

Muhammad Shahid

List of Publications by Year in descending order

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342
papers

16,289
citations

15466

65
h-index

22764

112
g-index

346
all docs

346
docs citations

346
times ranked

13687
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison of technologies for remediation of heavy metal contaminated soils. Journal of Geochemical Exploration, 2017, 182, 247-268.	1.5	877
2	Chromium speciation, bioavailability, uptake, toxicity and detoxification in soil-plant system: A review. Chemosphere, 2017, 178, 513-533.	4.2	735
3	Foliar heavy metal uptake, toxicity and detoxification in plants: A comparison of foliar and root metal uptake. Journal of Hazardous Materials, 2017, 325, 36-58.	6.5	720
4	Arsenic Uptake, Toxicity, Detoxification, and Speciation in Plants: Physiological, Biochemical, and Molecular Aspects. International Journal of Environmental Research and Public Health, 2018, 15, 59.	1.2	541
5	Lead Uptake, Toxicity, and Detoxification in Plants. Reviews of Environmental Contamination and Toxicology, 2011, 213, 113-136.	0.7	392
6	A critical review of selenium biogeochemical behavior in soil-plant system with an inference to human health. Environmental Pollution, 2018, 234, 915-934.	3.7	328
7	Arsenic removal by perilla leaf biochar in aqueous solutions and groundwater: An integrated spectroscopic and microscopic examination. Environmental Pollution, 2018, 232, 31-41.	3.7	297
8	A critical prospective analysis of the potential toxicity of trace element regulation limits in soils worldwide: Are they protective concerning health risk assessment? - A review. Environment International, 2019, 127, 819-847.	4.8	280
9	A critical review on arsenic removal from water using biochar-based sorbents: The significance of modification and redox reactions. Chemical Engineering Journal, 2020, 396, 125195.	6.6	243
10	A Review of Environmental Contamination and Health Risk Assessment of Wastewater Use for Crop Irrigation with a Focus on Low and High-Income Countries. International Journal of Environmental Research and Public Health, 2018, 15, 895.	1.2	234
11	Antimony bioavailability: Knowledge and research perspectives for sustainable agricultures. Journal of Hazardous Materials, 2015, 289, 219-234.	6.5	220
12	Copper uptake, essentiality, toxicity, detoxification and risk assessment in soil-plant environment. Chemosphere, 2020, 259, 127436.	4.2	217
13	Heavy-Metal-Induced Reactive Oxygen Species: Phytotoxicity and Physicochemical Changes in Plants. Reviews of Environmental Contamination and Toxicology, 2014, 232, 1-44.	0.7	215
14	Copper Oxide Nanoparticle Foliar Uptake, Phytotoxicity, and Consequences for Sustainable Urban Agriculture. Environmental Science & Technology, 2017, 51, 5242-5251.	4.6	203
15	Antioxidant and antimicrobial activities of essential oil and extracts of fennel (<i>Foeniculum</i>) Tj ETQq1 1 0.784314 rrgBT /Overlock 10 T	1.2	176
16	Arsenic removal by Japanese oak wood biochar in aqueous solutions and well water: Investigating arsenic fate using integrated spectroscopic and microscopic techniques. Science of the Total Environment, 2018, 621, 1642-1651.	3.9	175
17	A meta-analysis of the distribution, sources and health risks of arsenic-contaminated groundwater in Pakistan. Environmental Pollution, 2018, 242, 307-319.	3.7	175
18	Cadmium Bioavailability, Uptake, Toxicity and Detoxification in Soil-Plant System. Reviews of Environmental Contamination and Toxicology, 2016, 241, 73-137.	0.7	171

