Muhammad Waqar Akram

List of Publications by Year
in descending order

67	2,316	186265	233421
papers	citations	28	45
		h-index	g-index

69	69	69	2242
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A numerical approach to elucidate the combustion and emission characteristics of n-dodecane under hydrogen enrichment. Energy Conversion and Management, 2022, 255, 115294.	9.2	12
2	Failures of Photovoltaic modules and their Detection: A Review. Applied Energy, 2022, 313, 118822.	10.1	28
3	Effect of seedling age on growth and yield of fine rice cultivars under alternate wetting and drying system. Journal of Plant Nutrition, 2021, 44, 1-15.	1.9	15
4	AgMIP Regional Integrated Assessments: High-level Findings, Methods, Tools, and Studies (2012â€"2017). , 2021, , 123-142.		1
5	Development of Climate Change Adaptation Strategies for Cottonâ€"Wheat Cropping System of Punjab Pakistan. , 2021, , 277-327.		4
6	Investigation of ergonomic working conditions of sewing and cuttingmachine operators of clothing industry. Industria Textila, 2021, 72, 309-314.	0.8	1
7	Foliar Spray of Natural and Synthetic Plant Growth Promoters Accelerates Growth and Yield of Cotton by Modulating Photosynthetic Pigments. International Journal of Plant Production, 2021, 15, 615-624.	2.2	2
8	Facial expression recognition with convolutional neural networks via a new face cropping and rotation strategy. Visual Computer, 2020, 36, 391-404.	3.5	102
9	Using GIS tools to detect the land use/land cover changes during forty years in Lodhran District of Pakistan. Environmental Science and Pollution Research, 2020, 27, 39676-39692.	5.3	114
10	Investigating tension in overhead high voltage power transmission line using finite element method. International Journal of Electrical Power and Energy Systems, 2020, 114, 105418.	5.5	9
11	Climate change impacts and adaptations for fine, coarse, and hybrid rice using CERES-Rice. Environmental Science and Pollution Research, 2020, 27, 9454-9464.	5.3	10
12	Building integrated solar concentrating systems: A review. Applied Energy, 2020, 260, 114288.	10.1	76
13	Study of land cover/land use changes using RS and GIS: a case study of Multan district, Pakistan. Environmental Monitoring and Assessment, 2020, 192, 2.	2.7	58
14	Optimizing Management Options through Empirical Modeling to Improve Pearl Millet Production for Semi-Arid and Arid Regions of Punjab, Pakistan. Sustainability, 2020, 12, 7715.	3.2	4
15	Climate change impacts and adaptations for wheat employing multiple climate and crop modelsin Pakistan. Climatic Change, 2020, 163, 253-266.	3.6	10
16	Sustainable land use options for optimum resources use in maize based cropping system on uplands of Western Thailand. Agroforestry Systems, 2020, 94, 2289-2300.	2.0	4
17	Predicting Kernel Growth of Maize under Controlled Water and Nitrogen Applications. International Journal of Plant Production, 2020, 14, 609-620.	2.2	17
18	An Adaptive Anti-Noise Neural Network for Bearing Fault Diagnosis Under Noise and Varying Load Conditions. IEEE Access, 2020, 8, 74793-74807.	4.2	44

