

# Vimbayi Chimonyo

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,098  
citations

516710

16  
h-index

434195

31  
g-index

43  
all docs

43  
docs citations

43  
times ranked

999  
citing authors

#	ARTICLE	IF	CITATIONS
1	Datasets for the development of hemp ( <i>Cannabis sativa</i> L.) as a crop for the future in tropical environments (Malaysia). <i>Data in Brief</i> , 2022, 40, 107807.	1.0	5
2	Diversity and Diversification: Ecosystem Services Derived From Underutilized Crops and Their Co-benefits for Sustainable Agricultural Landscapes and Resilient Food Systems in Africa. <i>Frontiers in Agronomy</i> , 2022, 4, .	3.3	7
3	Estimation of Maize Foliar Temperature and Stomatal Conductance as Indicators of Water Stress Based on Optical and Thermal Imagery Acquired Using an Unmanned Aerial Vehicle (UAV) Platform. <i>Drones</i> , 2022, 6, 169.	4.9	15
4	Multi-criteria suitability analysis for neglected and underutilised crop species in South Africa. <i>PLoS ONE</i> , 2021, 16, e0244734.	2.5	17
5	Evaluation of Land Suitability Methods with Reference to Neglected and Underutilised Crop Species: A Scoping Review. <i>Land</i> , 2021, 10, 125.	2.9	44
6	Yield and water use gaps in cereal multicrop systems in sub-Saharan Africa under climate change. , 2021, , 313-329.		0
7	Investigation of the optimum planting dates for maize varieties using a hybrid approach: A case of Hwedza, Zimbabwe. <i>Heliyon</i> , 2021, 7, e06109.	3.2	8
8	Distribution of antioxidants in different parts of <i>Moringa oleifera</i> seedlings. <i>Acta Horticulturae</i> , 2021, , 157-162.	0.2	0
9	Biochemical response of <i>Moringa oleifera</i> to temperature. <i>Acta Horticulturae</i> , 2021, , 43-50.	0.2	1
10	Application of Drone Technologies in Surface Water Resources Monitoring and Assessment: A Systematic Review of Progress, Challenges, and Opportunities in the Global South. <i>Drones</i> , 2021, 5, 84.	4.9	41
11	Marginal more than mesic sites benefit from groundnut diversification of maize: Increased yield, protein, stability, and profits. <i>Agriculture, Ecosystems and Environment</i> , 2021, 320, 107585.	5.3	10
12	A framework for the development of hemp ( <i>Cannabis sativa</i> L.) as a crop for the future in tropical environments. <i>Industrial Crops and Products</i> , 2021, 172, 113999.	5.2	29
13	Crop model ideotyping for agricultural diversification. <i>MethodsX</i> , 2021, 8, 101420.	1.6	14
14	A Comparative Estimation of Maize Leaf Water Content Using Machine Learning Techniques and Unmanned Aerial Vehicle (UAV)-Based Proximal and Remotely Sensed Data. <i>Remote Sensing</i> , 2021, 13, 4091.	4.0	32
15	Neglected and Underutilised Crops: A Systematic Review of Their Potential as Food and Herbal Medicinal Crops in South Africa. <i>Frontiers in Pharmacology</i> , 2021, 12, 809866.	3.5	17
16	Ecosystem services in doubled-up legume systems. , 2020, , 171-180.		2
17	Optimizing Traditional Cropping Systems Under Climate Change: A Case of Maize Landraces and Bambara Groundnut. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	3.9	15
18	Prospects of Improving Agricultural and Water Productivity through Unmanned Aerial Vehicles. <i>Agriculture (Switzerland)</i> , 2020, 10, 256.	3.1	37

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19	Multi-Spatial Resolution Satellite and sUAS Imagery for Precision Agriculture on Smallholder Farms in Malawi. <i>Photogrammetric Engineering and Remote Sensing</i> , 2020, 86, 107-119.	0.6	14
20	Moisture stress on physiology and yield of some indigenous leafy vegetables under field conditions. <i>South African Journal of Botany</i> , 2019, 126, 85-91.	2.5	7
21	Nutritional quality of selected African leafy vegetables cultivated under varying water regimes and different harvests. <i>South African Journal of Botany</i> , 2019, 126, 78-84.	2.5	9
22	Postharvest drying maintains phenolic, flavonoid and gallotannin content of some cultivated African leafy vegetables. <i>Scientia Horticulturae</i> , 2019, 255, 70-76.	3.6	10
23	Legume diversification and weed management in African cereal-based systems. <i>Agricultural Systems</i> , 2019, 174, 83-94.	6.1	22
24	Prospects of orphan crops in climate change. <i>Planta</i> , 2019, 250, 695-708.	3.2	156
25	Grain Legumes Increase Yield Stability in Maize Based Cropping Systems. <i>Crop Science</i> , 2019, 59, 1222-1235.	1.8	28
26	Mainstreaming Underutilized Indigenous and Traditional Crops into Food Systems: A South African Perspective. <i>Sustainability</i> , 2019, 11, 172.	3.2	87
27	Participatory variety selection of maize genotypes in the Eastern Cape Province of South Africa. <i>South African Journal of Agricultural Extension</i> , 2019, 47, .	0.5	5
28	Maize yield and profitability tradeoffs with social, human and environmental performance: Is sustainable intensification feasible?. <i>Agricultural Systems</i> , 2018, 162, 77-88.	6.1	67
29	Modelling climate change impact: A case of bambara groundnut ( <i>Vigna subterranea</i> ). <i>Physics and Chemistry of the Earth</i> , 2018, 105, 25-31.	2.9	25
30	Prospects for Improving Irrigated Agriculture in Southern Africa: Linking Water, Energy and Food. <i>Water (Switzerland)</i> , 2018, 10, 1881.	2.7	48
31	Sorghum radiation use efficiency and biomass partitioning in intercrop systems. <i>South African Journal of Botany</i> , 2018, 118, 76-84.	2.5	13
32	Developing a Roadmap for Improving Neglected and Underutilized Crops: A Case Study of South Africa. <i>Frontiers in Plant Science</i> , 2017, 8, 2143.	3.6	83
33	Status of Underutilised Crops in South Africa: Opportunities for Developing Research Capacity. <i>Sustainability</i> , 2017, 9, 1569.	3.2	75
34	Assessment of sorghum-cowpea intercrop system under waterlimited conditions using a decision support tool. <i>Water S A</i> , 2016, 42, 316.	0.4	9
35	Simulating yield and water use of a sorghum-cowpea intercrop using APSIM. <i>Agricultural Water Management</i> , 2016, 177, 317-328.	5.6	40
36	Water use and productivity of a sorghum-cowpea-bottle gourd intercrop system. <i>Agricultural Water Management</i> , 2016, 165, 82-96.	5.6	51

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37	Perspective on crop modelling in the management of intercropping systems. Archives of Agronomy and Soil Science, 2015, , 1-19.	2.6	14
38	Genotype × environment interactions and yield stability of stress-tolerant open-pollinated maize varieties in the Eastern Cape province, South Africa. South African Journal of Plant and Soil, 2014, 31, 61-68.	1.1	13
39	Seed Performance of Selected Bottle Gourd ( <i>Lagenaria siceraria</i> (Molina) Standl.). American Journal of Experimental Agriculture, 2013, 3, 740-766.	0.2	22