

# Albert T Modi

## List of Publications by Year in descending order

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85  
papers

2,392  
citations

257450

24  
h-index

243625

44  
g-index

87  
all docs

87  
docs citations

87  
times ranked

1921  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Potential Role of Neglected and Underutilised Crop Species as Future Crops under Water Scarce Conditions in Sub-Saharan Africa. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 5685-5711.	2.6	297
2	Prospects of orphan crops in climate change. <i>Planta</i> , 2019, 250, 695-708.	3.2	156
3	An integrative analytical model for the water-energy-food nexus: South Africa case study. <i>Environmental Science and Policy</i> , 2020, 109, 15-24.	4.9	104
4	Climate Change Adaptation through the Water-Energy-Food Nexus in Southern Africa. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2306.	2.6	98
5	Bambara groundnut: an exemplar underutilised legume for resilience under climate change. <i>Planta</i> , 2019, 250, 803-820.	3.2	91
6	Mainstreaming Underutilized Indigenous and Traditional Crops into Food Systems: A South African Perspective. <i>Sustainability</i> , 2019, 11, 172.	3.2	87
7	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
8	The Water-Energy-Food Nexus as a Tool to Transform Rural Livelihoods and Well-Being in Southern Africa. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2970.	2.6	83
9	Status of Underutilised Crops in South Africa: Opportunities for Developing Research Capacity. <i>Sustainability</i> , 2017, 9, 1569.	3.2	75
10	Water-Food-Nutrition-Health Nexus: Linking Water to Improving Food, Nutrition and Health in Sub-Saharan Africa. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 107.	2.6	70
11	Food and Nutrition Insecurity in Selected Rural Communities of KwaZulu-Natal, South Africa-Linking Human Nutrition and Agriculture. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 17.	2.6	66
12	Potential role for wild vegetables in household food security: a preliminary case study in Kwazulu-Natal, South Africa. <i>African Journal of Food, Agriculture, Nutrition and Development</i> , 2006, 6, 1.	0.2	65
13	Growth, phenological and yield responses of a bambara groundnut ( <i>Vigna subterranea</i> (L.) Tj ETQq1 1 0.784314 rgBT /Overloc Soil, 2013, 30, 69-79.	1.1	51
14	Water use and productivity of a sorghum-cowpea-bottle gourd intercrop system. <i>Agricultural Water Management</i> , 2016, 165, 82-96.	5.6	51
15	Expounding the Value of Grain Legumes in the Semi- and Arid Tropics. <i>Sustainability</i> , 2017, 9, 60.	3.2	51
16	Prospects for Improving Irrigated Agriculture in Southern Africa: Linking Water, Energy and Food. <i>Water (Switzerland)</i> , 2018, 10, 1881.	2.7	48
17	Parameterisation and evaluation of the FAO-AquaCrop model for a South African taro ( <i>Colocasia</i> ) Tj ETQq1 1 0.784314 rgBT /Overloc	4.8	46
18	Southern Africa's Water-Energy Nexus: Towards Regional Integration and Development. <i>Water (Switzerland)</i> , 2016, 8, 235.	2.7	46

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19	Operationalising the water-energy-food nexus through the theory of change. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111416.	16.4	45
20	Biofortified Crops for Combating Hidden Hunger in South Africa: Availability, Acceptability, Micronutrient Retention and Bioavailability. <i>Foods</i> , 2020, 9, 815.	4.3	44
21	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
22	Response of taro ( <i>Colocasia esculenta</i> L. Schott) landraces to varying water regimes under a rainshelter. <i>Agricultural Water Management</i> , 2013, 121, 102-112.	5.6	37
23	What do subsistence farmers know about indigenous crops and organic farming? Preliminary experience in KwaZulu-Natal. <i>Development Southern Africa</i> , 2003, 20, 675-684.	2.0	30
24	Effects of Cowpea-Amaranth Intercropping and Fertiliser Application on Soil Phosphatase Activities, Available Soil Phosphorus, and Crop Growth Response. <i>Agronomy</i> , 2020, 10, 79.	3.0	28
25	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
26	The Potential of Integrating Provitamin A-Biofortified Maize in Smallholder Farming Systems to Reduce Malnourishment in South Africa. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 805.	2.6	24
27	Growth temperature and plant age influence on nutritional quality of <i>Amaranthus</i> leaves and seed germination capacity. <i>Water S A</i> , 2018, 33, 369.	0.4	23
28	Nutrient Content and Nutritional Water Productivity of Selected Grain Legumes in Response to Production Environment. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1300.	2.6	22
29	Urban nexus and transformative pathways towards a resilient Gauteng City-Region, South Africa. <i>Cities</i> , 2021, 116, 103266.	5.6	22
30	WHEAT SEED QUALITY IN RESPONSE TO MOLYBDENUM AND PHOSPHORUS. <i>Journal of Plant Nutrition</i> , 2002, 25, 2409-2419.	1.9	20
31	Migration under Climate Change in Southern Africa: A Nexus Planning Perspective. <i>Sustainability</i> , 2020, 12, 4722.	3.2	19
32	Assessing Progress towards Sustainable Development Goals through Nexus Planning. <i>Water (Switzerland)</i> , 2021, 13, 1321.	2.7	18
33	A Typology of the Level of Market Participation among Smallholder Farmers in South Africa: Limpopo and Mpumalanga Provinces. <i>Sustainability</i> , 2021, 13, 7699.	3.2	18
34	Multi-criteria suitability analysis for neglected and underutilised crop species in South Africa. <i>PLoS ONE</i> , 2021, 16, e0244734.	2.5	17
35	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
36	Parameterization and Testing of AquaCrop for a South African Bambara Groundnut Landrace. <i>Agronomy Journal</i> , 2014, 106, 243-251.	1.8	16

