composition of Potted Cabbage (*Brassica Oleracea* var, *Capitata* L.) grown in Zeolite amended sandy soil. *Agriculture (Pol'nohospodarstvo)*. Volume 67, number 3, 103–112. Mulidzi, A.R., 2021. Evaluating Sustainable Use & Management of Winery Solid Wastes through Composting. *South African Journal of Enology and Viticulture*, Volume 42 number 2, 193 – 200.
2. Masowa, M.M., Kutu, F.R., Babalola, O.O. Mulidzi, A.R., & Dlamini, P., 2021. Effects of Complementary and sole applications of inorganic fertilizers & winery solid waste compost on maize yield and soil health indices. *Emirates Journal of Food and Agriculture*, Volume 33, 565 – 574.
3. Adewole Tomiwa Adetunji, Bongani Ncube, Andre Harold Meyer, Olatunde Stephen Olatunji, **Reckson Mulidzi** & Francis Bayo Lewu., 2021. Soil pH, nitrogen, phosphatase and urease activities in response to cover crop species, termination stage and termination method. *Heliyon*, Volume 7, 1–10.
4. Van Huyssteen, I., **Mulidzi, A.R.**, Meyer, A.H. & Wooldridge, J., 2020. Alteration Index Three Facilitates Interpretation of β -Glucosidase, Acid-phosphatase and Urease Activities in Soils Irrigated with Diluted Winery Wastewater. *South African Journal of Enology and Viticulture*, Volume 41, number 2, 238-244.
5. **Mulidzi, A.R.**, Clarke, C.E. & Myburgh, P.A., 2020. Vulnerability of Selected Soils in the Different Rainfall Areas to Degradation and Excessive Leaching after Winery Wastewater Application. *South African Journal of Enology and Viticulture*, 41, number 1, 99-112.
6. Adetunji, AT., Ncube, B., **Mulidzi R** & Lewu, F.B., 2020. Potential Use of Soil Enzymes as Soil Quality Indicators in Agriculture. *Frontiers in Soil and Environmental Microbiology*, 57-64.
7. Adetunji, AT., Ncube, B., **Mulidzi R** & Lewu, F.B., 2020. Management impact and benefit of cover crops on soil quality: A review. *Soil and Tillage Research* , 204, 1-11.
8. Adetunji, AT., Ncube, B., Meyer, A.H., **Mulidzi R** & Lewu, F.B., 2020. Soil β -glucosidase activity, organic carbon and nutrients in plant tissue in response to cover crop species and management practices. *South African Journal of Plant and Soil*, 1-9.
9. **Mulidzi, A.R.**, Clarke, C.E. & Myburgh, P.A., 2019. Response of Soil Chemical Properties to Irrigation with winery wastewater on a well-drained sandy soil. *South African Journal of Enology and Viticulture*. Volume 40 (2). 1-12.

10. Mfeka, N., **Mulidzi, A.R.** & Lewu, F.B., 2019. Growth and yield parameters of three cowpea (*Vigna unguiculata* L. Walp) lines as affected by planting date and zinc application rate. *South African Journal of Science*. Volume 115 (1/2): 1-8.
11. Masowa, M.M., Kutu, F.R., Babalola, O.O. & **Mulidzi, A.R.**, 2018. Physico-chemical properties and phyto-toxicity assessment of co-composted winery solid wastes with and without effective microorganism inoculation. *Research on Crops journal*. Volume 19 (3): 549 – 559.
12. **Mulidzi, A.R.**, Clarke, C.E. & Myburgh, P.A., 2018. Annual Dynamics of winery wastewater volumes and quality and the impact of disposal on poorly drained duplex soils. *South African Journal of Enology and Viticulture*. Volume 39 (2). 305-314.
13. Ndololwana, N.G. **Mulidzi, R** & Lewu, F.B., 2018. Chemical properties of sandy soil and yield of *Brassica oleracea* var. capitata L. amended with winery waste compost and NPK fertilizer. *Journal of Food, Agriculture & Environment*. Volume 16 (2): 221 – 226.
14. Adetunji, A.T., Lewu, F.B., **Mulidzi, A.R.** and Ncube, B., 2017. The biological activity of β -glucosidase, phosphatase and urease as soil quality indicators: a review. *Journal of Soil Science and Plant Nutrition*. Volume 17 No 3. 794-807.
15. Muinat Nike Lewu, **Azwimbavhi Reckson Mulidzi**, Abe Shegro Gerrano and Patrick Olusanmi Adebola., 2017. Comparative Growth and Yield of Taro (*Colocasia esculenta*) Accessions Cultivated in the Western Cape, South Africa. *International Journal of Agriculture and Biology*. Volume 19. 589-594.
16. Mtimkulu, Y. Meyer, A.H, Mulidzi, A.R, Shange, P.L, & Nchu, F., 2017. Assessing and monitoring the effects of filter material amendments on the bio physicochemical properties during composting of solid winery waste under open field and varying climatic conditions. *Waste Management Journal*. Volume 59. 59-69.
17. Mulidzi, A.R., 2016. The effect of winery wastewater irrigation on the properties of selected soils from the South African Wine Region. PhD Dissertation, Stellenbosch University, Private Bag X1, 7602 Matieland (Stellenbosch), South Africa.
18. Mulidzi, A.R. & Wooldridge, J., 2016. Effect of Irrigation with Diluted Winery Wastewater on Enzyme Activity in Four Western Cape Soils. *Sustainability in Environment journal*. Vol. 1, No. 2, 141-156.
19. Mulidzi, A.R., Clarke, C.E. & Myburgh, P.A., 2015. Effect of Irrigation with Diluted Winery Wastewater on Cations and pH in Four Differently Textured Soils. *South African Journal of Enology and Viticulture*. Volume, 36, No.3, 400 – 410.

