

Balal Yousaf

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

2,714
citations

32
h-index

48
g-index

102
ext. papers

3,696
ext. citations

8
avg, IF

5.71
L-index

#	Paper	IF	Citations
98	Contrasting effects of biochar, compost and farm manure on alleviation of nickel toxicity in maize (<i>Zea mays</i> L.) in relation to plant growth, photosynthesis and metal uptake. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 133, 218-25	7	149
97	Pollution characteristics and human health risks of potentially (eco)toxic elements (PTEs) in road dust from metropolitan area of Hefei, China. <i>Chemosphere</i> , 2017 , 181, 111-121	8.4	115
96	Transformation pathways and fate of engineered nanoparticles (ENPs) in distinct interactive environmental compartments: A review. <i>Environment International</i> , 2020 , 138, 105646	12.9	112
95	Recent advances in carbon-based renewable adsorbent for selective carbon dioxide capture and separation-A review. <i>Journal of Cleaner Production</i> , 2020 , 242, 118409	10.3	101
94	Silicon occurrence, uptake, transport and mechanisms of heavy metals, minerals and salinity enhanced tolerance in plants with future prospects: A review. <i>Journal of Environmental Management</i> , 2016 , 183, 521-529	7.9	100
93	Silicon nanoparticles enhanced the growth and reduced the cadmium accumulation in grains of wheat (<i>Triticum aestivum</i> L.). <i>Plant Physiology and Biochemistry</i> , 2019 , 140, 1-8	5.4	95
92	Simultaneous functionalization and magnetization of biochar via NH ₃ ambient pyrolysis for efficient removal of Cr (VI). <i>Chemosphere</i> , 2018 , 208, 712-721	8.4	80
91	Investigating the potential influence of biochar and traditional organic amendments on the bioavailability and transfer of Cd in the soil-plant system. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	79
90	Ecological footprint of Rawalpindi; Pakistan's first footprint analysis from urbanization perspective. <i>Journal of Cleaner Production</i> , 2018 , 170, 362-368	10.3	72
89	The importance of evaluating metal exposure and predicting human health risks in urban-periurban environments influenced by emerging industry. <i>Chemosphere</i> , 2016 , 150, 79-89	8.4	70
88	Systematic investigation on combustion characteristics and emission-reduction mechanism of potentially toxic elements in biomass- and biochar-coal co-combustion systems. <i>Applied Energy</i> , 2017 , 208, 142-157	10.7	63
87	A systematic review on global pollution status of particulate matter-associated potential toxic elements and health perspectives in urban environment. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 1131-1162	4.7	61
86	Investigating the biochar effects on C-mineralization and sequestration of carbon in soil compared with conventional amendments using the stable isotope (¹³ C) approach. <i>GCB Bioenergy</i> , 2017 , 9, 1085-1099	5.6	56
85	Bioavailability evaluation, uptake of heavy metals and potential health risks via dietary exposure in urban-industrial areas. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 22443-22453	5.1	53
84	Regional and sectoral assessment on climate-change in Pakistan: Social norms and indigenous perceptions on climate-change adaptation and mitigation in relation to global context. <i>Journal of Cleaner Production</i> , 2018 , 200, 791-808	10.3	51
83	In-situ FTIR study of reaction mechanism and chemical kinetics of a Xundian lignite during non-isothermal low temperature pyrolysis. <i>Energy Conversion and Management</i> , 2016 , 124, 180-188	10.6	49
82	Contrasting effects of operating conditions and biomass particle size on bulk characteristics and surface chemistry of rice husk derived-biochars. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 134, 281-292	6	48

