

Muhammad Tayyab

List of Publications by Year in descending order

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85
papers

2,596
citations

186265
28
h-index

214800
47
g-index

85
all docs

85
docs citations

85
times ranked

2015
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous hydrogen production with the selective oxidation of benzyl alcohol to benzaldehyde by a noble-metal-free photocatalyst VC/CdS nanowires. Chinese Journal of Catalysis, 2022, 43, 1165-1175.	14.0	190
2	Single-Atom Pt Loaded Zinc Vacancies ZnO@ZnS Induced Type-II Electron Transport for Efficiency Photocatalytic H ₂ Evolution. Solar Rrl, 2021, 5, 2100536.	5.8	153
3	Direct and efficient reduction of perfluorooctanoic acid using bimetallic catalyst supported on carbon. Journal of Hazardous Materials, 2021, 412, 125224.	12.4	138
4	A Survey on Handover Management: From LTE to NR. IEEE Access, 2019, 7, 118907-118930.	4.2	131
5	Spatiotemporal analysis of precipitation variability in annual, seasonal and extreme values over upper Indus River basin. Atmospheric Research, 2018, 213, 346-360.	4.1	113
6	Optimal production delivery policies for supplier and manufacturer in a constrained closed-loop supply chain for returnable transport packaging through metaheuristic approach. Computers and Industrial Engineering, 2019, 135, 987-1003.	6.3	97
7	Optimal batch quantity in a cleaner multi-stage lean production system with random defective rate. Journal of Cleaner Production, 2016, 139, 922-934.	9.3	83
8	Autonomation policy to control work-in-process inventory in a smart production system. International Journal of Production Research, 2021, 59, 1258-1280.	7.5	83
9	A sustainable development framework for a cleaner multi-item multi-stage textile production system with a process improvement initiative. Journal of Cleaner Production, 2020, 246, 119055.	9.3	76
10	Insect-fungal-interactions: A detailed review on entomopathogenic fungi pathogenicity to combat insect pests. Microbial Pathogenesis, 2021, 159, 105122.	2.9	74
11	An adaptive dynamic short-term wind speed forecasting model using secondary decomposition and an improved regularized extreme learning machine. Energy, 2018, 165, 939-957.	8.8	68
12	Effect of soft template variation on the synthesis, physical, and electrochemical properties of Mn ₃ O ₄ nanomaterial. Inorganic and Nano-Metal Chemistry, 2021, 51, 359-365.	1.6	68
13	Large-scale disaster waste management under uncertain environment. Journal of Cleaner Production, 2019, 212, 200-222.	9.3	64
14	Silicon-mediated plant defense against pathogens and insect pests. Pesticide Biochemistry and Physiology, 2020, 168, 104641.	3.6	62
15	Soil Sickness in Aged Tea Plantation Is Associated With a Shift in Microbial Communities as a Result of Plant Polyphenol Accumulation in the Tea Gardens. Frontiers in Plant Science, 2020, 11, 601.	3.6	54
16	Plant microRNAs: Front line players against invading pathogens. Microbial Pathogenesis, 2018, 118, 9-17.	2.9	48
17	Long-Term Monoculture Negatively Regulates Fungal Community Composition and Abundance of Tea Orchards. Agronomy, 2019, 9, 466.	3.0	43
18	GIS-Based Urban Flood Resilience Assessment Using Urban Flood Resilience Model: A Case Study of Peshawar City, Khyber Pakhtunkhwa, Pakistan. Remote Sensing, 2021, 13, 1864.	4.0	43