20. Mulidzi, A.R., Clarke, C.E. & Myburgh, P.A., 2016. Design of a Pot experiment to study the effect of irrigation with diluted winery wastewater on four differently textured soils. *Water SA* 42, 20- 25.
21. Mulidzi, A.R., Clarke, C.E. & Myburgh, P.A., 2016. Effect of Irrigation with Diluted Winery Wastewater on phosphorus in Four Differently Textured Soils. *South African Journal of Enology and Viticulture*. Volume, 37, No.1, 79-84.
22. Masowa, M.M., Kutu, F.R., Shange, L.P., Mulidzi, A.R. & Vanassche, F.M.G, 2015. The effect of winery solid waste compost application on maize growth, biomass yield, and nutrient content under greenhouse conditions. *Archives of Agronomy and Soil Science*. Vol, 62, No.8, 1082 – 1094.
23. Mulidzi, A.R., 2010. Winery and distillery wastewater treatment by constructed wetland with shorter retention time. *Water Science and Technology*. 61 No 10: 2611-2615.
24. Mulidzi, A.R., 2007. Winery wastewater treatment by constructed wetlands and the use of treated wastewater for cash crop production. *Water Science and Technology*. 56 No2: 103-109.
25. Mulidzi, A.R., 2001. Environmental impact of winery effluent in the Western and Northern Cape Provinces. Thesis, University of Pretoria, Private Bag X20, 0028 Hatfield (Pretoria), South Africa.

Popular articles

1. Volschenk T & **Mulidzi, A.R.**, 2019. Pomegranate Tree Performance during Critical Drought. *South African Fruit Journal*. June/July 65-67.
2. Nike Lewu, Theresa Volschenk & **Reckson Mulidzi.**, 2019. Pomegranate: Old Crop in Fashion Again. *South African Fruit Journal*. 64-66.
3. **Reckson Mulidzi**, Philisiwe Augustine, Minette Naude & Lourens Van Schoor., 2018. Guidelines for making compost using winery solid wastes. *Wineland*, July, 72-75.
4. **Mulidzi, A.R.**, 2017. Management of winery wastewater through constructed wetlands. *Wineland*, January, 73-74.
5. Du Plessis, K.R. Wooldridge, J & **Mulidzi, A.R.**, 2016. Bioremediation: a method for reducing chemical oxygen demand and turbidity in winery wastewater. *Wineland*, May, 71-73
6. Du Plessis, K.R. Wooldridge, J & **Mulidzi, A.R.**, 2016. Bioremediation of winery wastewater: effects on microbial diversity. *Wineland*

7. **Mulidzi, A.R**, Wooldridge, J, Laker, M.C & Van Schoor, L., 2009: Composition of effluents from wineries in the Western and Northern Cape Provinces I. Seasonal variations and differences between wineries. Wineland. January, Page 88 – 91.
8. **Mulidzi, A.R**, Wooldridge, J, Laker, M.C & Van Schoor, L., 2009: Composition of effluents from wineries in the Western and Northern Cape Provinces II. Impacts on Soil and Environment. Wineland, February, Page 61 – 67.
9. **Mulidzi, A.R**, Laker, MC, Van Schoor L & Louw, PJE, 2002: Fate of organic components of winery effluents on soil. Wineland. April, Page 82-83.
10. **Mulidzi, A.R.**, 2005: Monitoring the performance of constructed wetlands in California. Wineland. May, Page 85-87.
11. **Mulidzi, A.R.**, 2008: The cost of constructed wetland for winery wastewater treatment. Wineland. February, Page 66-67.

