Muhammad Imran

List of Publications by Year
in descending order

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82 papers	4,664 citations	109137 35 h-index	110170 64 g-index
82 all docs	82 docs citations	82 times ranked	5247 citing authors

#	Article	IF	Citations
1	Spatial distribution, health risk assessment, and public perception of groundwater in Bahawalnagar, Punjab, Pakistan: a multivariate analysis. Environmental Geochemistry and Health, 2023, 45, 381-391.	1.8	6
2	Iron oxide nanoparticles doped biochar ameliorates trace elements induced phytotoxicity in tomato by modulation of physiological and biochemical responses: Implications for human health risk. Chemosphere, 2022, 289, 133203.	4.2	13
3	Multivariate analysis of accumulation and critical risk analysis of potentially hazardous elements in forage crops. Environmental Monitoring and Assessment, 2022, 194, 139.	1.3	4
4	Association of GSTM1 and GSTT1 genes insertion/deletion polymorphism with colorectal cancer risk: a case-control study of Khyber Pakhtunkhwa population Pakistan. JPMA the Journal of the Pakistan Medical Association, 2022, 72, 457-463.	0.1	1
5	Biosorption and health risk assessment of arsenic contaminated water through cotton stalk biochar. Surfaces and Interfaces, 2022, 29, 101806.	1.5	9
6	Potential of nanocomposites of zero valent copper and magnetite with Eleocharis dulcis biochar for packed column and batch scale removal of Congo red dye. Environmental Pollution, 2022, 305, 119291.	3.7	11
7	Potential of Fish Scale Biochar Nanocomposite with ZnO for Effective Sequestration of Cr (VI) from Water: Modeling and Kinetics. International Journal of Environmental Research, 2022, 16, .	1.1	3
8	Synthesis, characterization and application of novel MnO and CuO impregnated biochar composites to sequester arsenic (As) from water: Modeling, thermodynamics and reusability. Journal of Hazardous Materials, 2021, 401, 123338.	6.5	112
9	Nano-zerovalent manganese/biochar composite for the adsorptive and oxidative removal of Congo-red dye from aqueous solutions. Journal of Hazardous Materials, 2021, 403, 123854.	6.5	144
10	Hydrogeochemical and health risk evaluation of arsenic in shallow and deep aquifers along the different floodplains of Punjab, Pakistan. Journal of Hazardous Materials, 2021, 402, 124074.	6.5	46
11	Nanocomposites of sedimentary material with ZnO and magnetite for the effective sequestration of arsenic from aqueous systems: Reusability, modeling and kinetics. Environmental Technology and Innovation, 2021, 21, 101298.	3.0	16
12	Investigation on Cadmium Ions Removal from Water by a Nanomagnetite Based Biochar Derived from Eleocharis Dulcis. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 415-425.	1.9	18
13	Adsorptive Mechanism of Chromium Adsorption on Siltstoneâ€“Nanomagnetiteâ€“Biochar Composite. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 1608-1620.	1.9	17
14	Effective sequestration of Congo red dye with ZnO/cotton stalks biochar nanocomposite: MODELING, reusability and stability. Journal of Saudi Chemical Society, 2021, 25, 101176.	2.4	44
15	Photocatalytic and biomedical investigation of green synthesized NiONPs: Toxicities and degradation pathways of Congo red dye. Surfaces and Interfaces, 2021, 23, 100944.	1.5	14
16	Associations of transcription factor 7-Like 2 (TCF7L2) gene polymorphism in patients of type 2 diabetes mellitus from Khyber Pakhtunkhwa population of Pakistan. African Health Sciences, 2021, 21, 15-22.	0.3	11
17	Urban noise assessment and its nonauditory health effects on the residents of Chiniot and Jhang, Punjab, Pakistan. Environmental Science and Pollution Research, 2021, 28, 54909-54921.	2.7	3
18	Distribution and health risk assessment of trace elements in ground/surface water of Kot Addu, Punjab, Pakistan: a multivariate analysis. Environmental Monitoring and Assessment, 2021, 193, 351.	1.3	11

