

# Mahtab Ahmad

## List of Publications by Year in descending order

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48  
papers

8,436  
citations

101543

36  
h-index

206112

48  
g-index

48  
all docs

48  
docs citations

48  
times ranked

7202  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochar as a sorbent for contaminant management in soil and water: A review. <i>Chemosphere</i> , 2014, 99, 19-33.	8.2	3,175
2	Effects of pyrolysis temperature on soybean stover- and peanut shell-derived biochar properties and TCE adsorption in water. <i>Bioresource Technology</i> , 2012, 118, 536-544.	9.6	988
3	Trichloroethylene adsorption by pine needle biochars produced at various pyrolysis temperatures. <i>Bioresource Technology</i> , 2013, 143, 615-622.	9.6	319
4	Enhanced sulfamethazine removal by steam-activated invasive plant-derived biochar. <i>Journal of Hazardous Materials</i> , 2015, 290, 43-50.	12.4	299
5	Pyrolysis condition affected sulfamethazine sorption by tea waste biochars. <i>Bioresource Technology</i> , 2014, 166, 303-308.	9.6	279
6	Effects of soil dilution and amendments (mussel shell, cow bone, and biochar) on Pb availability and phytotoxicity in military shooting range soil. <i>Ecotoxicology and Environmental Safety</i> , 2012, 79, 225-231.	6.0	276
7	Speciation and phytoavailability of lead and antimony in a small arms range soil amended with mussel shell, cow bone and biochar: EXAFS spectroscopy and chemical extractions. <i>Chemosphere</i> , 2014, 95, 433-441.	8.2	230
8	Biochar-induced changes in soil properties affected immobilization/mobilization of metals/metalloids in contaminated soils. <i>Journal of Soils and Sediments</i> , 2017, 17, 717-730.	3.0	211
9	Effects of natural and calcined oyster shells on Cd and Pb immobilization in contaminated soils. <i>Environmental Earth Sciences</i> , 2010, 61, 1301-1308.	2.7	178
10	Eggshell and coral wastes as low cost sorbents for the removal of Pb <sup>2+</sup> , Cd <sup>2+</sup> and Cu <sup>2+</sup> from aqueous solutions. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 198-204.	5.8	167
11	Equilibrium and kinetic mechanisms of woody biochar on aqueous glyphosate removal. <i>Chemosphere</i> , 2016, 144, 2516-2521.	8.2	158
12	Immobilization of lead in a Korean military shooting range soil using eggshell waste: An integrated mechanistic approach. <i>Journal of Hazardous Materials</i> , 2012, 209-210, 392-401.	12.4	149
13	Impact of soybean stover- and pine needle-derived biochars on Pb and As mobility, microbial community, and carbon stability in a contaminated agricultural soil. <i>Journal of Environmental Management</i> , 2016, 166, 131-139.	7.8	144
14	Immobilization of lead in contaminated firing range soil using biochar. <i>Environmental Science and Pollution Research</i> , 2013, 20, 8464-8471.	5.3	122
15	Carbon mineralization and nutrient availability in calcareous sandy soils amended with woody waste biochar. <i>Chemosphere</i> , 2015, 138, 67-73.	8.2	113
16	The role of biochar, natural iron oxides, and nanomaterials as soil amendments for immobilizing metals in shooting range soil. <i>Environmental Geochemistry and Health</i> , 2015, 37, 931-942.	3.4	97
17	Effectiveness of zinc application to minimize cadmium toxicity and accumulation in wheat ( <i>Triticum</i> ) Tj ETQq1 1 0.784314 rgBT /Overbo 2.7 894	2.7	894
18	Modeling adsorption kinetics of trichloroethylene onto biochars derived from soybean stover and peanut shell wastes. <i>Environmental Science and Pollution Research</i> , 2013, 20, 8364-8373.	5.3	92

