

Muhammad Waqar Akram

List of Publications by Year in descending order

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67
papers

2,316
citations

186265

28
h-index

233421

45
g-index

69
all docs

69
docs citations

69
times ranked

2242
citing authors

#	ARTICLE	IF	CITATIONS
1	CNN based automatic detection of photovoltaic cell defects in electroluminescence images. Energy, 2019, 189, 116319.	8.8	145
2	Application of bio-inspired algorithms in maximum power point tracking for PV systems under partial shading conditions – A review. Renewable and Sustainable Energy Reviews, 2018, 81, 840-873.	16.4	122
3	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
4	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
5	Research and current status of the solar photovoltaic water pumping system – A review. Renewable and Sustainable Energy Reviews, 2017, 79, 440-458.	16.4	102
6	Facial expression recognition with convolutional neural networks via a new face cropping and rotation strategy. Visual Computer, 2020, 36, 391-404.	3.5	102
7	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
8	Building integrated solar concentrating systems: A review. Applied Energy, 2020, 260, 114288.	10.1	76
9	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
10	Quantification of Climate Warming and Crop Management Impacts on Cotton Phenology. Plants, 2017, 6, 7.	3.5	69
11	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
12	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
13	Changes in precipitation extremes over arid to semiarid and subhumid Punjab, Pakistan. Theoretical and Applied Climatology, 2014, 116, 671-680.	2.8	66
14	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
15	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
16	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
17	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
18	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

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19	Improved outdoor thermography and processing of infrared images for defect detection in PV modules. <i>Solar Energy</i> , 2019, 190, 549-560.	6.1	47
20	Application of the CSM-CERES-Rice model for evaluation of plant density and irrigation management of transplanted rice for an irrigated semiarid environment. <i>Irrigation Science</i> , 2013, 31, 491-506.	2.8	46
21	An Adaptive Anti-Noise Neural Network for Bearing Fault Diagnosis Under Noise and Varying Load Conditions. <i>IEEE Access</i> , 2020, 8, 74793-74807.	4.2	44
22	Optimizing irrigation and nitrogen requirements for maize through empirical modeling in semi-arid environment. <i>Environmental Science and Pollution Research</i> , 2019, 26, 1227-1237.	5.3	39
23	Application of CSM-CERES-Maize model in optimizing irrigated conditions. <i>Outlook on Agriculture</i> , 2016, 45, 173-184.	3.4	38
24	Response of sunflower hybrids to nitrogen application grown under different agro-environments. <i>Journal of Plant Nutrition</i> , 2017, 40, 82-92.	1.9	36
25	Assessing climate change impacts on pearl millet under arid and semi-arid environments using CSM-CERES-Millet model. <i>Environmental Science and Pollution Research</i> , 2019, 26, 6745-6757.	5.3	36
26	Thermo-mechanical behavior assessment of smart wire connected and busbarPV modules during production, transportation, and subsequent field loading stages. <i>Energy</i> , 2019, 168, 931-945.	8.8	33
27	Study of manufacturing and hotspot formation in cut cell and full cell PV modules. <i>Solar Energy</i> , 2020, 203, 247-259.	6.1	33
28	Wheat Responses to Climate Change and Its Adaptations: A Focus on Arid and Semi-arid Environment. <i>International Journal of Environmental Research</i> , 2018, 12, 117-126.	2.3	32
29	Nitrogen and plant population change radiation capture and utilization capacity of sunflower in semi-arid environment. <i>Environmental Science and Pollution Research</i> , 2017, 24, 17511-17525.	5.3	29
30	Failures of Photovoltaic modules and their Detection: A Review. <i>Applied Energy</i> , 2022, 313, 118822.	10.1	28
31	Salt Tolerance in Okra: Ion Relations and Gas Exchange Characteristics. <i>Journal of Plant Nutrition</i> , 2003, 26, 63-79.	1.9	25
32	Photovoltaic cell defect classification using convolutional neural network and support vector machine. <i>IET Renewable Power Generation</i> , 2020, 14, 2693-2702.	3.1	25
33	Water and Nitrogen Productivity of Maize under Semiarid Environments. <i>Crop Science</i> , 2015, 55, 877-888.	1.8	24
34	Potential impacts of climate change and adaptation strategies for sunflower in Pakistan. <i>Environmental Science and Pollution Research</i> , 2018, 25, 13719-13730.	5.3	23
35	Simultaneous effects of biochar and nitrogen fertilization on nitrous oxide and methane emissions from paddy rice. <i>Journal of Environmental Management</i> , 2019, 248, 109242.	7.8	23
36	Carbon sequestration potential and soil characteristics of various land use systems in arid region. <i>Journal of Environmental Management</i> , 2020, 264, 110254.	7.8	20