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19	Hydrogeochemical and health risk investigation of potentially toxic elements in groundwater along River Sutlej floodplain in Punjab, Pakistan. Environmental Geochemistry and Health, 2021, 43, 5195-5209.	1.8	12
20	Health risks of arsenic buildup in soil and food crops after wastewater irrigation. Science of the Total Environment, 2021, 772, 145266.	3.9	52
21	Quantitative determination of creatinine from serum of prostate cancer patients by N-doped porous carbon antimony (Sb/NPC) nanoparticles. Bioelectrochemistry, 2021, 140, 107815.	2.4	13
22	Tin derived antimony/nitrogen-doped porous carbon (Sb/NPC) composite for electrochemical sensing of albumin from hepatocellular carcinoma patients. Mikrochimica Acta, 2021, 188, 338.	2.5	1
23	Biochar mitigates arsenic-induced human health risks and phytotoxicity in quinoa under saline conditions by modulating ionic and oxidative stress responses. Environmental Pollution, 2021, 287, 117348.	3.7	29
24	Growth, yield and arsenic accumulation by wheat grown in a pressmud amended salt-affected soil irrigated with arsenic contaminated water. Ecotoxicology and Environmental Safety, 2021, 224, 112692.	2.9	15
25	Exploring the potential of nano-zerovalent copper modified biochar for the removal of ciprofloxacin from water. Environmental Nanotechnology, Monitoring and Management, 2021, 16, 100604.	1.7	6
26	A new biochar from cotton stalks for As (V) removal from aqueous solutions: its improvement with H3PO4 and KOH. Environmental Geochemistry and Health, 2020, 42, 2519-2534.	1.8	38
27	Effect of salinity on physiological, biochemical and photostabilizing attributes of two genotypes of quinoa (Chenopodium quinoa Willd.) exposed to arsenic stress. Ecotoxicology and Environmental Safety, 2020, 187, 109814.	2.9	63
28	Arsenic Environmental Contamination Status in South Asia. , 2020, , 13-39.		25
29	Nano zerovalent zinc catalyzed peroxymonosulfate based advanced oxidation technologies for treatment of chlorpyrifos in aqueous solution: A semi-pilot scale study. Journal of Cleaner Production, 2020, 246, 119032.	4.6	62
30	Compositional and health risk assessment of drinking water from health facilities of District Vehari, Pakistan. Environmental Geochemistry and Health, 2020, 42, 2425-2437.	1.8	25
31	Nickel Toxicity Induced Changes in Nutrient Dynamics and Antioxidant Profiling in Two Maize (Zea) Tj ETQq1 1 0.784314 rgBT /Overlock	1.6	51
32	Potential of siltstone and its composites with biochar and magnetite nanoparticles for the removal of cadmium from contaminated aqueous solutions: Batch and column scale studies. Environmental Pollution, 2020, 259, 113938.	3.7	37
33	Assessment of noise pollution and its effects on human health in industrial hub of Pakistan. Environmental Science and Pollution Research, 2020, 27, 2819-2828.	2.7	28
34	Phytochemical composition, antioxidant and antimicrobial activities of leaves of Olea europaea wild variety. Journal of Food Measurement and Characterization, 2020, 14, 640-648.	1.6	8
35	Biomedical and photocatalytic applications of biosynthesized silver nanoparticles: Ecotoxicology study of brilliant green dye and its mechanistic degradation pathways. Journal of Molecular Liquids, 2020, 319, 114114.	2.3	49
36	Use of agricultural bio-wastes to remove arsenic from contaminated water. Environmental Geochemistry and Health, 2020, , 1.	1.8	11