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19	Remediation of arsenic-contaminated water using agricultural wastes as biosorbents. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 467-499.	6.6	161
20	Arsenic uptake, accumulation and toxicity in rice plants: Possible remedies for its detoxification: A review. <i>Environmental Science and Pollution Research</i> , 2017, 24, 9142-9158.	2.7	159
21	Unraveling Health Risk and Speciation of Arsenic from Groundwater in Rural Areas of Punjab, Pakistan. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 12371-12390.	1.2	157
22	Effect of controlled atmosphere storage on pericarp browning, bioactive compounds and antioxidant enzymes of litchi fruits. <i>Food Chemistry</i> , 2016, 206, 18-29.	4.2	153
23	Differential Effects of Plant Growth-Promoting Rhizobacteria on Maize Growth and Cadmium Uptake. <i>Journal of Plant Growth Regulation</i> , 2016, 35, 303-315.	2.8	153
24	A critical review of mercury speciation, bioavailability, toxicity and detoxification in soil-plant environment: Ecotoxicology and health risk assessment. <i>Science of the Total Environment</i> , 2020, 711, 134749.	3.9	153
25	Chromium(VI) sorption efficiency of acid-activated banana peel over organo-montmorillonite in aqueous solutions. <i>International Journal of Phytoremediation</i> , 2017, 19, 605-613.	1.7	135
26	Exploring the arsenic removal potential of various biosorbents from water. <i>Environment International</i> , 2019, 123, 567-579.	4.8	130
27	A critical review of different factors governing the fate of pesticides in soil under biochar application. <i>Science of the Total Environment</i> , 2020, 711, 134645.	3.9	130
28	The evaluation of arsenic contamination potential, speciation and hydrogeochemical behaviour in aquifers of Punjab, Pakistan. <i>Chemosphere</i> , 2018, 199, 737-746.	4.2	119
29	No-reference image and video quality assessment: a classification and review of recent approaches. <i>Eurasip Journal on Image and Video Processing</i> , 2014, 2014, .	1.7	116
30	Phosphate-assisted phytoremediation of arsenic by <i>Brassica napus</i> and <i>Brassica juncea</i> : Morphological and physiological response. <i>International Journal of Phytoremediation</i> , 2017, 19, 670-678.	1.7	112
31	Arsenic speciation and biotransformation pathways in the aquatic ecosystem: The significance of algae. <i>Journal of Hazardous Materials</i> , 2021, 403, 124027.	6.5	111
32	Effect of salinity on cadmium tolerance, ionic homeostasis and oxidative stress responses in conocarpus exposed to cadmium stress: Implications for phytoremediation. <i>Ecotoxicology and Environmental Safety</i> , 2019, 171, 146-153.	2.9	109
33	Effect of water management and silicon on germination, growth, phosphorus and arsenic uptake in rice. <i>Ecotoxicology and Environmental Safety</i> , 2017, 144, 11-18.	2.9	107
34	Lead and Cadmium Phytoavailability and Human Bioaccessibility for Vegetables Exposed to Soil or Atmospheric Pollution by Process Ultrafine Particles. <i>Journal of Environmental Quality</i> , 2014, 43, 1593-1600.	1.0	106
35	Phyto-Toxicity of Chromium in Maize: Oxidative Damage, Osmolyte Accumulation, Anti-Oxidative Defense and Chromium Uptake. <i>Pedosphere</i> , 2017, 27, 262-273.	2.1	104
36	Impact of lead tolerant plant growth promoting rhizobacteria on growth, physiology, antioxidant activities, yield and lead content in sunflower in lead contaminated soil. <i>Chemosphere</i> , 2018, 195, 606-614.	4.2	104