81	Vanadium toxicity in chickpea (<i>Cicer arietinum</i> L.) grown in red soil: Effects on cell death, ROS and antioxidative systems. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 158, 139-144	7	47
80	Farmyard manure alone and combined with immobilizing amendments reduced cadmium accumulation in wheat and rice grains grown in field irrigated with raw effluents. <i>Chemosphere</i> , 2018 , 199, 468-476	8.4	46
79	A comprehensive review on environmental transformation of selenium: recent advances and research perspectives. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 1003-1035	4.7	44
78	Developmental selenium exposure and health risk in daily foodstuffs: A systematic review and meta-analysis. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 149, 291-306	7	43
77	Operational control on environmental safety of potentially toxic elements during thermal conversion of metal-accumulator invasive ragweed to biochar. <i>Journal of Cleaner Production</i> , 2018 , 195, 458-469	10.3	42
76	Combustion characteristics and retention-emission of selenium during co-firing of torrefied biomass and its blends with high ash coal. <i>Bioresource Technology</i> , 2017 , 245, 73-80	11	41
75	Synergistic effects and mechanisms of hydroxyl radical-mediated oxidative degradation of sulfamethoxazole by Fe(II)-EDTA catalyzed calcium peroxide: Implications for remediation of antibiotic-contaminated water. <i>Chemical Engineering Journal</i> , 2018 , 353, 80-91	14.7	39
74	A comprehensive review of climate change impacts, adaptation, and mitigation on environmental and natural calamities in Pakistan. <i>Environmental Monitoring and Assessment</i> , 2019 , 192, 48	3.1	38
73	One-step synthesis of N-doped metal/biochar composite using NH ₃ -ambiance pyrolysis for efficient degradation and mineralization of Methylene Blue. <i>Journal of Environmental Sciences</i> , 2019 , 78, 29-41	6.4	37
72	Characterizing pollution indices and children health risk assessment of potentially toxic metal(oid)s in school dust of Lahore, Pakistan. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 190, 110059	7	36
71	Comparison of antioxidant enzyme activities and DNA damage in chickpea (<i>Cicer arietinum</i> L.) genotypes exposed to vanadium. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 19787-96	5.1	35
70	Operating conditions-induced changes in product yield and characteristics during thermal-conversion of peanut shell to biochar in relation to economic analysis. <i>Journal of Cleaner Production</i> , 2018 , 193, 479-490	10.3	34
69	Effects of biochar on uptake, acquisition and translocation of silver nanoparticles in rice (<i>Oryza sativa</i> L.) in relation to growth, photosynthetic traits and nutrients displacement. <i>Environmental Pollution</i> , 2019 , 250, 728-736	9.3	33
68	Interactive effects of vanadium and phosphorus on their uptake, growth and heat shock proteins in chickpea genotypes under hydroponic conditions. <i>Environmental and Experimental Botany</i> , 2017 , 134, 72-81	5.9	33
67	Emission characterization and $\delta^{13}\text{C}$ values of parent PAHs and nitro-PAHs in size-segregated particulate matters from coal-fired power plants. <i>Journal of Hazardous Materials</i> , 2016 , 318, 487-496	12.8	32
66	Contrasting effects of biochar and hydrothermally treated coal gangue on leachability, bioavailability, speciation and accumulation of heavy metals by rapeseed in copper mine tailings. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 191, 110244	7	31
65	Comparative effects of biochar-nanosheets and conventional organic-amendments on health risks abatement of potentially toxic elements via consumption of wheat grown on industrially contaminated-soil. <i>Chemosphere</i> , 2018 , 192, 161-170	8.4	30
64	Hydrothermal dewatering of low-rank coals: Influence on the properties and combustion characteristics of the solid products. <i>Energy</i> , 2018 , 158, 1192-1203	7.9	30