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37	Hydrogeochemical investigation of arsenic in drinking water of schools and age dependent risk assessment in Vehari District, Punjab Pakistan: a multivariate analysis. Environmental Science and Pollution Research, 2020, 27, 30530-30541.	2.7	16
38	Effective sequestration of Cr (VI) from wastewater using nanocomposite of ZnO with cotton stalks biochar: modeling, kinetics, and reusability. Environmental Science and Pollution Research, 2020, 27, 33821-33834.	2.7	27
39	Nano-zerovalent copper as a Fenton-like catalyst for the degradation of ciprofloxacin in aqueous solution. Journal of Water Process Engineering, 2020, 37, 101325.	2.6	48
40	Synthesis and characterization of titanium dioxide nanoparticles by chemical and green methods and their antifungal activities against wheat rust. Chemosphere, 2020, 258, 127352.	4.2	110
41	Utilization of Bio-Municipal Solid Waste Improves Saline-Sodic Soils and Crop Productivity in Rice-Wheat. Compost Science and Utilization, 2020, 28, 16-27.	1.2	6
42	Effect of biochar modified with magnetite nanoparticles and HNO3 for efficient removal of Cr(VI) from contaminated water: A batch and column scale study. Environmental Pollution, 2020, 261, 114231.	3.7	95
43	Acid treated biochar enhances cadmium tolerance by restricting its uptake and improving physio-chemical attributes in quinoa (Chenopodium quinoa Willd.). Ecotoxicology and Environmental Safety, 2020, 191, 110218.	2.9	38
44	Effect of Silver Nanoparticles on Biofilm Formation and EPS Production of Multidrug-Resistant Klebsiella pneumoniae. BioMed Research International, 2020, 2020, 1-9.	0.9	90
45	Akt Downregulates B-Cell Translocation Gene-2 Expression Via Erk1/2 Inhibition for Proliferation of Cancer Cells. Annals of Clinical and Laboratory Science, 2020, 50, 711-716.	0.2	1
46	Synergistic effects of activated carbon and nano-zerovalent copper on the performance of hydroxyapatite-alginate beads for the removal of As3+ from aqueous solution. Journal of Cleaner Production, 2019, 235, 875-886.	4.6	108
47	Batch and Column Scale Removal of Cadmium from Water Using Raw and Acid Activated Wheat Straw Biochar. Water (Switzerland), 2019, 11, 1438.	1.2	76
48	A Comparative Analysis of Salinity and Nickel Tolerance of Tomato (Solanum lycopersicum L.). Communications in Soil Science and Plant Analysis, 2019, 50, 2294-2308.	0.6	2
49	Greener synthesis of zinc oxide nanoparticles using Trianthema portulacastrum extract and evaluation of its photocatalytic and biological applications. Journal of Photochemistry and Photobiology B: Biology, 2019, 192, 147-157.	1.7	133
50	Synthesis of magnetite-based nanocomposites for effective removal of brilliant green dye from wastewater. Environmental Science and Pollution Research, 2019, 26, 24489-24502.	2.7	31
51	Starch composition, antioxidant potential, and glycemic indices of various varieties of Triticum aesitivum L. and Zea mays L. available in Pakistan. Journal of Food Biochemistry, 2019, 43, e12943.	1.2	6
52	Biosorption of Pb(II) from contaminated water ontoMoringa oleiferabiomass: kinetics and equilibrium studies. International Journal of Phytoremediation, 2019, 21, 777-789.	1.7	35
53	Municipal Solid Waste Compost Improves Crop Productivity in Saline-Sodic Soil: A Multivariate Analysis of Soil Chemical Properties and Yield Response. Communications in Soil Science and Plant Analysis, 2019, 50, 1013-1029.	0.6	16
54	Biogeochemical behavior of nickel under different abiotic stresses: toxicity and detoxification mechanisms in plants. Environmental Science and Pollution Research, 2019, 26, 10496-10514.	2.7	52