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37	Water use of sorghum (&i>&i>Sorghum bicolor&i>&i> L. Moench) in response to varying planting dates evaluated under rainfed conditions. <i>Water S A</i> , 2017, 43, 91.	0.4	16
38	Spatial clustering of food insecurity and its association with depression: a geospatial analysis of nationally representative South African data, 2008&acaron2015. <i>Scientific Reports</i> , 2020, 10, 13771.	3.3	16
39	African Leafy Vegetables for Improved Human Nutrition and Food System Resilience in Southern Africa: A Scoping Review. <i>Sustainability</i> , 2021, 13, 2896.	3.2	16
40	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
41	Perspective on crop modelling in the management of intercropping systems. <i>Archives of Agronomy and Soil Science</i> , 2015, , 1-19.	2.6	14
42	Improving the Dietary Vitamin A Content of Rural Communities in South Africa by Replacing Non-Biofortified White Maize and Sweet Potato with Biofortified Maize and Sweet Potato in Traditional Dishes. <i>Nutrients</i> , 2019, 11, 1198.	4.1	14
43	Calibration and testing of AquaCrop for selected sorghum genotypes. <i>Water S A</i> , 2017, 43, 209.	0.4	13
44	Sorghum radiation use efficiency and biomass partitioning in intercrop systems. <i>South African Journal of Botany</i> , 2018, 118, 76-84.	2.5	13
45	Water Productivity of Selected Sorghum Genotypes Under Rainfed Conditions. <i>International Journal of Plant Production</i> , 2020, 14, 259-272.	2.2	13
46	DROUGHT TOLERANCE OF SELECTED SOUTH AFRICAN TARO (COLOCASIA ESCULENTAL. SCHOTT) LANDRACES. <i>Experimental Agriculture</i> , 2015, 51, 451-466.	0.9	12
47	Water use characteristics of a bambara groundnut (&i>&i>Vigna subterranea&i>&i> L. Verdc) landrace during seedling establishment. <i>Water S A</i> , 2015, 41, 472.	0.4	12
48	Transitional Pathways towards Achieving a Circular Economy in the Water, Energy, and Food Sectors. <i>Sustainability</i> , 2021, 13, 9978.	3.2	12
49	Effect of indigenous storage method on performance of taro [ <i>Colocasia esculenta</i> (L.) Schott] under field conditions in a warm subtropical area. <i>South African Journal of Plant and Soil</i> , 2007, 24, 214-219.	1.1	11
50	Varietal discrimination of common dry bean ( <i>Phaseolus vulgaris</i> L.) grown under different watering regimes using multitemporal hyperspectral data. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 096050.	1.3	11
51	Consumer Perceptions and Acceptability of Traditional Dishes Prepared with Provitamin A-Biofortified Maize and Sweet Potato. <i>Nutrients</i> , 2019, 11, 1577.	4.1	11
52	Seed quality characteristics of a bambara groundnut (&i>&i>Vigna subterranea&i>&i>L.) landrace differing in seed coat colour. <i>South African Journal of Plant and Soil</i> , 2014, 31, 219-226.	1.1	10
53	Influence of agro-ecological production areas on antioxidant activity, reducing sugar content, and selected phytonutrients of orange-fleshed sweet potato cultivars. <i>Food Science and Technology</i> , 2015, 35, 32-37.	1.7	10
54	Seed quality and water use characteristics of maize landraces compared with selected commercial hybrids. <i>Chilean Journal of Agricultural Research</i> , 2015, 75, 13-20.	1.1	10