63	Synergistic effects of biochar and processed fly ash on bioavailability, transformation and accumulation of heavy metals by maize (<i>Zea mays</i> L.) in coal-mining contaminated soil. <i>Chemosphere</i> , 2020 , 240, 124845	8.4	30
62	Environmental transformation and nano-toxicity of engineered nano-particles (ENPs) in aquatic and terrestrial organisms. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 50, 2523-2581	11.1	27
61	Emission characteristics for gaseous- and size-segregated particulate PAHs in coal combustion flue gas from circulating fluidized bed (CFB) boiler. <i>Environmental Pollution</i> , 2018 , 238, 581-589	9.3	26
60	Investigating the uptake and acquisition of potentially toxic elements in plants and health risks associated with the addition of fresh biowaste amendments to industrially contaminated soil. <i>Land Degradation and Development</i> , 2017 , 28, 2596-2607	4.4	26
59	Evaluating the health risks of potentially toxic elements through wheat consumption in multi-industrial metropolis of Faisalabad, Pakistan. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 26646-26657	5.1	25
58	Efficiency of various silicon rich amendments on growth and cadmium accumulation in field grown cereals and health risk assessment. <i>Chemosphere</i> , 2020 , 244, 125481	8.4	21
57	Synergistic effects of low-/medium-vacuum carbonization on physico-chemical properties and stability characteristics of biochars. <i>Chemical Engineering Journal</i> , 2019 , 373, 44-57	14.7	20
56	Evaluation of floor-wise pollution status and deposition behavior of potentially toxic elements and nanoparticles in air conditioner dust during urbanistic development. <i>Journal of Hazardous Materials</i> , 2019 , 365, 186-195	12.8	20
55	Immobilization of Pb and Cu by organic and inorganic amendments in contaminated soil. <i>Geoderma</i> , 2021 , 385, 114803	6.7	20
54	Compositional characteristics of black-carbon and nanoparticles in air-conditioner dust from an inhabitable industrial metropolis. <i>Journal of Cleaner Production</i> , 2018 , 180, 34-42	10.3	19
53	Enhanced removal of hexavalent chromium from aqueous media using a highly stable and magnetically separable rosin-biochar-coated TiO@C nanocomposite.. <i>RSC Advances</i> , 2018 , 8, 25983-25998	3.7	19
52	A review of the biogeochemical controls on the occurrence and distribution of polycyclic aromatic compounds (PACs) in coals. <i>Earth-Science Reviews</i> , 2017 , 171, 400-418	10.2	19
51	Synthesis, characteristics and mechanistic insight into the clays and clay minerals-biochar surface interactions for contaminants removal-A review. <i>Journal of Cleaner Production</i> , 2021 , 310, 127548	10.3	19
50	Biochar-assisted transformation of engineered-cerium oxide nanoparticles: Effect on wheat growth, photosynthetic traits and cerium accumulation. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 187, 109845	7	18
49	A comprehensive review of sectorial contribution towards greenhouse gas emissions and progress in carbon capture and storage in Pakistan 2019 , 9, 617-636		17
48	Enrichment of Bi-Be-Mo-Cd-Pb-Nb-Ga, REEs and Y in the Permian coals of the Huainan Coalfield, Anhui, China. <i>Ore Geology Reviews</i> , 2018 , 95, 431-455	3.2	17
47	Biochar-induced immobilization and transformation of silver-nanoparticles affect growth, intracellular-radicles generation and nutrients assimilation by reducing oxidative stress in maize. <i>Journal of Hazardous Materials</i> , 2020 , 390, 121976	12.8	17
46	A comprehensive review of biogeochemical distribution and fractionation of lead isotopes for source tracing in distinct interactive environmental compartments. <i>Science of the Total Environment</i> , 2020 , 719, 135658	10.2	17