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19	Mechanisms of antimony adsorption onto soybean stover-derived biochar in aqueous solutions. <i>Journal of Environmental Management</i> , 2015, 151, 443-449.	7.8	92
20	Production and use of biochar from buffalo weed ( <i>Ambrosia trifida</i> L.) for trichloroethylene removal from water. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 150-157.	3.2	89
21	Effects of biochar, cow bone, and eggshell on Pb availability to maize in contaminated soil irrigated with saline water. <i>Environmental Earth Sciences</i> , 2014, 71, 1289-1296.	2.7	88
22	Effects of Lime-Based Waste Materials on Immobilization and Phytoavailability of Cadmium and Lead in Contaminated Soil. <i>Clean - Soil, Air, Water</i> , 2013, 41, 1235-1241.	1.1	73
23	Date palm waste-derived biochar composites with silica and zeolite: synthesis, characterization and implication for carbon stability and recalcitrant potential. <i>Environmental Geochemistry and Health</i> , 2019, 41, 1687-1704.	3.4	73
24	Mechanistic interaction of ciprofloxacin on zeolite modified seaweed ( <i>Sargassum crassifolium</i> ) derived biochar: Kinetics, isotherm and thermodynamics. <i>Chemosphere</i> , 2021, 281, 130676.	8.2	69
25	Toxicity of synthetic chelators and metal availability in poultry manure amended Cd, Pb and As contaminated agricultural soil. <i>Journal of Hazardous Materials</i> , 2013, 262, 1022-1030.	12.4	62
26	Adsorption and thermodynamic mechanisms of manganese removal from aqueous media by biowaste-derived biochars. <i>Journal of Molecular Liquids</i> , 2018, 266, 373-380.	4.9	62
27	An assessment of the utilization of waste resources for the immobilization of Pb and Cu in the soil from a Korean military shooting range. <i>Environmental Earth Sciences</i> , 2012, 67, 1023-1031.	2.7	57
28	A remediation approach to chromium-contaminated water and soil using engineered biochar derived from peanut shell. <i>Environmental Research</i> , 2022, 204, 112125.	7.5	57
29	Changes of biochemical properties and heavy metal bioavailability in soil treated with natural liming materials. <i>Environmental Earth Sciences</i> , 2013, 70, 3411-3420.	2.7	55
30	Role of chelating agents on release kinetics of metals and their uptake by maize from chromated copper arsenate-contaminated soil. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 747-755.	2.2	55
31	Chemically modified biochar produced from conocarpus waste increases NO <sub>3</sub> removal from aqueous solutions. <i>Environmental Geochemistry and Health</i> , 2016, 38, 511-521.	3.4	55
32	Sorption of Cr(III) from aqueous media via naturally functionalized microporous biochar: Mechanistic study. <i>Microchemical Journal</i> , 2019, 144, 242-253.	4.5	51
33	Effects of natural and calcined poultry waste on Cd, Pb and As mobility in contaminated soil. <i>Environmental Earth Sciences</i> , 2013, 69, 11-20.	2.7	45
34	Inhibitory Effect of Veterinary Antibiotics on Denitrification in Groundwater: A Microcosm Approach. <i>Scientific World Journal</i> , The, 2014, 2014, 1-7.	2.1	42
35	Effects of Synthetic Chelators and Low-Molecular-Weight Organic Acids on Chromium, Copper, and Arsenic Uptake and Translocation in Maize ( <i>Zea mays</i> L.). <i>Soil Science</i> , 2012, 177, 655-663.	0.9	41
36	Bioenergy-derived waste biochar for reducing mobility, bioavailability, and phytotoxicity of chromium in anthropized tannery soil. <i>Journal of Soils and Sediments</i> , 2017, 17, 731-740.	3.0	38

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37	Sorption of Polycyclic Aromatic Hydrocarbons (PAHs) to Lignin: Effects of Hydrophobicity and Temperature. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2014, 93, 84-88.	2.7	37
38	High-efficiency remediation of cadmium (Cd <sup>2+</sup> ) from aqueous solution using poultry manure <sup>2+</sup> and farmyard manure <sup>2+</sup> -derived biochars. <i>Separation Science and Technology</i> , 2016, 51, 2307-2317.	2.5	37
39	Design and characterization of a biomass template/SnO <sub>2</sub> nanocomposite for enhanced adsorption of 2,4-dichlorophenol. <i>Environmental Research</i> , 2020, 181, 108955.	7.5	35
40	Effectiveness of the engineered pinecone-derived biochar for the removal of fluoride from water. <i>Environmental Research</i> , 2022, 212, 113540.	7.5	29
41	Biochars <sup>TM</sup> adsorption performance towards moxifloxacin and ofloxacin in aqueous solution: Role of pyrolysis temperature and biomass type. <i>Environmental Technology and Innovation</i> , 2021, 24, 101912.	6.1	28
42	Influence of bioenergy waste biochar on proton- and ligand-promoted release of Pb and Cu in a shooting range soil. <i>Science of the Total Environment</i> , 2018, 625, 547-554.	8.0	25
43	Abstraction of nitrates and phosphates from water by sawdust- and rice husk-derived biochars: Their potential as N- and P-loaded fertilizer for plant productivity in nutrient deficient soil. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 155, 105073.	5.5	16
44	Adsorptive Removal of Trichloroethylene in Water by Crop Residue Biochars Pyrolyzed at Contrasting Temperatures: Continuous Fixed-Bed Experiments. <i>Journal of Chemistry</i> , 2015, 2015, 1-6.	1.9	11
45	Arsenic release in contaminated soil amended with unmodified and modified biochars derived from sawdust and rice husk. <i>Journal of Soils and Sediments</i> , 2020, 20, 3358-3367.	3.0	11
46	Oxidative Photodegradation of Pyrene and Fluoranthene by Fe-Based and Zn-Based Fenton Reagents. <i>Sustainability</i> , 2017, 9, 870.	3.2	7
47	Effects of natural and calcined oyster shells on antimony solubility in shooting range soil. <i>Journal of the Korean Society for Applied Biological Chemistry</i> , 2013, 56, 461-464.	0.9	3
48	Carbonaceous resin capsule for vapor-phase monitoring of volatile hydrocarbons in soil: partitioning and kinetic model verification. <i>Environmental Geochemistry and Health</i> , 2013, 35, 715-725.	3.4	2