Articles in Proceedings

1. Shange, P. & **Mulidzi, A.R.**, 2015. Winery Solid Waste Management through Composting. In: 7th IWA Specialized Conference on Sustainable Viticulture, Winery Wastes and Agri-industrial Wastewater Management: Stellenbosch, South Africa, 23-24.
2. **Mulidzi, A.R.**, Clarke, C., Myburgh, P.A. & Roychoudhury., 2013. The Effect of winery wastewater irrigation on the chemical properties of four different soils. In: 6th International Specialized Conference on Viticulture and winery wastes: environmental impact and management. Narbonne, France.
3. **Mulidzi, A.R.**, 2009. Winery and distillery wastewater treatment by constructed wetlands with shorter retention time. In: 5th International Specialized Conference on Sustainable Viticulture: Winery Waste and Ecological Impacts Management. Verona, Italy. 133 – 137.
4. **Mulidzi, A.R.**, 2008. The Use of Constructed wetlands to treat Winery and Distillery Wastewater. In: 31st Conference of the South African Society for Enology and Viticulture in South Africa.: 44.
5. **Mulidzi, A.R.**, 2006. Winery Wastewater Treatment by Constructed Wetlands and the Use of treated wastewater for Cash Crop Production. In: IV International Specialized Conference on Sustainable Viticulture: Winery Wastes and Ecological Impact Management. Chile. 271-282.
6. **Mulidzi, A.R.** & Laker M.C., 2006. The Environmental Impact of Winery Wastewater (Effluent) on Soil. In: IV International Specialized Conference on Sustainable Viticulture: Winery Wastes and Ecological Impact Management. Chile. 19-22.

7. **Mulidzi, A.R.**, 2006. Irrigation of cash crops with treated winery wastewater. Wineland. Page 67.

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1. FOURIE, J.C., 2012. Soil Management in the Breede River Valley Wine Grape Region, South Africa. 3. Organic Matter Content and Macro-nutrient Content of a Medium-textured Soil. S. Afr. J. Enol. Vitic. 33, 105-114.
2. FOURIE, J.C., 2010. Soil Management in the Breede River Valley Wine Grape Region, South Africa. 3. Grapevine performance. S. Afr. J. Enol. Vitic. 32, 60-70.
3. FOURIE, J.C., Joubert, M. & Freitag K., 2010. Effect of organic and integrated soil management practices on the weed population in a Pink Lady apple orchard in the Elgin region. SA Fruit Journal February/March, 41-47.
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5. FOURIE, J.C., 2010. Soil Management in the Breede River Valley Wine Grape Region, South Africa. 1. Cover Crop Performance and Weed Control. S. Afr. J. Enol. Vitic. 31, 14-21.
6. FOURIE, J.C. & RAATH, P.J., 2009. Effect of organic and integrated soil cultivation practices on soil nutrient status and performance of a Sauvignon blanc vineyard situated in the Paarl wine district. Part 2: Grapevine performance. Wineland July, 77-81.
7. FOURIE, J.C. & RAATH, P.J., 2009. Effect of organic and integrated soil cultivation practices on soil nutrient status and performance of a Sauvignon blanc vineyard situated in the Paarl wine district. Part 1: Soil nutrient status. Wineland June, 81-83.
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9. FOURIE, J.C. & RAATH, P.J., 2008. Effect of organic and integrated soil cultivation practices on the weed population in a Sauvignon blanc vineyard situated in the Drakenstein area of the Paarl wine district. Wineland, 59-63.
10. ADDISON, P. & FOURIE, J.C., 2008. Cover crop management in the vineyards of the Lower Orange River region, South Africa: 2. Effect on plant parasitic nematodes. S. Afr. J. Enol. Vitic. 29, 26-32.
11. RAATH, P.J. & FOURIE, J.C., 2007. Guidelines for making compost on fruit farms. SA Fruit J. Oct/Nov, 31-34.
12. FOURIE, J.C., LOUW, P.J.E. & AGENBAG, G.A., 2007. Cover crop management in a Sauvignon blanc/Ramsey vineyard in the semi-arid Olifants River Valley, South Africa. 3. Effect of different cover crops and cover crop management practices on the organic matter and macro-nutrient contents of a sandy soil. S. Afr. J. Enol. Vitic. 28, 92-100.
13. FOURIE, J.C., LOUW, P.J.E. & AGENBAG, G.A., 2007. Cover crop management in a Sauvignon blanc/Ramsey vineyard in the semi-arid Olifants River Valley, South Africa. Effect of different cover crops and cover crop management practices on grapevine performance. S. Afr. J. Enol. Vitic. 28, 81-91.
14. ADDISON, P., SAMWAYS, M. & FOURIE, J., 2007. Die uitwerking van dekgewasse op miere en witluise in die wingerd. Wineland 43, 65-67.
15. FOURIE, J.C., LOUW, P.J.E. & Agenbag, G.A., 2007. Cover crop management in a Chardonnay/99 Richter vineyard in the Coastal wine grape region, South Africa. 3. Effect of different cover crops and cover crop management practices on organic matter and macro-nutrient content of a medium textured soil. S. Afr. J. Enol. Vitic. 28, 61-68.
16. FOURIE, J.C., 2007. The evaluation and management of different grasses and legumes as potential cover crops in the vineyards of South Africa. PhD dissertation, University of Stellenbosch.
17. RAATH, P.J. & FOURIE J.C., 2006. Guidelines for making compost on a wine grape enterprise. Wineland 197, 96-97.