45	Bisphenol A exposure and healing effects of <i>Adiantum capillus-veneris</i> L. plant extract (APE) in bisphenol A-induced reproductive toxicity in albino rats. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 11645-57	5.1	16
44	Bamboo-biochar and hydrothermally treated-coal mediated geochemical speciation, transformation and uptake of Cd, Cr, and Pb in a polymetal(loid)s-contaminated mine soil. <i>Environmental Pollution</i> , 2020 , 265, 114816	9.3	16
43	Mechanistic insights into the reactive radicals-assisted degradation of sulfamethoxazole via calcium peroxide activation by manganese-incorporated iron oxide-graphene nanocomposite: Formation of radicals and degradation pathway. <i>Chemical Engineering Journal</i> , 2020 , 384, 123360	14.7	16
42	Emission sources and full spectrum of health impacts of black carbon associated polycyclic aromatic hydrocarbons (PAHs) in urban environment: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 857-896	11.1	15
41	Formation of nitrogen functionalities in biochar materials and their role in the mitigation of hazardous emerging organic pollutants from wastewater. <i>Journal of Hazardous Materials</i> , 2021 , 416, 126131	12.8	15
40	Enrichment and distribution of trace elements in Padhrar, Thar and Kotli coals from Pakistan: Comparison to coals from China with an emphasis on the elements distribution. <i>Journal of Geochemical Exploration</i> , 2018 , 185, 153-169	3.8	14
39	Investigating the drinking and surface water quality and associated health risks in a semi-arid multi-industrial metropolis (Faisalabad), Pakistan. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 20853-20865	5.1	13
38	Evaluation of potentially toxic elements (PTEs) vertical distribution in sediments of Gafsa-Metlaoui mining basin (Southwestern Tunisia) using geochemical and multivariate statistical analysis approaches. <i>Environmental Earth Sciences</i> , 2019 , 78, 1	2.9	13
37	Morphological and physico-biochemical characterization of various tomato cultivars in a simplified soilless media. <i>Annals of Agricultural Sciences</i> , 2017 , 62, 139-143	6.4	11
36	Recent trends in advanced oxidation process-based degradation of erythromycin: Pollution status, eco-toxicity and degradation mechanism in aquatic ecosystems. <i>Science of the Total Environment</i> , 2021 , 772, 145389	10.2	11
35	Biomonitoring and health risks assessment of trace elements in various age- and gender-groups exposed to road dust in habitable urban-industrial areas of Hefei, China. <i>Environmental Pollution</i> , 2019 , 244, 809-817	9.3	11
34	Divisional disparities on climate change adaptation and mitigation in Punjab, Pakistan: local perceptions, vulnerabilities, and policy implications. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 31491-31507	5.1	10
33	Interactive assessment of lignite and bamboo-biochar for geochemical speciation, modulation and uptake of Cu and other heavy metals in the copper mine tailing. <i>Science of the Total Environment</i> , 2021 , 779, 146536	10.2	10
32	A field study investigating the potential use of phosphorus combined with organic amendments on cadmium accumulation by wheat and subsequent rice. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	10
31	Effect of pyridine extraction on the pyrolysis of a perhydrous coal based on in-situ FTIR analysis. <i>Journal of the Energy Institute</i> , 2019 , 92, 428-437	5.7	8
30	Environmental emission, fate and transformation of microplastics in biotic and abiotic compartments: Global status, recent advances and future perspectives. <i>Science of the Total Environment</i> , 2021 , 791, 148422	10.2	8
29	Enthralling the impact of engineered nanoparticles on soil microbiome: A concentric approach towards environmental risks and cogitation. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 222, 112459	7	8
28	Nickel in soil and water: Sources, biogeochemistry, and remediation using biochar. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126421	12.8	8

