

# Mokhele E Moeletsi

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

880  
citations

516561

16  
h-index

526166

27  
g-index

48  
all docs

48  
docs citations

48  
times ranked

918  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Greenhouse gas emissions from different crop production and management practices in South Africa. <i>Environmental Development</i> , 2016, 19, 23-35.  | 1.8 | 100       |
| 2  | A review of greenhouse gas emissions from the agriculture sector in Africa. <i>Agricultural Systems</i> , 2018, 166, 124-134.  | 3.2 | 75        |
| 3  | Barriers Affecting Sustainable Agricultural Productivity of Smallholder Farmers in the Eastern Free State of South Africa. <i>Sustainability</i> , 2019, 11, 3003.   | 1.6 | 53        |
| 4  | ENSO and implications on rainfall characteristics with reference to maize production in the Free State Province of South Africa. <i>Physics and Chemistry of the Earth</i> , 2011, 36, 715-726.                                | 1.2 | 46        |
| 5  | SWAT model uncertainty analysis, calibration and validation for runoff simulation in the Luvuvhu River catchment, South Africa. <i>Physics and Chemistry of the Earth</i> , 2018, 105, 115-124.                                | 1.2 | 46        |
| 6  | Comparison of the Hargreaves and Samani equation and the Thornthwaite equation for estimating dekadal evapotranspiration in the Free State Province, South Africa. <i>Physics and Chemistry of the Earth</i> , 2013, 66, 4-15. | 1.2 | 34        |
| 7  | Rainy season characteristics of the Free State Province of South Africa with reference to rain-fed maize production. <i>Water S A</i> , 2012, 38, .  | 0.2 | 30        |
| 8  | Present status of soil moisture estimation over the African continent. <i>Journal of Hydrology: Regional Studies</i> , 2019, 21, 14-24.  | 1.0 | 28        |
| 9  | Assessment of agricultural drought using a simple water balance model in the Free State Province of South Africa. <i>Theoretical and Applied Climatology</i> , 2012, 108, 425-450.   | 1.3 | 26        |
| 10 | Evaluation of an inverse distance weighting method for patching daily and dekadal rainfall over the Free State Province, South Africa. <i>Water S A</i> , 2016, 42, 466.   | 0.2 | 26        |
| 11 | Comparative assessment of bio-fertiliser quality of cow dung and anaerobic digestion effluent. <i>Cogent Food and Agriculture</i> , 2018, 4, 1435019.  | 0.6 | 25        |
| 12 | The Use of Rainfall Forecasts as a Decision Guide for Small-scale Farming in Limpopo Province, South Africa. <i>Journal of Agricultural Education and Extension</i> , 2013, 19, 133-145.                                       | 1.1 | 24        |
| 13 | Agroclimatological suitability mapping for dryland maize production in Lesotho. <i>Theoretical and Applied Climatology</i> , 2013, 114, 227-236.   | 1.3 | 22        |
| 14 | 2004 Methane and Nitrous Oxide Emissions from Manure Management in South Africa. <i>Animals</i> , 2015, 5, 193-205.  | 1.0 | 22        |
| 15 | A simple agroclimatic index to delineate suitable growing areas for rainfed maize production in the Free State Province of South Africa. <i>Agricultural and Forest Meteorology</i> , 2012, 162-163, 63-70.                    | 1.9 | 18        |
| 16 | Development of an agroclimatological risk tool for dryland maize production in the Free State Province of South Africa. <i>Computers and Electronics in Agriculture</i> , 2013, 95, 108-121.                                   | 3.7 | 18        |
| 17 | Evaluation of Infilling Methods for Time Series of Daily Temperature Data: Case Study of Limpopo Province, South Africa. <i>Climate</i> , 2019, 7, 86.   | 1.2 | 18        |
| 18 | Socio-Economic Barriers to Adoption of Electric Vehicles in South Africa: Case Study of the Gauteng Province. <i>World Electric Vehicle Journal</i> , 2021, 12, 167.   | 1.6 | 18        |