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19	Defect Detection and Degradation Analysis in Photovoltaic Modules using Thermography, Spectroscopy, and Current–Voltage Measurements, and Quantitative Assessment of Their Impact. Energy Technology, 2020, 8, 2000100.	3.8	1
20	In situ investigation of acute exposure of graphene oxide on activated sludge: Biofilm characteristics, microbial activity and cytotoxicity. Ecotoxicology and Environmental Safety, 2020, 199, 110639.	6.0	11
21	Coagulation- and Adsorption-Based Environmental Impact Assessment and Textile Effluent Treatment. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	15
22	Automatic detection of photovoltaic module defects in infrared images with isolated and develop-model transfer deep learning. Solar Energy, 2020, 198, 175-186.	6.1	113
23	Carbon sequestration potential and soil characteristics of various land use systems in arid region. Journal of Environmental Management, 2020, 264, 110254.	7.8	20
24	Study of manufacturing and hotspot formation in cut cell and full cell PV modules. Solar Energy, 2020, 203, 247-259.	6.1	33
25	Assessing the climate change impacts and adaptation strategies for rice production in Punjab, Pakistan. Environmental Science and Pollution Research, 2020, 27, 22568-22578.	5.3	18
26	Photovoltaic cell defect classification using convolutional neural network and support vector machine. IET Renewable Power Generation, 2020, 14, 2693-2702.	3.1	25
27	Support vector machine based prediction of photovoltaic module and power station parameters. International Journal of Green Energy, 2020, 17, 219-232.	3.8	7
28	Optimizing irrigation and nitrogen requirements for maize through empirical modeling in semi-arid environment. Environmental Science and Pollution Research, 2019, 26, 1227-1237.	5.3	39
29	Simultaneous effects of biochar and nitrogen fertilization on nitrous oxide and methane emissions from paddy rice. Journal of Environmental Management, 2019, 248, 109242.	7.8	23
30	CNN based automatic detection of photovoltaic cell defects in electroluminescence images. Energy, 2019, 189, 116319.	8.8	145
31	Improved outdoor thermography and processing of infrared images for defect detection in PV modules. Solar Energy, 2019, 190, 549-560.	6.1	47
32	Fetch Effect on Flux-Variance Estimations of Sensible and Latent Heat Fluxes of Camellia Sinensis. Atmosphere, 2019, 10, 299.	2.3	3
33	Novel multi-convolutional neural network fusion approach for smile recognition. Multimedia Tools and Applications, 2019, 78, 15887-15907.	3.9	2
34	Assessing climate change impacts on pearl millet under arid and semi-arid environments using CSM-CERES-Millet model. Environmental Science and Pollution Research, 2019, 26, 6745-6757.	5.3	36
35	Thermo-mechanical behavior assessment of smart wire connected and busbar PV modules during production, transportation, and subsequent field loading stages. Energy, 2019, 168, 931-945.	8.8	33
36	Potential impacts of climate change and adaptation strategies for sunflower in Pakistan. Environmental Science and Pollution Research, 2018, 25, 13719-13730.	5.3	23