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19. FOURIE, J.C., LOUW, P.J.E. & Agenbag, G.A., 2006. Cover crop management in a Chardonnay/99 Richter vineyard in the Coastal wine grape region, South Africa. 1. Effect of two management practices on selected grass and broadleaf species. *S. Afr. J. Enol. Vitic.* 27, 167-177.
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25. FOURIE, J.C., 2002. Organic weed control: approach and practical considerations. In: *Organic viticulture made easy* (Afrikaans).
26. FOURIE, J.C. & OCHSE, C.H., 2002. The effect of different establishment techniques on cover crop performance. *Wynboer* 154, 11-12. (Afrikaans).
27. FOURIE, J.C. & OCHSE, C.H., 2002. Efficacy of different post-emergence herbicides for the control of broadleaf cover crops. *Wynboer* 155, 9-10. (Afrikaans).
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29. FOURIE, J.C., LOUW, P.J.E. & AGENBAG, G.A., 2002. Cover crop management and grapevine performance in the Olifants River Valley. *Wynboer* 158, 103-108. (Afrikaans)
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31. FOURIE, J.C., 2002. Mechanical soil cultivation for the alleviation of soil compaction and root pruning in vineyards. In: *Soil science aspects for optimum grape quality in the Lower Orange River region* (Afrikaans).
32. FOURIE, J.C., 2002. The suitability of different cover crops for sustainable cover crop management in the vineyards of the Olifants River Valley and adjacent regions (Afrikaans). *Wineland* 154, 75-78
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38. RAATH, P.J. & FOURIE J.C., 2001. Prerequisites for organic cultivation of winegrapes. *Wynland* 148, 109-111.
39. FOURIE, J.C., 2001. The use of cover crops in an integrated approach to Deciduous fruit production in the Koue Bokkeveld. In: *Soil science aspects for optimum production and fruit quality in the Koue Bokkeveld region* (Afrikaans).

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42. FOURIE, J.C., 2001. Mechanical soil cultivation for the alleviation of soil compaction and root pruning in vineyards. In: Soil science aspects for optimum wine quality in the Breede River Valley (Afrikaans).
43. FOURIE, J.C., 2001. The use of cover crops in an integrated approach to tablegrape production in the Hex and Berg River Valley. In: Soil science aspects for optimum wine quality in the Breede River Valley (Afrikaans).
44. FOURIE, J.C., 2001. Mechanical soil cultivation for the alleviation of soil compaction and root pruning in vineyards. In: Soil science aspects for optimum wine quality in the Hex and Berg River Valley (Afrikaans).
45. FOURIE, J.C., 2000. Organic vs. integrated production: Soil cultivation and weed control. Handbook for South African Society for Enology and Viticulture Table Grape short course, 1 August, Upington. SASEV, P.O. Box X2092, 7601 Dennesig, 3 pp. (Afrikaans).
46. FOURIE, J.C., 2000. Organic vs. integrated production: Soil cultivation and weed control. Handbook for South African Society for Enology and Viticulture Table Grape short course, 24 August, Goudini Spa. SASEV, P.O. Box X2092, 7601 Dennesig, 3 pp. (Afrikaans).
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48. FOURIE, J.C., 2000. Mechanical soil cultivation for the alleviation of soil compaction and root pruning in Stone fruit orchards. . In: Soil science aspects for optimum production and fruit quality in the Breede River Valley (Afrikaans).
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