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55	A simple model to evaluate integrated vegetable production for food security in KwaZulu-Natal, South Africa. <i>Food Research International</i> , 2015, 76, 946-952.	6.2	10
56	Assessment of the Nutritional Status of Four Selected Rural Communities in KwaZulu-Natal, South Africa. <i>Nutrients</i> , 2021, 13, 2920.	4.1	8
57	Water status influences common events of soluble carbohydrate accumulation during soybean seed development and germination. <i>Canadian Journal of Botany</i> , 2002, 80, 262-270.	1.1	7
58	Responses of selected bottle gourd [ <i>Lagenaria siceraria</i> (Molina Standly)] landraces to water stress. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2015, 65, 350-356.	0.6	7
59	Adaptation and Productivity of Selected Grain Legumes in Contrasting Environments of Kwazulu-Natal, South Africa. <i>International Journal of Plant Production</i> , 2018, 12, 169-180.	2.2	7
60	Variance components and heritability of yield and yield-related traits in tepary bean ( <i>Phaseolus</i> )	1.1	7
61	Nitrogen Fixation and Nutritional Yield of Cowpea-Amaranth Intercrop. <i>Agronomy</i> , 2020, 10, 565.	3.0	7
62	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
63	Sweet potato response to low-input agriculture and varying environments of KwaZulu-Natal, South Africa: implications for food security strategies. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2015, 65, 329-340.	0.6	6
64	Determination of optimum ethylmethanesulfonate conditions for chemical mutagenesis of selected vernonia ( <i>Centropalus pauciflorus</i> ) accessions. <i>South African Journal of Plant and Soil</i> , 2017, 34, 311-317.	1.1	6
65	Productivity of Selected African Leafy Vegetables under Varying Water Regimes. <i>Agronomy</i> , 2020, 10, 916.	3.0	6
66	Seed oil content and fatty acid composition response to ethyl methanesulphonate mutagenesis in vernonia. <i>South African Journal of Plant and Soil</i> , 2019, 36, 375-380.	1.1	5
67	Visioning a Food System for an Equitable Transition towards Sustainable Diets – A South African Perspective. <i>Sustainability</i> , 2022, 14, 3280.	3.2	5
68	DIFFERENTIAL LEAKAGE OF SUBSTANCES FROM TWO SOYBEAN GENOTYPES DURING IMBIBITION IS INFLUENCED BY SEED COAT PORE CHARACTERISTICS. <i>Acta Horticulturae</i> , 1999, , 161-176.	0.2	4
69	Germination Characteristics of SC701 Maize Hybrid According to Size and Shape at Different Temperature Regimes. <i>Plant Production Science</i> , 2015, 18, 514-521.	2.0	4
70	Sorghum best practice management recommendations based on AquaCrop modeling scenario analysis in various agro-ecologies of KwaZulu Natal, South Africa. <i>Physics and Chemistry of the Earth</i> , 2020, 117, 102866.	2.9	4
71	Assessing Suitability of Sorghum to Alleviate Sub-Saharan Nutritional Deficiencies through the Nutritional Water Productivity Index in Semi-Arid Regions. <i>Foods</i> , 2021, 10, 385.	4.3	4
72	Maize grain soluble sugar and protein contents in response to simulated hail damage. <i>South African Journal of Plant and Soil</i> , 2018, 35, 377-383.	1.1	3

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73	Agro-morphological variation among two selected wheat varieties after ethylmethanesulphonate mutagenesis. <i>Research on Crops</i> , 2015, 16, 27.	0.1	2
74	Weeding Frequency Effects on Growth and Yield of Dry Bean Intercropped with Sweet Sorghum and Cowpea under a Dryland Area. <i>Sustainability</i> , 2021, 13, 12328.	3.2	2
75	Water potential of cherry tomato ( <i>Lycopersicon esculentum</i> Mill.) placenta and seed germination in response to desiccation during fruit development. <i>Seed Science Research</i> , 2004, 14, 249-257.	1.7	1
76	Effect of soil fertility and maturity stages at harvest on maize yield under rain-fed conditions. <i>Archives of Agronomy and Soil Science</i> , 2018, 64, 668-681.	2.6	1
77	Options for improving water productivity: A case study of bambara groundnut and groundnut. <i>Physics and Chemistry of the Earth</i> , 2020, 115, 102806.	2.9	1
78	Sweet Sorghum ( <i>Sorghum bicolor</i> ) Performance in a Legume Intercropping System under Weed Interference. <i>Agronomy</i> , 2021, 11, 877.	3.0	1
79	Participatory Rural Appraisal to Solve Irrigation Issues. <i>Sustainable Agriculture Reviews</i> , 2012, , 157-176.	1.1	1
80	WEF nexus narratives. , 2022, , 321-326.		1
81	Agro-morphological diversity of Bambara groundnut lines evaluated under field conditions. <i>South African Journal of Plant and Soil</i> , 0, , 1-11.	1.1	1
82	Yield and water use gaps in cereal multicrop systems in sub-Saharan Africa under climate change. , 2021, , 313-329.		0
83	Community disaster exposure and first onset of depression: A panel analysis of nationally representative South African data, 2008â€“2017. , 2022, 1, e0000024.		0
84	Influence of genotype and environment on grain yield among cowpea ( <i>Vigna unguiculat</i> a (L.)) Tj ETQq0 0 0 rgBT /Overlock 10 T Plant Science, 2022, 72, 709-719.	0.6	0
85	The waterâ€“energyâ€“food nexus. , 2022, , 1-13.		0