Vimbayi Chimonyo

List of Publications by Year
in descending order

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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	Prospects of orphan crops in climate change. Planta, 2019, 250, 695-708.	3.2	156
2	Mainstreaming Underutilized Indigenous and Traditional Crops into Food Systems: A South African Perspective. Sustainability, 2019, 11, 172.	3.2	87
3	Developing a Roadmap for Improving Neglected and Underutilized Crops: A Case Study of South Africa. Frontiers in Plant Science, 2017, 8, 2143.	3.6	83
4	Status of Underutilised Crops in South Africa: Opportunities for Developing Research Capacity. Sustainability, 2017, 9, 1569.	3.2	75
5	Maize yield and profitability tradeoffs with social, human and environmental performance: Is sustainable intensification feasible?. Agricultural Systems, 2018, 162, 77-88.	6.1	67
6	Water use and productivity of a sorghumâ€“cowpeaâ€“bottle gourd intercrop system. Agricultural Water Management, 2016, 165, 82-96.	5.6	51
7	Prospects for Improving Irrigated Agriculture in Southern Africa: Linking Water, Energy and Food. Water (Switzerland), 2018, 10, 1881.	2.7	48
8	Evaluation of Land Suitability Methods with Reference to Neglected and Underutilised Crop Species: A Scoping Review. Land, 2021, 10, 125.	2.9	44
9	Application of Drone Technologies in Surface Water Resources Monitoring and Assessment: A Systematic Review of Progress, Challenges, and Opportunities in the Global South. Drones, 2021, 5, 84.	4.9	41
10	Simulating yield and water use of a sorghumâ€“cowpea intercrop using APSIM. Agricultural Water Management, 2016, 177, 317-328.	5.6	40
11	Prospects of Improving Agricultural and Water Productivity through Unmanned Aerial Vehicles. Agriculture (Switzerland), 2020, 10, 256.	3.1	37
12	A Comparative Estimation of Maize Leaf Water Content Using Machine Learning Techniques and Unmanned Aerial Vehicle (UAV)-Based Proximal and Remotely Sensed Data. Remote Sensing, 2021, 13, 4091.	4.0	32
13	A framework for the development of hemp (Cannabis sativa L.) as a crop for the future in tropical environments. Industrial Crops and Products, 2021, 172, 113999.	5.2	29
14	Grain Legumes Increase Yield Stability in Maize Based Cropping Systems. Crop Science, 2019, 59, 1222-1235.	1.8	28
15	Modelling climate change impact: A case of bambara groundnut (Vigna subterranea). Physics and Chemistry of the Earth, 2018, 105, 25-31.	2.9	25
16	Legume diversification and weed management in African cereal-based systems. Agricultural Systems, 2019, 174, 83-94.	6.1	22
17	Seed Performance of Selected Bottle Gourd (Lagenaria siceraria (Molina) Standl.). American Journal of Experimental Agriculture, 2013, 3, 740-766.	0.2	22
18	Multi-criteria suitability analysis for neglected and underutilised crop species in South Africa. PLoS ONE, 2021, 16, e0244734.	2.5	17

#	Article	IF	Citations
19	Neglected and Underutilised Crops: A Systematic Review of Their Potential as Food and Herbal Medicinal Crops in South Africa. Frontiers in Pharmacology, 2021, 12, 809866.	3.5	17
20	Optimizing Traditional Cropping Systems Under Climate Change: A Case of Maize Landraces and Bambara Groundnut. Frontiers in Sustainable Food Systems, 2020, 4, .	3.9	15
21	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. Drones, 2022, 6, 169.	4.9	15
22	Perspective on crop modelling in the management of intercropping systems. Archives of Agronomy and Soil Science, 2015, , 1-19.	2.6	14
23	Multi-Spatial Resolution Satellite and sUAS Imagery for Precision Agriculture on Smallholder Farms in Malawi. Photogrammetric Engineering and Remote Sensing, 2020, 86, 107-119.	0.6	14
24	Crop model ideotyping for agricultural diversification. MethodsX, 2021, 8, 101420.	1.6	14
25	Genotype Ã— 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
26	Sorghum radiation use efficiency and biomass partitioning in intercrop systems. South African Journal of Botany, 2018, 118, 76-84.	2.5	13
27	Postharvest drying maintains phenolic, flavonoid and gallotannin content of some cultivated African leafy vegetables. Scientia Horticulturae, 2019, 255, 70-76.	3.6	10
28	Marginal more than mesic sites benefit from groundnut diversification of maize: Increased yield, protein, stability, and profits. Agriculture, Ecosystems and Environment, 2021, 320, 107585.	5.3	10
29	Assessment of sorghumâ€“cowpea intercrop system under waterlimited conditions using a decision support tool. Water S A, 2016, 42, 316.	0.4	9
30	Nutritional quality of selected African leafy vegetables cultivated under varying water regimes and different harvests. South African Journal of Botany, 2019, 126, 78-84.	2.5	9
31	Investigation of the optimum planting dates for maize varieties using a hybrid approach: A case of Hwedza, Zimbabwe. Heliyon, 2021, 7, e06109.	3.2	8
32	Moisture stress on physiology and yield of some indigenous leafy vegetables under field conditions. South African Journal of Botany, 2019, 126, 85-91.	2.5	7
33	Diversity and Diversification: Ecosystem Services Derived From Underutilized Crops and Their Co-benefits for Sustainable Agricultural Landscapes and Resilient Food Systems in Africa. Frontiers in Agronomy, 2022, 4, .	3.3	7
34	Participatory variety selection of maize genotypes in the Eastern Cape Province of South Africa. South African Journal of Agricultural Extension, 2019, 47, .	0.5	5
35	Datasets for the development of hemp (Cannabis sativa L.) as a crop for the future in tropical environments (Malaysia). Data in Brief, 2022, 40, 107807.	1.0	5
36	Ecosystem services in doubled-up legume systems. , 2020, , 171-180.		2

#	Article	IF	Citations
37	Biochemical response of Moringa oleifera to temperature. Acta Horticulturae, 2021, , 43-50.	0.2	1
38	Yield and water use gaps in cereal multicrop systems in sub-Saharan Africa under climate change. , 2021, , 313-329.		0
39	Distribution of antioxidants in different parts of Moringa oleifera seedlings. Acta Horticulturae, 2021, , 157-162.	0.2	0