

Muhammad Imran Khan

List of Publications by Year in descending order

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59
papers

2,498
citations

279798

23
h-index

206112

48
g-index

62
all docs

62
docs citations

62
times ranked

2899
citing authors

#	ARTICLE	IF	CITATIONS
1	Arsenic Uptake, Toxicity, Detoxification, and Speciation in Plants: Physiological, Biochemical, and Molecular Aspects. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 59.	2.6	541
2	Heavy metal and persistent organic compound contamination in soil from Wenling: An emerging e-waste recycling city in Taizhou area, China. <i>Journal of Hazardous Materials</i> , 2010, 173, 653-660.	12.4	297
3	Physiological and ultra-structural changes in <i>Brassica napus</i> seedlings induced by cadmium stress. <i>Biologia Plantarum</i> , 2014, 58, 131-138.	1.9	143
4	Degradation of phenanthrene and pyrene in spiked soils by single and combined plants cultivation. <i>Journal of Hazardous Materials</i> , 2010, 177, 384-389.	12.4	135
5	Enhancement of phenanthrene and pyrene degradation in rhizosphere of tall fescue (<i>Festuca</i>) Tj ETQq1 1 0.784314, <i>rgBT /Overlock 10 T</i>	12.4	101
6	Carbon nanotubes: a review on properties, synthesis methods and applications in micro and nanotechnology. <i>Microsystem Technologies</i> , 2021, 27, 4183-4192.	2.0	77
7	Phytotoxicity of petroleum hydrocarbons: Sources, impacts and remediation strategies. <i>Environmental Research</i> , 2021, 197, 111031.	7.5	71
8	Cadmium-induced ultramorphological and physiological changes in leaves of two transgenic cotton cultivars and their wild relative. <i>Journal of Hazardous Materials</i> , 2009, 168, 614-625.	12.4	69
9	Inorganic and organic pollution in agricultural soil from an emerging e-waste recycling town in Taizhou area, China. <i>Journal of Soils and Sediments</i> , 2010, 10, 895-906.	3.0	61
10	Enhanced phytoremediation potential of polychlorinated biphenyl contaminated soil from e-waste recycling area in the presence of randomly methylated- β -cyclodextrins. <i>Journal of Hazardous Materials</i> , 2009, 172, 1671-1676.	12.4	57
11	Graphene-based nanocomposites: synthesis and their theranostic applications. <i>Journal of Drug Targeting</i> , 2018, 26, 858-883.	4.4	51
12	Levels and patterns of polycyclic aromatic hydrocarbons and polychlorinated biphenyls in municipal waste incinerator bottom ash in Zhejiang province, China. <i>Journal of Hazardous Materials</i> , 2010, 179, 197-202.	12.4	48
13	The response of arsenic bioavailability and microbial community in paddy soil with the application of sulfur fertilizers. <i>Environmental Pollution</i> , 2020, 264, 114679.	7.5	48
14	End-capped group modification on cyclopentadithiophene based non-fullerene small molecule acceptors for efficient organic solar cells; a DFT approach. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 113, 108162.	2.4	46
15	Assessment of phenanthrene bioavailability in aged and unaged soils by mild extraction. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 549-559.	2.7	42
16	Influence of Heavy Metals and PCBs Pollution on the Enzyme Activity and Microbial Community of Paddy Soils around an E-Waste Recycling Workshop. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 3118-3131.	2.6	37
17	Carbon nanotubes/nanofibers (CNTs/CNFs): a review on state of the art synthesis methods. <i>Microsystem Technologies</i> , 2022, 28, 885-901.	2.0	35
18	Abundance and diversity of microbial arsenic biotransformation genes in the sludge of full-scale anaerobic digesters from a municipal wastewater treatment plant. <i>Environment International</i> , 2020, 138, 105535.	10.0	33