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|----|---|-----|-----------|
| 19 | Factors Determining the Adoption of Strategies Used by Smallholder Farmers to Cope with Climate Variability in the Eastern Free State, South Africa. <i>Agriculture (Switzerland)</i> , 2020, 10, 410.              | 1.4 | 17        |
| 20 | Seasonal variation of reference evapotranspiration and Priestley-Taylor coefficient in the eastern Free State, South Africa. <i>Agricultural Water Management</i> , 2017, 187, 122-130.                             | 2.4 | 16        |
| 21 | Enteric Methane Emissions Estimate for Livestock in South Africa for 1990–2014. <i>Atmosphere</i> , 2017, 8, 69.  | 1.0 | 16        |
| 22 | Use of standardized precipitation evapotranspiration index to investigate drought relative to maize, in the Luvuvhu River catchment area, South Africa. <i>Physics and Chemistry of the Earth</i> , 2017, 102, 1-9. | 1.2 | 15        |
| 23 | Trends of carbon emissions from applications of nitrogen fertiliser and crop residues to agricultural soils in South Africa. <i>Journal of Environmental Management</i> , 2020, 272, 111056.                        | 3.8 | 14        |
| 24 | Emission factors and carbon emissions of methane from enteric fermentation of cattle produced under different management systems in South Africa. <i>Journal of Cleaner Production</i> , 2020, 265, 121931.         | 4.6 | 14        |
| 25 | The Study of Frost Occurrence in Free State Province of South Africa. <i>Advances in Meteorology</i> , 2016, 2016, 1-9.   | 0.6 | 12        |
| 26 | Dry spells assessment with reference to the maize crop in the Luvuvhu River catchment of South Africa. <i>Physics and Chemistry of the Earth</i> , 2016, 92, 99-111.  | 1.2 | 11        |
| 27 | Analysis of potential future droughts limiting maize production, in the Luvuvhu River catchment area, South Africa. <i>Physics and Chemistry of the Earth</i> , 2018, 105, 44-51.                                   | 1.2 | 11        |
| 28 | Provincial cattle carbon emissions from enteric fermentation and manure management in South Africa. <i>Environmental Research</i> , 2021, 195, 110833.  | 3.7 | 11        |
| 29 | Mapping of Maize Growing Period over the Free State Province of South Africa: Heat Units Approach. <i>Advances in Meteorology</i> , 2017, 2017, 1-11.   | 0.6 | 9         |
| 30 | Feminization of African Agriculture and the Meaning of Decision-Making for Empowerment and Sustainability. <i>Sustainability</i> , 2021, 13, 8993.  | 1.6 | 9         |
| 31 | Status of electric vehicles in South Africa and their carbon mitigation potential. <i>Scientific African</i> , 2021, 14, e00999.  | 0.7 | 9         |
| 32 | Spatiotemporal Variation of Frost within Growing Periods. <i>Advances in Meteorology</i> , 2017, 2017, 1-11.  | 0.6 | 8         |
| 33 | The use of Water Requirement Satisfaction Index for assessing agricultural drought on rain-fed maize, in the Luvuvhu River catchment, South Africa. <i>Agricultural Water Management</i> , 2020, 237, 106142.       | 2.4 | 8         |
| 34 | From Policy Promises to Result through Innovation in African Agriculture?. <i>World</i> , 2021, 2, 253-266.   | 1.0 | 8         |
| 35 | Can Famine Be Averted? A Spatiotemporal Assessment of The Impact of Climate Change on Food Security in The Luvuvhu River Catchment of South Africa. <i>Land</i> , 2021, 10, 527.                                    | 1.2 | 7         |
| 36 | Introduction of household biogas digesters in rural farming households of the Maluti-a-Phofung municipality, South Africa. <i>Journal of Energy in Southern Africa</i> , 2019, 30, .                                | 0.5 | 7         |

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|----|--|-----|-----------|
| 37 | Intra-seasonal rainfall variability during the maize growing season in the northern lowlands of Lesotho. <i>Theoretical and Applied Climatology</i> , 2015, 120, 575-585.                                  | 1.3 | 6         |
| 38 | Projected Direct Carbon Dioxide Emission Reductions as a Result of the Adoption of Electric Vehicles in Gauteng Province of South Africa. <i>Atmosphere</i> , 2020, 11, 591.                               | 1.0 | 6         |
| 39 | Assessing the frequency of drought/flood severity in the Luvuvhu River catchment, Limpopo Province, South Africa. <i>Water S A</i> , 2021, 47, .   | 0.2 | 6         |
| 40 | Prospects of an agricultural drought early warning system in South Africa. <i>International Journal of Disaster Risk Reduction</i> , 2021, 66, 102615.   | 1.8 | 6         |
| 41 | Assessment of three models for estimating daily net radiation in southern Africa. <i>Agricultural Water Management</i> , 2020, 229, 105951.  | 2.4 | 5         |
| 42 | Differences in soil microbial communities and enzyme activity due to the application of bioslurry under cultivation. <i>South African Journal of Plant and Soil</i> , 2020, 37, 283-291.                   | 0.4 | 4         |
| 43 | Improving the Food and Nutritional Security of Smallholder Farmers in South Africa: Evidence from the InnovAfrica Project. <i>Sustainability</i> , 2021, 13, 9902.   | 1.6 | 3         |
| 44 | Development and Evaluation of Pedotransfer Functions to Estimate Soil Moisture Content at Field Capacity and Permanent Wilting Point for South African Soils. <i>Water (Switzerland)</i> , 2021, 13, 2639. | 1.2 | 3         |
| 45 | Agricultural Cropping Systems in South Africa and Their Greenhouse Gas Emissions: A Review. <i>Energy, Environment, and Sustainability</i> , 2019, , 57-71.  | 0.6 | 3         |
| 46 | Future Policy and Technological Advancement Recommendations for Enhanced Adoption of Electric Vehicles in South Africa: A Survey and Review. <i>Sustainability</i> , 2021, 13, 12535.                      | 1.6 | 3         |
| 47 | Changes in annual extreme temperature and heat indices in Limpopo province: period 1941â€“2016. <i>Theoretical and Applied Climatology</i> , 2021, 143, 1327-1339.   | 1.3 | 2         |
| 48 | Development and validation of an operational multi-layered model for estimation of soil moisture at point-scale in South Africa. <i>South African Journal of Plant and Soil</i> , 0, , 1-13.               | 0.4 | 2         |