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37	Comparative effect of calcium and EDTA on arsenic uptake and physiological attributes of <i>Pisum sativum</i> . International Journal of Phytoremediation, 2017, 19, 662-669.	1.7	100
38	Arsenic biogeochemical cycling in paddy soil-rice system: Interaction with various factors, amendments and mineral nutrients. Science of the Total Environment, 2021, 773, 145040.	3.9	100
39	Arsenic removal by natural and chemically modified water melon rind in aqueous solutions and groundwater. Science of the Total Environment, 2018, 645, 1444-1455.	3.9	96
40	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
41	Mutagenicity and cytotoxicity evaluation of photo-catalytically treated petroleum refinery wastewater using an array of bioassays. Chemosphere, 2017, 168, 590-598.	4.2	95
42	Chemical Composition, and Antioxidant and Antimicrobial Activities of Essential Oil of Spearmint (<i>Mentha spicata</i> L.) From Pakistan. Journal of Essential Oil Research, 2010, 22, 78-84.	1.3	94
43	Effect of fulvic acids on lead-induced oxidative stress to metal sensitive <i>Vicia faba</i> L. plant. Biology and Fertility of Soils, 2012, 48, 689-697.	2.3	94
44	Endophytic bacteria enhance remediation of tannery effluent in constructed wetlands vegetated with <i>Leptochloa fusca</i> . International Journal of Phytoremediation, 2018, 20, 121-128.	1.7	94
45	Influence of groundwater and wastewater irrigation on lead accumulation in soil and vegetables: Implications for health risk assessment and phytoremediation. International Journal of Phytoremediation, 2017, 19, 1037-1046.	1.7	92
46	Trace elements-induced phytohomeiosis: A critical review and mechanistic interpretation. Critical Reviews in Environmental Science and Technology, 2020, 50, 1984-2015.	6.6	92
47	Measurement of metal bioaccessibility in vegetables to improve human exposure assessments: field study of soil-plant-atmosphere transfers in urban areas, South China. Environmental Geochemistry and Health, 2016, 38, 1283-1301.	1.8	90
48	Graft polymerization of guar gum with acryl amide irradiated by microwaves for colonic drug delivery. International Journal of Biological Macromolecules, 2013, 62, 172-179.	3.6	89
49	Heavy Metal Stress and Crop Productivity. , 2015, , 1-25.		89
50	Management of human health risk in the context of kitchen gardens polluted by lead and cadmium near a lead recycling company. Journal of Soils and Sediments, 2016, 16, 1214-1224.	1.5	87
51	Characteristic features and dye degrading capability of agar-agar gel immobilized manganese peroxidase. International Journal of Biological Macromolecules, 2016, 86, 728-740.	3.6	86
52	Improvements in wheat productivity and soil quality can accomplish by co-application of biochars and chemical fertilizers. Science of the Total Environment, 2017, 607-608, 715-724.	3.9	86
53	Dose-dependent physiological responses of <i>Triticum aestivum</i> L. to soil applied TiO ₂ nanoparticles: Alterations in chlorophyll content, H ₂ O ₂ production, and genotoxicity. Agriculture, Ecosystems and Environment, 2018, 255, 95-101.	2.5	84
54	Assessing the effect of metal speciation on lead toxicity to <i>Vicia faba</i> pigment contents. Journal of Geochemical Exploration, 2014, 144, 290-297.	1.5	83

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55	Effect of compost addition on arsenic uptake, morphological and physiological attributes of maize plants grown in contrasting soils. <i>Journal of Geochemical Exploration</i> , 2017, 178, 83-91.	1.5	81
56	Assessment of arsenic exposure by drinking well water and associated carcinogenic risk in peri-urban areas of Vehari, Pakistan. <i>Environmental Geochemistry and Health</i> , 2020, 42, 121-133.	1.8	79
57	Zinc oxide nanoparticles affect carbon and nitrogen mineralization of <i>Phoenix dactylifera</i> leaf litter in a sandy soil. <i>Journal of Hazardous Materials</i> , 2017, 324, 298-305.	6.5	78
58	Arsenic Level and Risk Assessment of Groundwater in Vehari, Punjab Province, Pakistan. <i>Exposure and Health</i> , 2018, 10, 229-239.	2.8	76
59	Batch and Column Scale Removal of Cadmium from Water Using Raw and Acid Activated Wheat Straw Biochar. <i>Water (Switzerland)</i> , 2019, 11, 1438.	1.2	76
60	Heavy metal contamination and exposure risk assessment via drinking groundwater in Vehari, Pakistan. <i>Environmental Science and Pollution Research</i> , 2020, 27, 39852-39864.	2.7	76
61	Mechanisms of metal-phosphates formation in the rhizosphere soils of pea and tomato: environmental and sanitary consequences. <i>Journal of Soils and Sediments</i> , 2014, 14, 666-678.	1.5	75
62	Influence of EDTA and citric acid on lead-induced oxidative stress to <i>Vicia faba</i> roots. <i>Journal of Soils and Sediments</i> , 2014, 14, 835-843.	1.5	74
63	Challenges in microbially and chelate-assisted phytoextraction of cadmium and lead – A review. <i>Environmental Pollution</i> , 2021, 287, 117667.	3.7	74
64	Antioxidant, antimicrobial, antitumor, and cytotoxic activities of an important medicinal plant (<i>Euphorbia royleana</i>) from Pakistan. <i>Journal of Food and Drug Analysis</i> , 2015, 23, 109-115.	0.9	73
65	Understanding the impacts of climate change and human activities on streamflow: a case study of the Soan River basin, Pakistan. <i>Theoretical and Applied Climatology</i> , 2018, 134, 205-219.	1.3	73
66	Iron biofortification of wheat grains through integrated use of organic and chemical fertilizers in pH affected calcareous soil. <i>Plant Physiology and Biochemistry</i> , 2016, 104, 284-293.	2.8	72
67	Quantification and risk assessment of heavy metal build-up in soil-plant system after irrigation with untreated city wastewater in Vehari, Pakistan. <i>Environmental Geochemistry and Health</i> , 2020, 42, 4281-4297.	1.8	67
68	Arsenic Behaviour in Soil-Plant System: Biogeochemical Reactions and Chemical Speciation Influences. , 2017, , 97-140.		66
69	Water extraction kinetics of metals, arsenic and dissolved organic carbon from industrial contaminated poplar leaves. <i>Journal of Environmental Sciences</i> , 2013, 25, 2451-2459.	3.2	64
70	Pesticide exposure in the local community of Vehari District in Pakistan: An assessment of knowledge and residues in human blood. <i>Science of the Total Environment</i> , 2017, 587-588, 137-144.	3.9	63
71	Effect of salinity on physiological, biochemical and photostabilizing attributes of two genotypes of quinoa (<i>Chenopodium quinoa</i> Willd.) exposed to arsenic stress. <i>Ecotoxicology and Environmental Safety</i> , 2020, 187, 109814.	2.9	63
72	Influence of biochar on trace element uptake, toxicity and detoxification in plants and associated health risks: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2803-2843.	6.6	63