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19	Management of animal fat-based biodiesel supply chain under the paradigm of sustainability. <i>Energy Conversion and Management</i> , 2020, 225, 113345.	9.2	40
20	GIS-Based Multi-Criteria Approach for Flood Vulnerability Assessment and Mapping in District Shangla: Khyber Pakhtunkhwa, Pakistan. <i>Sustainability</i> , 2021, 13, 3126.	3.2	38
21	Short-Term Effects of Different Organic Amendments on Soil Fungal Composition. <i>Sustainability</i> , 2019, 11, 198.	3.2	36
22	Bacteria with Different Assemblages in the Soil Profile Drive the Diverse Nutrient Cycles in the Sugarcane Straw Retention Ecosystem. <i>Diversity</i> , 2019, 11, 194.	1.7	36
23	Imperfect Multi-Stage Lean Manufacturing System with Rework under Fuzzy Demand. <i>Mathematics</i> , 2019, 7, 13.	2.2	36
24	Management of Tobacco Mosaic Virus through Natural Metabolites. <i>Records of Natural Products</i> , 2018, 12, 403-415.	1.3	36
25	Effect of Sugarcane Straw and Goat Manure on Soil Nutrient Transformation and Bacterial Communities. <i>Sustainability</i> , 2018, 10, 2361.	3.2	35
26	Sustainable Inventory Management for Environmental Impact through Partial Backordering and Multi-Trade-Credit-Period. <i>Sustainability</i> , 2018, 10, 4761.	3.2	33
27	Liming Positively Modulates Microbial Community Composition and Function of Sugarcane Fields. <i>Agronomy</i> , 2019, 9, 808.	3.0	30
28	Rainfall-runoff modeling at Jinsha River basin by integrated neural network with discrete wavelet transform. <i>Meteorology and Atmospheric Physics</i> , 2019, 131, 115-125.	2.0	30
29	Polychronicity at work: Work engagement as a mediator of the relationships between job outcomes. <i>Journal of Hospitality and Tourism Management</i> , 2020, 45, 470-478.	6.6	30
30	Response of Soil Fungal Diversity and Community Composition to Varying Levels of Bamboo Biochar in Red Soils. <i>Microorganisms</i> , 2021, 9, 1385.	3.6	29
31	Sugarcane monoculture drives microbial community composition, activity and abundance of agricultural-related microorganisms. <i>Environmental Science and Pollution Research</i> , 2021, 28, 48080-48096.	5.3	28
32	A linear bi-level multi-objective program for optimal allocation of water resources. <i>PLoS ONE</i> , 2018, 13, e0192294.	2.5	28
33	Screening of EMS-Induced Drought-Tolerant Sugarcane Mutants Employing Physiological, Molecular and Enzymatic Approaches. <i>Agronomy</i> , 2018, 8, 226.	3.0	25
34	Continuous Sugarcane Planting Negatively Impacts Soil Microbial Community Structure, Soil Fertility, and Sugarcane Agronomic Parameters. <i>Microorganisms</i> , 2021, 9, 2008.	3.6	25
35	Evaluation of the Impact of Implementing the Prone Jackknife Position for the Perineal Phase of Abdominoperineal Excision of the Rectum. <i>Diseases of the Colon and Rectum</i> , 2012, 55, 316-321.	1.3	24
36	Promising role of silicon to enhance drought resistance in wheat. <i>Communications in Soil Science and Plant Analysis</i> , 2018, 49, 2932-2941.	1.4	23