27	Vulnerability of municipal solid waste: An emerging threat to aquatic ecosystems. <i>Chemosphere</i> , 2022 , 287, 132223	8.4	8
26	Estimating the pollution characteristics and health risks of potentially toxic metal(loid)s in urban-industrial soils in the Indus basin, Pakistan. <i>Environmental Monitoring and Assessment</i> , 2019 , 191, 748	3.1	7
25	An assessment of wastewater pollution, treatment efficiency and management in a semi-arid urban area of Pakistan. <i>Environmental Monitoring and Assessment</i> , 2017 , 177, 167-175		7
24	Novel investigation of pyrolysis mechanisms and kinetics for functional groups in biomass matrix. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 153, 111761	16.2	7
23	Health impacts of indoor air pollution from household solid fuel on children and women. <i>Journal of Hazardous Materials</i> , 2021 , 416, 126127	12.8	7
22	Health outcomes of road-traffic pollution among exposed roadside workers in Rawalpindi City, Pakistan. <i>Human and Ecological Risk Assessment (HERA)</i> , 2017 , 23, 1330-1339	4.9	6
21	Identification of the featured-element in fine road dust of cities with coal contamination by geochemical investigation and isotopic monitoring. <i>Environment International</i> , 2021 , 152, 106499	12.9	6
20	Biochar-mediated transformation of titanium dioxide nanoparticles concerning TiONPs-biochar interactions, plant traits and tissue accumulation to cell translocation. <i>Environmental Pollution</i> , 2021 , 270, 116077	9.3	6
19	Influence of hydrothermal treatment on selenium emission-reduction and transformation from low-ranked coal. <i>Journal of Cleaner Production</i> , 2020 , 267, 122070	10.3	5
18	Atmospheric emission of nitric oxide and processes involved in its biogeochemical transformation in terrestrial environment. <i>Environmental Science and Pollution Research</i> , 2016 , 1	5.1	5
17	Pollution characteristics, mechanism of toxicity and health effects of the ultrafine particles in the indoor environment: Current status and future perspectives. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-38	11.1	5
16	Understanding the synergy between N-doped ultra-microporous carbonaceous adsorbent and nitrogen functionalities for high performance of CO ₂ sorption. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104646	6.8	5
15	Decisive role of vacuum-assisted carbonization in valorization of lignin-enriched (<i>Juglans regia</i> -shell) biowaste. <i>Bioresource Technology</i> , 2021 , 323, 124541	11	5
14	Carbon fractionation and stable carbon isotopic fingerprint of road dusts near coal power plant with emphases on coal-related source apportionment. <i>Ecotoxicology and Environmental Safety</i> , 2020 , 202, 110888	7	4
13	Participation of civil society in decisions to mitigate environmental degradation in post-conflict societies: evidence from Somalia. <i>Journal of Environmental Planning and Management</i> , 2020 , 63, 1695-1715	2.8	3
12	In situ synthesis of micro-plastics embedded sewage-sludge co-pyrolyzed biochar: Implications for the remediation of Cr and Pb availability and enzymatic activities from the contaminated soil. <i>Journal of Cleaner Production</i> , 2021 , 302, 127005	10.3	3
11	Morpho-chemical characterization and source apportionment of potentially toxic metal(oid)s from school dust of second largest populous city of Pakistan. <i>Environmental Research</i> , 2021 , 196, 110427	7.9	3
10	Carbon dioxide activated biochar-clay mineral composite efficiently removes ciprofloxacin from contaminated water - Reveals an incubation study. <i>Journal of Cleaner Production</i> , 2022 , 332, 130079	10.3	2

9	Reply to Enrichment of Bi-Be-Mo-Cd-Pb-Nb-Ga, REEs and Y in the Permian coals of the Huainan Coalfield, Anhui, China: Discussion <i>Ore Geology Reviews</i> , 2018 , 102, 940-948	3.2	1
8	Occurrence, contamination evaluation and health risks of trace metals within soil, sediments and tailings in southern Tunisia. <i>International Journal of Environmental Science and Technology</i> , 1	3.3	1
7	Phyto-mediated photocatalysis: a critical review of in-depth base to reactive radical generation for erythromycin degradation.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	1
6	Insights into the synthesis and application of biochar assisted graphene-based materials in antibiotic remediation. <i>Journal of Cleaner Production</i> , 2022 , 361, 132211	10.3	1
5	Efficacy of rice husk biochar and compost amendments on the translocation, bioavailability, and heavy metals speciation in contaminated soil: Role of free radical production in maize (<i>Zea mays</i> L.). <i>Journal of Cleaner Production</i> , 2022 , 330, 129805	10.3	0
4	Geochemical fractionation and spectroscopic fingerprinting for evaluation of the environmental transformation of potentially toxic metal(oid)s in surface-subsurface soils. <i>Environmental Geochemistry and Health</i> , 2021 , 43, 4329-4343	4.7	0
3	Morphochemical investigation on the enrichment and transformation of hazardous elements in ash from waste incineration plants.. <i>Science of the Total Environment</i> , 2022 , 154490	10.2	0
2	Modified and pristine biochars for remediation of chromium contamination in soil and aquatic systems.. <i>Chemosphere</i> , 2022 , 134942	8.4	0
1	Biochar for remediation of alkaline soils contaminated with toxic elements 2022 , 223-240		