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73	Kinetic study of phytotoxicity induced by foliar lead uptake for vegetables exposed to fine particles and implications for sustainable urban agriculture. <i>Journal of Environmental Sciences</i> , 2016, 46, 16-27.	3.2	61
74	Long-Term Field Metal Extraction by <i>Pelargonium</i> : Phytoextraction Efficiency in Relation to Plant Maturity. <i>International Journal of Phytoremediation</i> , 2012, 14, 493-505.	1.7	60
75	Ripening period influences fruit softening and antioxidative system of "Samar Bahisht Chaunsa" mango. <i>Scientia Horticulturae</i> , 2013, 160, 108-114.	1.7	60
76	Influence of plant species and phosphorus amendments on metal speciation and bioavailability in a smelter impacted soil: a case study of food-chain contamination. <i>Journal of Soils and Sediments</i> , 2014, 14, 655-665.	1.5	59
77	Chemical composition, antioxidant, antitumor, anticancer and cytotoxic effects of <i>Psidium guajava</i> leaf extracts. <i>Pharmaceutical Biology</i> , 2016, 54, 1971-1981.	1.3	59
78	Behavior and Impact of Zirconium in the Soil-Plant System: Plant Uptake and Phytotoxicity. <i>Reviews of Environmental Contamination and Toxicology</i> , 2013, 221, 107-127.	0.7	57
79	Studies on wheat bran Arabinoxylan for its immunostimulatory and protective effects against avian coccidiosis. <i>Carbohydrate Polymers</i> , 2012, 90, 333-339.	5.1	56
80	Risk assessment and biophysicochemical responses of spinach to foliar application of lead oxide nanoparticles: A multivariate analysis. <i>Chemosphere</i> , 2020, 245, 125605.	4.2	56
81	Synthesis, characterization, biological activities, crystal structure and DNA binding of organotin(IV) 5-chlorosalicylates. <i>Journal of Coordination Chemistry</i> , 2015, 68, 2369-2387.	0.8	54
82	A critical analysis of wastewater use in agriculture and associated health risks in Pakistan. <i>Environmental Geochemistry and Health</i> , 2023, 45, 5599-5618.	1.8	54
83	Assessment of lead speciation by organic ligands using speciation models. <i>Chemical Speciation and Bioavailability</i> , 2012, 24, 248-252.	2.0	53
84	Effect of organic ligands on lead-induced oxidative damage and enhanced antioxidant defense in the leaves of <i>Vicia faba</i> plants. <i>Journal of Geochemical Exploration</i> , 2014, 144, 282-289.	1.5	53
85	Arsenic accumulation and physiological attributes of spinach in the presence of amendments: an implication to reduce health risk. <i>Environmental Science and Pollution Research</i> , 2017, 24, 16097-16106.	2.7	53
86	Terminal drought and seed priming improves drought tolerance in wheat. <i>Physiology and Molecular Biology of Plants</i> , 2018, 24, 845-856.	1.4	53
87	Biogeochemistry of antimony in soil-plant system: Ecotoxicology and human health. <i>Applied Geochemistry</i> , 2019, 106, 45-59.	1.4	53
88	Evaluating the antimicrobial potential of green cardamom essential oil focusing on quorum sensing inhibition of <i>Chromobacterium violaceum</i> . <i>Journal of Food Science and Technology</i> , 2017, 54, 2306-2315.	1.4	52
89	Toxicity of iron oxide nanoparticles to grass litter decomposition in a sandy soil. <i>Scientific Reports</i> , 2017, 7, 41965.	1.6	52
90	Biogeochemical behavior of nickel under different abiotic stresses: toxicity and detoxification mechanisms in plants. <i>Environmental Science and Pollution Research</i> , 2019, 26, 10496-10514.	2.7	52