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37	Divergent consequences of different biochar amendments on carbon dioxide (CO ₂) and nitrous oxide (N ₂ O) emissions from the red soil. <i>Science of the Total Environment</i> , 2021, 754, 141935.	8.0	23
38	Application of Integrated Artificial Neural Networks Based on Decomposition Methods to Predict Streamflow at Upper Indus Basin, Pakistan. <i>Atmosphere</i> , 2018, 9, 494.	2.3	22
39	Sustainable Lot Size in a Multistage Lean-Green Manufacturing Process under Uncertainty. <i>Mathematics</i> , 2019, 7, 20.	2.2	21
40	Effect of Cu concentration and dopant site on the band gap of MoS ₂ : A DFT study. <i>Computational Condensed Matter</i> , 2020, 24, e00494.	2.1	21
41	Straw retention efficiently improves fungal communities and functions in the fallow ecosystem. <i>BMC Microbiology</i> , 2021, 21, 52.	3.3	20
42	Correlation of rectal tumor volumes with oncological outcomes for low rectal cancers: does tumor size matter?. <i>Surgery Today</i> , 2015, 45, 826-833.	1.5	19
43	Protein Phosphatase (PP2C9) Induces Protein Expression Differentially to Mediate Nitrogen Utilization Efficiency in Rice under Nitrogen-Deficient Condition. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2827.	4.1	18
44	Product Channeling in an O2O Supply Chain Management as Power Transmission in Electric Power Distribution Systems. <i>Mathematics</i> , 2019, 7, 4.	2.2	17
45	Restoration of Long-Term Monoculture Degraded Tea Orchard by Green and Goat Manures Applications System. <i>Sustainability</i> , 2019, 11, 1011.	3.2	16
46	Depth-dependent influence of biochar application on the abundance and community structure of diazotrophic under sugarcane growth. <i>PLoS ONE</i> , 2021, 16, e0253970.	2.5	16
47	Modeling Water Quality Parameters Using Landsat Multispectral Images: A Case Study of Erlong Lake, Northeast China. <i>Remote Sensing</i> , 2021, 13, 1603.	4.0	15
48	Integrating Artificial Neural Networks into the VIC Model for Rainfall-Runoff Modeling. <i>Water (Switzerland)</i> , 2016, 8, 407.	2.7	14
49	The Critical Role of Small RNAs in Regulating Plant Innate Immunity. <i>Biomolecules</i> , 2021, 11, 184.	4.0	14
50	Band-gap tuning of graphene by Mg doping and adsorption of Br and Be on impurity: A DFT study. <i>Computational Condensed Matter</i> , 2020, 23, e00469.	2.1	13
51	Influence of Intraspecific Competition Stress on Soil Fungal Diversity and Composition in Relation to Tree Growth and Soil Fertility in Sub-Tropical Soils under Chinese Fir Monoculture. <i>Sustainability</i> , 2021, 13, 10688.	3.2	13
52	Genome characterization of Sugarcane Yellow Leaf Virus with special reference to RNAi based molecular breeding. <i>Microbial Pathogenesis</i> , 2018, 120, 187-197.	2.9	11
53	WRF model for precipitation simulation and its application in real-time flood forecasting in the Jinshajiang River Basin, China. <i>Meteorology and Atmospheric Physics</i> , 2018, 130, 635-647.	2.0	11
54	Differential response of soil microbial and animal communities along the chronosequence of <i>Cunninghamia lanceolata</i> at different soil depth levels in subtropical forest ecosystem. <i>Journal of Advanced Research</i> , 2021, 38, 41-54.	9.5	11