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37	Wheat Responses to Climate Change and Its Adaptations: A Focus on Arid and Semi-arid Environment. International Journal of Environmental Research, 2018, 12, 117-126.	2.3	32
38	Regional climate assessment of precipitation and temperature in Southern Punjab (Pakistan) using SimCLIM climate model for different temporal scales. Theoretical and Applied Climatology, 2018, 131, 121-131.	2.8	57
39	Application of bio-inspired algorithms in maximum power point tracking for PV systems under partial shading conditions â€" A review. Renewable and Sustainable Energy Reviews, 2018, 81, 840-873.	16.4	122
40	Radiation efficiency and nitrogen fertilizer impacts on sunflower crop in contrasting environments of Punjab, Pakistan. Environmental Science and Pollution Research, 2018, 25, 1822-1836.	5.3	75
41	Evaluation of Timing and Rates for Nitrogen Application for Optimizing Maize Growth and Development and Maximizing Yield. Agronomy Journal, 2018, 110, 565-571.	1.8	14
42	Yield Forecasting of Spring Maize Using Remote Sensing and Crop Modeling in Faisalabad-Punjab Pakistan. Journal of the Indian Society of Remote Sensing, 2018, 46, 1701-1711.	2.4	48
43	Solar-Powered Drip Irrigation System. Green Energy and Technology, 2018, , 545-558.	0.6	0
44	Performance of four crop model for simulations of wheat phenology, leaf growth, biomass and yield across planting dates. PLoS ONE, 2018, 13, e0197546.	2.5	48
45	Nitrogen and plant population change radiation capture and utilization capacity of sunflower in semi-arid environment. Environmental Science and Pollution Research, 2017, 24, 17511-17525.	5.3	29
46	Research and current status of the solar photovoltaic water pumping system â€" A review. Renewable and Sustainable Energy Reviews, 2017, 79, 440-458.	16.4	102
47	Forecasting wheat yield from weather data and MODIS NDVI using Random Forests for Punjab province, Pakistan. International Journal of Remote Sensing, 2017, 38, 4831-4854.	2.9	53
48	Inducing drought tolerance in wheat by applying natural and synthetic plant growth promoters. Journal of Plant Nutrition and Soil Science, 2017, 180, 739-747.	1.9	4
49	Response of sunflower hybrids to nitrogen application grown under different agro-environments. Journal of Plant Nutrition, 2017, 40, 82-92.	1.9	36
50	Quantification of Climate Warming and Crop Management Impacts on Cotton Phenology. Plants, 2017, 6, 7.	3.5	69
51	Adapting DSSAT Model for Simulation of Cotton Yield for Nitrogen Levels and Planting Dates. Agronomy Journal, 2017, 109, 2639-2648.	1.8	13
52	AM1 is a potential ABA substitute for drought tolerance as revealed by physiological and ultra-structural responses of oilseed rape. Acta Physiologiae Plantarum, 2016, 38, 1.	2.1	16
53	Modelling resource competition and its mitigation at the crop-soil-hedge interface using WaNuLCAS. Agroforestry Systems, 2016, 90, 1025-1044.	2.0	13
54	Application of CSM-CERES-Maize model in optimizing irrigated conditions. Outlook on Agriculture, 2016, 45, 173-184.	3.4	38

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55	The effect of nutrients shortage on plant's efficiency to capture solar radiations under semi-arid environments. Environmental Science and Pollution Research, 2016, 23, 20497-20505.	5.3	13
56	Water and Nitrogen Productivity of Maize under Semiarid Environments. Crop Science, 2015, 55, 877-888.	1.8	24
57	Integrated Assessments of the Impact of Climate Change on Agriculture: An Overview of AgMIP Regional Research in South Asia. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2015, , 201-217.	0.4	3
58	Impact of Climate Change on the Rice–Wheat Cropping System of Pakistan. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2015, , 219-258.	0.4	84
59	Normalized Difference Vegetation Index as a Tool for Wheat Yield Estimation: A Case Study from Faisalabad, Pakistan. Scientific World Journal, The, 2014, 2014, 1-8.	2.1	68
60	Influence of Nursery Management and Seedling Age on Growth and Economic Performance of Fine Rice. Journal of Plant Nutrition, 2014, 37, 1287-1303.	1.9	14
61	Changes in precipitation extremes over arid to semiarid and subhumid Punjab, Pakistan. Theoretical and Applied Climatology, 2014, 116, 671-680.	2.8	66
62	Application of the CSM-CERES-Rice model for evaluation of plant density and irrigation management of transplanted rice for an irrigated semiarid environment. Irrigation Science, 2013, 31, 491-506.	2.8	46
63	The Agricultural Model Intercomparison and Improvement Project (AgMIP): Integrated Regional Assessment Projects. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2012, , 263-280.	0.4	6
64	The response of genetically distinct bread wheat genotypes to salinity stress. Plant Breeding, 2012, 131, 707-715.	1.9	10
65	Application of the CSM-CERES-Rice model for evaluation of plant density and nitrogen management of fine transplanted rice for an irrigated semiarid environment. Precision Agriculture, 2012, 13, 200-218.	6.0	66
66	Salt Tolerance in Okra: Ion Relations and Gas Exchange Characteristics. Journal of Plant Nutrition, 2003, 26, 63-79.	1.9	25
67	Design optimization, fabrication, and performance evaluation of solar parabolic trough collector for domestic applications. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-20.	2.3	10