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19	Monitoring and spatiotemporal variations of pyrethroid insecticides in surface water, sediment, and fish of the river Chenab Pakistan. <i>Environmental Science and Pollution Research</i> , 2018, 25, 22584-22597.	5.3	30
20	Combined application of <i>Bacillus</i> sp. MN-54 and phosphorus improved growth and reduced lead uptake by maize in the lead-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2020, 27, 44528-44539.	5.3	30
21	Exogenous melatonin mitigates chromium toxicity in maize seedlings by modulating antioxidant system and suppresses chromium uptake and oxidative stress. <i>Environmental Geochemistry and Health</i> , 2022, 44, 1451-1469.	3.4	29
22	Effect of biochar and quicklime on growth of wheat and physicochemical properties of Ultisols. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	1.3	28
23	A toxicological review on potential microbial degradation intermediates of 2,4,6-trinitrotoluene, and its implications in bioremediation. <i>KSCE Journal of Civil Engineering</i> , 2013, 17, 1223-1231.	1.9	27
24	Improved RDX detoxification with starch addition using a novel nitrogen-fixing aerobic microbial consortium from soil contaminated with explosives. <i>Journal of Hazardous Materials</i> , 2015, 287, 243-251.	12.4	26
25	Microbial Degradation and Toxicity of Hexahydro-1,3,5-Trinitro-1,3,5-Triazine. <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 1311-1323.	2.1	25
26	Optimizing the Sowing Date and Irrigation Strategy to Improve Maize Yield by Using CERES (Crop) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 6	3.0	24
27	Enhanced Growth of Mungbean and Remediation of Petroleum Hydrocarbons by <i>Enterobacter</i> sp. MN17 and Biochar Addition in Diesel Contaminated Soil. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8548.	2.5	24
28	Biotoxicity Assessment of Pyrene in Soil Using a Battery of Biological Assays. <i>Archives of Environmental Contamination and Toxicology</i> , 2012, 63, 503-512.	4.1	23
29	A Battery of Bioassays for the Evaluation of Phenanthrene Biotoxicity in Soil. <i>Archives of Environmental Contamination and Toxicology</i> , 2013, 65, 47-55.	4.1	22
30	Assessment of Pyrene Bioavailability in Soil by Mild Hydroxypropyl- β -Cyclodextrin Extraction. <i>Archives of Environmental Contamination and Toxicology</i> , 2011, 60, 107-115.	4.1	21
31	Phytochemical characterization of ultrasound-processed sorghum sprouts for the use in functional foods. <i>International Journal of Food Properties</i> , 2020, 23, 853-863.	3.0	20
32	Isolation and Characterization of Oil-Degrading <i>Enterobacter</i> sp. from Naturally Hydrocarbon-Contaminated Soils and Their Potential Use against the Bioremediation of Crude Oil. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3504.	2.5	19
33	Biochar and <i>Bacillus</i> sp. MN54 Assisted Phytoremediation of Diesel and Plant Growth Promotion of Maize in Hydrocarbons Contaminated Soil. <i>Agronomy</i> , 2021, 11, 1795.	3.0	19
34	Improving Nutrient Uptake, Growth, Yield and Protein Content in Chickpea by the Co-Addition of Phosphorus Fertilizers, Organic Manures, and <i>Bacillus</i> sp. MN-54. <i>Agronomy</i> , 2021, 11, 436.	3.0	18
35	Improved TNT detoxification by starch addition in a nitrogen-fixing <i>Methylophilus</i> -dominant aerobic microbial consortium. <i>Journal of Hazardous Materials</i> , 2015, 300, 873-881.	12.4	16
36	Unveiling the Efficiency of Vermicompost Derived from Different Biowastes on Wheat (<i>Triticum</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 6	3.0	16