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91	Health risks of arsenic buildup in soil and food crops after wastewater irrigation. <i>Science of the Total Environment</i> , 2021, 772, 145266.	3.9	52
92	Constructed wetlands as a sustainable technology for wastewater treatment with emphasis on chromium-rich tannery wastewater. <i>Journal of Hazardous Materials</i> , 2022, 422, 126926.	6.5	52
93	A comparative study to evaluate efficiency of EDTA and calcium in alleviating arsenic toxicity to germinating and young <i>Vicia faba</i> L. seedlings. <i>Journal of Soils and Sediments</i> , 2018, 18, 2271-2281.	1.5	51
94	Nickel Toxicity Induced Changes in Nutrient Dynamics and Antioxidant Profiling in Two Maize (<i>Zea mays</i>) Cultivars. <i>Journal of Environmental Science and Pollution Research</i> , 2021, 28, 1010-1024.	1.6	51
95	Citrus Genus and Its Waste Utilization: A Review on Health-Promoting Activities and Industrial Application. <i>Evidence-based Complementary and Alternative Medicine</i> , 2021, 2021, 1-17.	0.5	50
96	New indole based hybrid oxadiazole scaffolds with N-substituted acetamides: As potent anti-diabetic agents. <i>Bioorganic Chemistry</i> , 2018, 81, 253-263.	2.0	48
97	Arsenic removal from aqueous solutions and groundwater using agricultural biowastes-derived biosorbents and biochar: a column-scale investigation. <i>International Journal of Phytoremediation</i> , 2019, 21, 509-518.	1.7	48
98	Quantitative assessment of regional land use and climate change impact on runoff across Gilgit watershed. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	1.3	48
99	Structural, thermal and rheological characterization of modified <i>Dalbergia sissoo</i> gum: A medicinal gum. <i>International Journal of Biological Macromolecules</i> , 2016, 84, 236-245.	3.6	46
100	Synthesis of Eco-friendly Cobalt Nanoparticles Using <i>Celosia argentea</i> Plant Extract and Their Efficacy Studies as Antioxidant, Antibacterial, Hemolytic and Catalytic Agent. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 6435-6444.	1.7	46
101	Assessment of nutritional loss with food waste and factors governing this waste at household level in Pakistan. <i>Journal of Cleaner Production</i> , 2019, 206, 1015-1024.	4.6	46
102	A multivariate analysis of physiological and antioxidant responses and health hazards of wheat under cadmium and lead stress. <i>Environmental Science and Pollution Research</i> , 2019, 26, 362-370.	2.7	46
103	Hydrogeochemical and health risk evaluation of arsenic in shallow and deep aquifers along the different floodplains of Punjab, Pakistan. <i>Journal of Hazardous Materials</i> , 2021, 402, 124074.	6.5	46
104	Relationship between rhizosphere acidification and phytoremediation in two acacia species. <i>Journal of Soils and Sediments</i> , 2016, 16, 1392-1399.	1.5	45
105	Effect of organic amendments on cadmium stress to pea: A multivariate comparison of germinating vs young seedlings and younger vs older leaves. <i>Ecotoxicology and Environmental Safety</i> , 2018, 151, 91-97.	2.9	45
106	Dynamic and shear stress rheological properties of guar galactomannans and its hydrolyzed derivatives. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 687-691.	3.6	44
107	Foliar uptake of arsenic nanoparticles by spinach: an assessment of physiological and human health risk implications. <i>Environmental Science and Pollution Research</i> , 2019, 26, 20121-20131.	2.7	44
108	Aqueous enzymatic process for oil and protein extraction from <i>Moringa oleifera</i> seed. <i>European Journal of Lipid Science and Technology</i> , 2011, 113, 1012-1018.	1.0	43