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55	Biosorption of lead by cotton shells powder: Characterization and equilibrium modeling study. International Journal of Phytoremediation, 2019, 21, 138-144.	1.7	18
56	Synergistic effects of bismuth coupling on the reactivity and reusability of zerovalent iron nanoparticles for the removal of cadmium from aqueous solution. Science of the Total Environment, 2019, 669, 333-341.	3.9	39
57	Arsenic removal from aqueous solutions and groundwater using agricultural biowastes-derived biosorbents and biochar: a column-scale investigation. International Journal of Phytoremediation, 2019, 21, 509-518.	1.7	48
58	Alleviation of cadmium accumulation in maize (Zea mays L.) by foliar spray of zinc oxide nanoparticles and biochar to contaminated soil. Environmental Pollution, 2019, 248, 358-367.	3.7	230
59	Hydroxyl and sulfate radical mediated degradation of ciprofloxacin using nano zerovalent manganese catalyzed S2O82â^'. Chemical Engineering Journal, 2019, 356, 199-209.	6.6	158
60	A multivariate analysis of physiological and antioxidant responses and health hazards of wheat under cadmium and lead stress. Environmental Science and Pollution Research, 2019, 26, 362-370.	2.7	46
61	Health risk assessment of drinking arsenic-containing groundwater in Hasilpur, Pakistan: effect of sampling area, depth, and source. Environmental Science and Pollution Research, 2019, 26, 20018-20029.	2.7	96
62	Phytochemical composition, biological potential and enzyme inhibition activity of Scandix pecten-veneris L.. Journal of Zhejiang University: Science B, 2018, 19, 120-129.	1.3	11
63	Assessment and public perception of drinking water quality and safety in district Vehari, Punjab, Pakistan. Journal of Cleaner Production, 2018, 181, 224-234.	4.6	30
64	Enhanced antimicrobial, anti-oxidant applications of green synthesized AgNPs- an acute chronic toxicity study of phenolic azo dyes & study of materials surface using X-ray photoelectron spectroscopy. Journal of Photochemistry and Photobiology B: Biology, 2018, 180, 208-217.	1.7	44
65	Arsenic Level and Risk Assessment of Groundwater in Vehari, Punjab Province, Pakistan. Exposure and Health, 2018, 10, 229-239.	2.8	76
66	Bacterial biofilm and associated infections. Journal of the Chinese Medical Association, 2018, 81, 7-11.	0.6	973
67	Biosorption potential of natural, pyrolysed and acid-assisted pyrolysed sugarcane bagasse for the removal of lead from contaminated water. PeerJ, 2018, 6, e5672.	0.9	19
68	Toxicities, kinetics and degradation pathways investigation of ciprofloxacin degradation using iron-mediated H2O2 based advanced oxidation processes. Chemical Engineering Research and Design, 2018, 117, 473-482.	2.7	51
69	Aquatic Biodegradation of Methylene Blue by Copper Oxide Nanoparticles Synthesized from Azadirachta indica Leaves Extract. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 2455-2462.	1.9	39
70	Zinc oxide nanoparticles alter the wheat physiological response and reduce the cadmium uptake by plants. Environmental Pollution, 2018, 242, 1518-1526.	3.7	304
71	Solar light driven degradation of norfloxacin using as-synthesized Bi3+ and Fe2+ co-doped ZnO with the addition of HSO5â^': Toxicities and degradation pathways investigation. Chemical Engineering Journal, 2018, 351, 841-855.	6.6	209
72	Amelioration of salineâ€"sodic soil with gypsum can increase yield and nitrogen use efficiency in riceâ€"wheat cropping system. Archives of Agronomy and Soil Science, 2017, 63, 1267-1280.	1.3	33

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73	Equilibrium modeling of cadmium biosorption from aqueous solution by compost. Environmental Science and Pollution Research, 2017, 24, 5277-5284.	2.7	42
74	Anaerobic degradation of municipal organic waste among others composting techniques improves N cycling through waste-soil-plant continuum. Journal of Soil Science and Plant Nutrition, 2017, , 0-0.	1.7	5
75	Stimulation of Î²-adrenergic receptors plays a protective role via increased expression of RAF-1 and PDX-1 in hyperglycemic rat pancreatic islet (RIN-m5F) cells. Archives of Medical Science, 2017, 2, 470-480.	0.4	9
76	Arsenic Behaviour in Soil-Plant System: Biogeochemical Reactions and Chemical Speciation Influences. , 2017, , 97-140.		66
77	Preparation and characterization of a green nano-support for the covalent immobilization of glucoamylase from Neurospora sitophila. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 309-317.	1.7	10
78	Phytosynthesis and Antileishmanial Activity of Gold Nanoparticles by M aytenus Royleanus. Journal of Food Biochemistry, 2016, 40, 420-427.	1.2	51
79	Nutritional Composition, Antioxidant and Antimicrobial Activities of Selected Wild Edible Plants. Journal of Food Biochemistry, 2016, 40, 61-70.	1.2	40
80	Stress-induced NF-ÎºB activation differentiates promyelocytic leukemia cells to macrophages in response to all-trans-retinoic acid. Cellular Signalling, 2015, 27, 694-706.	1.7	4
81	Size dependent catalytic activities of green synthesized gold nanoparticles and electro-catalytic oxidation of catechol on gold nanoparticles modified electrode. RSC Advances, 2015, 5, 99364-99377.	1.7	108
82	Efficient sequestration of lead from aqueous systems by peanut shells and compost: evidence from fixed bed column and batch scale studies. PeerJ Physical Chemistry, 0, 4, e21.	0.0	7