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37	Surfactant enhanced pyrene degradation in the rhizosphere of tall fescue (<i>Festuca arundinacea</i>). <i>Environmental Science and Pollution Research</i> , 2016, 23, 18129-18136.	5.3	15
38	Spatial variability and possible cause analysis of regional precipitation complexity based on optimized sample entropy. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 3384-3398.	2.7	15
39	Performance Evaluation of Asphalt Modified with Municipal Wastes for Sustainable Pavement Construction. <i>Sustainability</i> , 2016, 8, 949.	3.2	14
40	Optimization of irrigation water use efficiency evaluation indicators based on DPSIR-ISD model. <i>Water Science and Technology: Water Supply</i> , 2020, 20, 83-94.	2.1	14
41	Bacillus-Dominant Airborne Bacterial Communities Identified During Asian Dust Events. <i>Microbial Ecology</i> , 2019, 78, 677-687.	2.8	13
42	Postharvest ascorbic acid application maintained physiological and antioxidant responses of Guava (<i>Psidium guajava</i> L.) at ambient storage. <i>Food Science and Technology</i> , 2021, 41, 748-754.	1.7	12
43	Evaluation of Modified Non-Normal Process Capability Index and Its Bootstrap Confidence Intervals. <i>IEEE Access</i> , 2017, 5, 12135-12142.	4.2	12
44	On multiplicative degree based topological indices for planar octahedron networks. <i>Main Group Metal Chemistry</i> , 2020, 43, 219-228.	1.6	11
45	Application of an improved multifractal detrended fluctuation analysis approach for estimation of the complexity of daily precipitation. <i>International Journal of Climatology</i> , 2021, 41, 4653-4671.	3.5	9
46	Phytotoxicity assessment of phenanthrene and pyrene in soil using two barley genotypes. <i>Toxicological and Environmental Chemistry</i> , 2014, 96, 94-105.	1.2	8
47	Arsenic Transformation in Swine Wastewater with Low-Arsenic Content during Anaerobic Digestion. <i>Water (Switzerland)</i> , 2017, 9, 826.	2.7	8
48	Proximate composition, functional properties and quantitative analysis of benzoyl peroxide and benzoic acid in wheat flour samples: effect on wheat flour quality. <i>PeerJ</i> , 2020, 8, e8788.	2.0	8
49	Enzymatic conversion of milk lactose to prebiotic galacto-oligosaccharides to produce low lactose yogurt. <i>Journal of Food Processing and Preservation</i> , 2018, 42, e13586.	2.0	7
50	Foliar- and soil-applied salicylic acid and bagasse compost addition to soil reduced deleterious effects of salinity on wheat. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	7
51	Phytoremediation of Agricultural Pollutants. <i>Concepts and Strategies in Plant Sciences</i> , 2020, , 27-81.	0.5	7
52	Effects of different combinations of N, P and K at different time interval on vegetative, reproductive, yield and quality traits of mango (<i>Mangifera Indica</i> . L) cv. Dusehri. <i>Brazilian Journal of Biology</i> , 2021, 82, e235612.	0.9	4
53	A <i>Sporolactobacillus</i> , <i>Clostridium</i> , and <i>Paenibacillus</i> - Dominant Microbial Consortium Improved Anaerobic RDX Detoxification by Starch Addition. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 839-847.	2.1	3
54	Rapid and nondestructive characterization of multiple frying sunflower oil blend using fourier transform infrared spectroscopy and chemometrics. <i>International Journal of Food Properties</i> , 2022, 25, 214-226.	3.0	3

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55	A comparison study of the potential risks induced in arable land and forest soils by carcass-derived pollutants. <i>Environmental Geochemistry and Health</i> , 2018, 40, 451-460.	3.4	2
56	Amalgamation of aligned carbon nanostructures at low temperature and the synthesis of vertically aligned carbon nanofibers (CNFs). <i>Microsystem Technologies</i> , 2020, 26, 1521-1529.	2.0	2
57	Impacts of Water Quality on Human Health in Pakistan. <i>World Water Resources</i> , 2021, , 225-247.	0.4	2
58	Frequency Analysis for Functionally Graded Material Cylindrical Shells: A Significant Case Study. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-10.	1.1	1
59	Alleviation of Toxic Effects of Untreated Wastewater on Selective Vegetables Using Soil Organic Amendments. <i>Tarim Bilimleri Dergisi</i> , 0, , .	0.4	0