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109	Phytoremediation. , 2015, , 85-105.		42
110	Hydrological evaluation of merged satellite precipitation datasets for streamflow simulation using SWAT: A case study of Potohar Plateau, Pakistan. Journal of Hydrology, 2020, 587, 125040.	2.3	41
111	Performance Assessment of SM2RAIN-CCI and SM2RAIN-ASCAT Precipitation Products over Pakistan. Remote Sensing, 2019, 11, 2040.	1.8	40
112	Lipid stability, antioxidant potential and fatty acid composition of broilers breast meat as influenced by quercetin in combination with α -tocopherol enriched diets. Lipids in Health and Disease, 2015, 14, 61.	1.2	39
113	Developing an Ensemble Precipitation Algorithm from Satellite Products and Its Topographical and Seasonal Evaluations Over Pakistan. Remote Sensing, 2018, 10, 1835.	1.8	39
114	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
115	A new biochar from cotton stalks for As (V) removal from aqueous solutions: its improvement with H ₃ PO ₄ and KOH. Environmental Geochemistry and Health, 2020, 42, 2519-2534.	1.8	38
116	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
117	Synthesis, characterization and efficiency evaluation of chitosan-polyurethane based textile finishes. International Journal of Biological Macromolecules, 2016, 93, 145-155.	3.6	36
118	Response of sunflower hybrids to nitrogen application grown under different agro-environments. Journal of Plant Nutrition, 2017, 40, 82-92.	0.9	36
119	Synthesis and spectroscopic and thermogravimetric characterization of heterobimetallic complexes with Sn(IV) and Pd(II); DNA binding, alkaline phosphatase inhibition and biological activity studies. Journal of Coordination Chemistry, 2015, 68, 662-677.	0.8	35
120	Uptake and toxicological effects of pharmaceutical active compounds on maize. Agriculture, Ecosystems and Environment, 2018, 258, 143-148.	2.5	35
121	Ecofriendly application of coconut coir (Cocos nucifera) extract for silk dyeing. Environmental Science and Pollution Research, 2022, 29, 564-572.	2.7	35
122	Polymer microgels for the stabilization of gold nanoparticles and their application in the catalytic reduction of nitroarenes in aqueous media. RSC Advances, 2022, 12, 5105-5117.	1.7	35
123	Biological activity of <i>Boswellia serrata</i> Roxb. oleo gum resin essential oil: effects of extraction by supercritical carbon dioxide and traditional methods. International Journal of Food Properties, 2018, 21, 808-820.	1.3	34
124	Effect of soil amendments on trace element-mediated oxidative stress in plants: Meta-analysis and mechanistic interpretations. Journal of Hazardous Materials, 2021, 407, 124881.	6.5	34
125	Airborne foliar transfer of particular metals in Lactuca sativa L.: translocation, phytotoxicity, and bioaccessibility. Environmental Science and Pollution Research, 2019, 26, 20064-20078.	2.7	33
126	Comparison of HeNe laser and sinusoidal non-uniform magnetic field seed pre-sowing treatment effect on Glycine max (Var 90-I) germination, growth and yield. Journal of Photochemistry and Photobiology B: Biology, 2017, 166, 212-219.	1.7	32