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55	Natural forest chronosequence maintains better soil fertility indicators and assemblage of total belowground soil biota than Chinese fir monoculture in subtropical ecosystem. <i>Journal of Cleaner Production</i> , 2022, 334, 130228.	9.3	11
56	A Radio Frequency Sensor Array for Dielectric Constant Estimation of Multiphase Oil Flow in Pipelines. <i>IEEE Sensors Journal</i> , 2017, 17, 5900-5907.	4.7	10
57	Uplink Reference Signals for Energy-Efficient Handover. <i>IEEE Access</i> , 2020, 8, 163060-163076.	4.2	10
58	Effect of copper concentration and sulfur vacancies on electronic properties of MoS ₂ monolayer: a computational study. <i>Journal of Molecular Modeling</i> , 2021, 27, 213.	1.8	10
59	Sugarcane cultivar-dependent changes in assemblage of soil rhizosphere fungal communities in subtropical ecosystem. <i>Environmental Science and Pollution Research</i> , 2022, 29, 20795-20807.	5.3	10
60	The role of information and innovative technology for rehabilitation of children with Autism: A Systematic Literature Review. , 2017, , .		9
61	Application of Artificial Intelligence Method Coupled with Discrete Wavelet Transform Method. <i>Procedia Computer Science</i> , 2017, 107, 212-217.	2.0	8
62	A Simulation Study on LTE Handover and the Impact of Cell Size. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2019, , 398-408.	0.3	8
63	Identification of Shift in Sowing and Harvesting Dates of Rice Crop (<i>L. Oryza sativa</i>) through Remote Sensing Techniques: A Case Study of Larkana District. <i>Sustainability</i> , 2020, 12, 3586.	3.2	7
64	Uplink Reference Signals for Power-Efficient Handover in Cellular Networks With Mobile Relays. <i>IEEE Access</i> , 2021, 9, 24446-24461.	4.2	7
65	Identifying Half-Century Precipitation Trends in a Chinese Lake Basin. <i>Polish Journal of Environmental Studies</i> , 2019, 28, 1397-1412.	1.2	7
66	A computational study of MoS ₂ for band gap engineering by substitutional doping of TMN (T = transition metal (Cu), M = metalloid (B) and N = non-metal (C)). <i>Materials Research Express</i> , 2021, 8, 046301.	1.6	6
67	The Ventilation Efficiency of Urban Built Intensity and Ventilation Path Identification: A Case Study of Wuhan. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 11684.	2.6	6
68	A wearable RF sensor on fabric substrate for pulmonary edema monitoring. , 2017, , .		5
69	Kernel Clustering with a Differential Harmony Search Algorithm for Scheme Classification. <i>Algorithms</i> , 2017, 10, 14.	2.1	5
70	Streamflow Prediction by Applying Generalized Regression Network with Time Series Decomposition Method. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 2016, 4, 611.	0.8	5
71	Sugarcane cultivars manipulate rhizosphere bacterial communities' structure and composition of agriculturally important keystone taxa. <i>3 Biotech</i> , 2022, 12, 32.	2.2	5
72	Spatial Climatic Variability and Impact of El Niño Southern Oscillation on Extreme Precipitation of River Catchment. <i>Environmental Engineering Science</i> , 2020, 37, 346-364.	1.6	4

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73	Integrated Combination of the Multi Hydrological Models by Applying the Least Square Method. Research Journal of Applied Sciences, Engineering and Technology, 2015, 10, 107-111.	0.1	3
74	A low complexity RF based sensor array for lung disease detection using inkjet printing. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21586.	1.2	3
75	The Ventilation Path Assessment of Urban Street in Wuhan. Polish Journal of Environmental Studies, 2021, 30, 2877-2889.	1.2	2
76	Design, Synthesis, Crystal Structure, Fluorescence, Molecular Docking and DFT Studies of 3,6-Dinitro-N-octylcarbazole. Current Organic Chemistry, 2019, 23, 1681-1687.	1.6	2
77	Filtered mud improves sugarcane growth and modifies the functional abundance and structure of soil microbial populations. PeerJ, 2022, 10, e12753.	2.0	2
78	An integrated approach for energy efficient handover and key distribution protocol for secure NC-enabled small cells. Computer Networks, 2022, 206, 108806.	5.1	2
79	Low complexity RF sensor for multiphase oil flow estimation in pipelines. , 2017, , .		1
80	Adaptive Auditory Feedback. , 2018, , .		1
81	An Efficient Protocol for the Synthesis, Biological Screening and Molecular Docking Studies of 3,4-Dihydropyrimidine-2-one/thione Derivatives. Letters in Drug Design and Discovery, 2020, 17, 330-340.	0.7	1
82	Exchange Rate Forecasting Based on Combined Fuzzification Strategy and Advanced Optimization Algorithm. Processes, 2021, 9, 2204.	2.8	1
83	A tailored approach to abdominoperineal resection for rectal cancer: multicentre analysis of short-term outcomes and impact on oncological survival. Langenbeck's Archives of Surgery, 2021, 406, 813-819.	1.9	0
84	Power efficient mobile small cell placement for network-coded cooperation in UDNs. Computer Networks, 2021, , 108559.	5.1	0
85	Impact of spatial and temporal changes in climate on the Kunhar River Watershed, Pakistan. Arabian Journal of Geosciences, 2022, 15, .	1.3	0