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37	Assessing the climate change impacts and adaptation strategies for rice production in Punjab, Pakistan. <i>Environmental Science and Pollution Research</i> , 2020, 27, 22568-22578.	5.3	18
38	Predicting Kernel Growth of Maize under Controlled Water and Nitrogen Applications. <i>International Journal of Plant Production</i> , 2020, 14, 609-620.	2.2	17
39	AM1 is a potential ABA substitute for drought tolerance as revealed by physiological and ultra-structural responses of oilseed rape. <i>Acta Physiologiae Plantarum</i> , 2016, 38, 1.	2.1	16
40	Coagulation- and Adsorption-Based Environmental Impact Assessment and Textile Effluent Treatment. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	15
41	Effect of seedling age on growth and yield of fine rice cultivars under alternate wetting and drying system. <i>Journal of Plant Nutrition</i> , 2021, 44, 1-15.	1.9	15
42	Influence of Nursery Management and Seedling Age on Growth and Economic Performance of Fine Rice. <i>Journal of Plant Nutrition</i> , 2014, 37, 1287-1303.	1.9	14
43	Evaluation of Timing and Rates for Nitrogen Application for Optimizing Maize Growth and Development and Maximizing Yield. <i>Agronomy Journal</i> , 2018, 110, 565-571.	1.8	14
44	Modelling resource competition and its mitigation at the crop-soil-hedge interface using WaNuLCAS. <i>Agroforestry Systems</i> , 2016, 90, 1025-1044.	2.0	13
45	The effect of nutrients shortage on plant's efficiency to capture solar radiations under semi-arid environments. <i>Environmental Science and Pollution Research</i> , 2016, 23, 20497-20505.	5.3	13
46	Adapting DSSAT Model for Simulation of Cotton Yield for Nitrogen Levels and Planting Dates. <i>Agronomy Journal</i> , 2017, 109, 2639-2648.	1.8	13
47	A numerical approach to elucidate the combustion and emission characteristics of n-dodecane under hydrogen enrichment. <i>Energy Conversion and Management</i> , 2022, 255, 115294.	9.2	12
48	In situ investigation of acute exposure of graphene oxide on activated sludge: Biofilm characteristics, microbial activity and cytotoxicity. <i>Ecotoxicology and Environmental Safety</i> , 2020, 199, 110639.	6.0	11
49	The response of genetically distinct bread wheat genotypes to salinity stress. <i>Plant Breeding</i> , 2012, 131, 707-715.	1.9	10
50	Climate change impacts and adaptations for fine, coarse, and hybrid rice using CERES-Rice. <i>Environmental Science and Pollution Research</i> , 2020, 27, 9454-9464.	5.3	10
51	Climate change impacts and adaptations for wheat employing multiple climate and crop models in Pakistan. <i>Climatic Change</i> , 2020, 163, 253-266.	3.6	10
52	Design optimization, fabrication, and performance evaluation of solar parabolic trough collector for domestic applications. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-20.	2.3	10
53	Investigating tension in overhead high voltage power transmission line using finite element method. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 114, 105418.	5.5	9
54	Support vector machine based prediction of photovoltaic module and power station parameters. <i>International Journal of Green Energy</i> , 2020, 17, 219-232.	3.8	7

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55	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
56	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
57	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
58	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
59	Development of Climate Change Adaptation Strategies for Cotton-Wheat Cropping System of Punjab Pakistan. , 2021, , 277-327.		4
60	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
61	Fetch Effect on Flux-Variance Estimations of Sensible and Latent Heat Fluxes of Camellia Sinensis. Atmosphere, 2019, 10, 299.	2.3	3
62	Novel multi-convolutional neural network fusion approach for smile recognition. Multimedia Tools and Applications, 2019, 78, 15887-15907.	3.9	2
63	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
64	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
65	AgMIP Regional Integrated Assessments: High-level Findings, Methods, Tools, and Studies (2012-2017). , 2021, , 123-142.		1
66	Investigation of ergonomic working conditions of sewing and cutting machine operators of clothing industry. Industria Textila, 2021, 72, 309-314.	0.8	1
67	Solar-Powered Drip Irrigation System. Green Energy and Technology, 2018, , 545-558.	0.6	0