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127	Exogenous silicon and hydrogen sulfide alleviates the simultaneously occurring drought stress and leaf rust infection in wheat. <i>Plant Physiology and Biochemistry</i> , 2021, 166, 558-571.	2.8	31
128	Synthesis, characterization, semi-empirical study, and biological activities of organotin(IV) complexes with cyclohexylcarbamodithioic acid as biological active ligand. <i>Journal of Coordination Chemistry</i> , 2012, 65, 572-590.	0.8	30
129	Development of protein, dietary fiber, and micronutrient enriched extruded corn snacks. <i>Journal of Texture Studies</i> , 2017, 48, 221-230.	1.1	30
130	Residues of endosulfan in cotton growing area of Vehari, Pakistan: an assessment of knowledge and awareness of pesticide use and health risks. <i>Environmental Science and Pollution Research</i> , 2019, 26, 20079-20091.	2.7	29
131	Unrevealing arsenic and lead toxicity and antioxidant response in spinach: a human health perspective. <i>Environmental Geochemistry and Health</i> , 2022, 44, 487-496.	1.8	29
132	Arsenic tolerance and phytoremediation potential of <i>Conocarpus erectus</i> L. and <i>Populus deltoides</i> L. <i>International Journal of Phytoremediation</i> , 2017, 19, 985-991.	1.7	28
133	Cadmium tolerance and phytoremediation potential of acacia (<i>Acacia nilotica</i> L.) under salinity stress. <i>International Journal of Phytoremediation</i> , 2018, 20, 739-746.	1.7	28
134	Risk assessment of potentially toxic metal(loid)s in <i>Vigna radiata</i> L. under wastewater and freshwater irrigation. <i>Chemosphere</i> , 2021, 265, 129124.	4.2	28
135	Impact of reactive oxygen species on antioxidant capacity of male reproductive system. <i>International Journal of Immunopathology and Pharmacology</i> , 2016, 29, 421-425.	1.0	27
136	Attribution of runoff change in the alpine basin: a case study of the Heihe Upstream Basin, China. <i>Hydrological Sciences Journal</i> , 2017, 62, 1013-1028.	1.2	27
137	Composting of municipal solid waste by different methods improved the growth of vegetables and reduced the health risks of cadmium and lead. <i>Environmental Science and Pollution Research</i> , 2019, 26, 5463-5474.	2.7	27
138	Identifying the Annual and Seasonal Trends of Hydrological and Climatic Variables in the Indus Basin Pakistan. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2021, 57, 191-205.	1.3	27
139	Biocompatibility and microscopic evaluation of polyurethane-poly(methyl methacrylate)-titanium dioxide based composites for dental applications. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	26
140	Application of a Dynamic Clustered Bayesian Model Averaging (DCBA) Algorithm for Merging Multisatellite Precipitation Products over Pakistan. <i>Journal of Hydrometeorology</i> , 2020, 21, 17-37.	0.7	25
141	Compositional and health risk assessment of drinking water from health facilities of District Vehari, Pakistan. <i>Environmental Geochemistry and Health</i> , 2020, 42, 2425-2437.	1.8	25
142	Anthropogenic Effects of Coal Mining on Ecological Resources of the Central Indus Basin, Pakistan. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1255.	1.2	25
143	Antioxidant and Antipathogenic Activities of Citrus Peel Oils. <i>Journal of Essential Oil-bearing Plants: JEOP</i> , 2012, 15, 972-979.	0.7	24
144	Tracing trends in plant physiology and biochemistry: Need of databases from genetic to kingdom level. <i>Plant Physiology and Biochemistry</i> , 2018, 127, 630-635.	2.8	24

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145	Synthesis and structure-activity relationship of tyrosinase inhibiting novel bi-heterocyclic acetamides: Mechanistic insights through enzyme inhibition, kinetics and computational studies. <i>Bioorganic Chemistry</i> , 2019, 86, 459-472.	2.0	24
146	Synthesis, Characterization, Semiempirical and Biological Activities of Organotin(IV) Carboxylates with 4-Piperidinecarboxylic Acid. <i>Bioinorganic Chemistry and Applications</i> , 2014, 2014, 1-11.	1.8	23
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