

Adel Rabie A Usman

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94
papers

4,179
citations

39
h-index

63
g-index

101
ext. papers

4,936
ext. citations

4.8
avg, IF

5.84
L-index

#	Paper	IF	Citations
94	Pyrolysis temperature induced changes in characteristics and chemical composition of biochar produced from conocarpus wastes. <i>Bioresource Technology</i> , 2013 , 131, 374-9	11	539
93	Effects of rapeseed residue on lead and cadmium availability and uptake by rice plants in heavy metal contaminated paddy soil. <i>Chemosphere</i> , 2011 , 85, 677-82	8.4	168
92	The relative adsorption selectivities of Pb, Cu, Zn, Cd and Ni by soils developed on shale in New Valley, Egypt. <i>Geoderma</i> , 2008 , 144, 334-343	6.7	163
91	Biochar production from date palm waste: Charring temperature induced changes in composition and surface chemistry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 115, 392-400	6	152
90	Conocarpus biochar as a soil amendment for reducing heavy metal availability and uptake by maize plants. <i>Saudi Journal of Biological Sciences</i> , 2015 , 22, 503-11	4	143
89	Eggshell and coral wastes as low cost sorbents for the removal of Pb ²⁺ , Cd ²⁺ and Cu ²⁺ from aqueous solutions. <i>Journal of Industrial and Engineering Chemistry</i> , 2012 , 18, 198-204	6.3	137
88	Heavy metal contamination in sediments and mangroves from the coast of Red Sea: <i>Avicennia marina</i> as potential metal bioaccumulator. <i>Ecotoxicology and Environmental Safety</i> , 2013 , 97, 263-70	7	135
87	Impact of biochar properties on soil conditions and agricultural sustainability: A review. <i>Land Degradation and Development</i> , 2018 , 29, 2124-2161	4.4	118
86	Equilibrium and kinetic mechanisms of woody biochar on aqueous glyphosate removal. <i>Chemosphere</i> , 2016 , 144, 2516-21	8.4	115
85	Application of eggshell waste for the immobilization of cadmium and lead in a contaminated soil. <i>Environmental Geochemistry and Health</i> , 2011 , 33 Suppl 1, 31-9	4.7	97
84	Carbon mineralization and nutrient availability in calcareous sandy soils amended with woody waste biochar. <i>Chemosphere</i> , 2015 , 138, 67-73	8.4	86
83	Soil pollution assessment and identification of hyperaccumulating plants in chromated copper arsenate (CCA) contaminated sites, Korea. <i>Chemosphere</i> , 2012 , 87, 872-8	8.4	82
82	Effect of microbial inoculation and EDTA on the uptake and translocation of heavy metal by corn and sunflower. <i>Chemosphere</i> , 2009 , 76, 893-9	8.4	81
81	Conocarpus Biochar Induces Changes in Soil Nutrient Availability and Tomato Growth Under Saline Irrigation. <i>Pedosphere</i> , 2016 , 26, 27-38	5	78
80	Effect of Conocarpus Biochar Application on the Hydraulic Properties of a Sandy Loam Soil. <i>Soil Science</i> , 2013 , 178, 165-173	0.9	78
79	Mechanistic modeling of glyphosate interaction with rice husk derived engineered biochar. <i>Microporous and Mesoporous Materials</i> , 2016 , 225, 280-288	5.3	77
78	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	2.9	76

77	Phosphorus-loaded biochar changes soil heavy metals availability and uptake potential of maize (<i>Zea mays</i> L.) plants. <i>Chemosphere</i> , 2018 , 194, 327-339	8.4	75
76	Effect of Clay Minerals on Immobilization of Heavy Metals and Microbial Activity in a Sewage Sludge-Contaminated Soil (8 pp). <i>Journal of Soils and Sediments</i> , 2005 , 5, 245-252	3.4	74
75	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	1.6	61
74	Heavy metals in the soils of the Arabian Gulf coast affected by industrial activities: analysis and assessment using enrichment factor and multivariate analysis. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 1691-1703	1.8	60
73	Dynamics of Organic C Mineralization and the Mobile Fraction of Heavy Metals in a Calcareous Soil Incubated with Organic Wastes. <i>Water, Air, and Soil Pollution</i> , 2004 , 158, 401-418	2.6	60
72	A critical review on organic micropollutants contamination in wastewater and removal through carbon nanotubes. <i>Journal of Environmental Management</i> , 2019 , 246, 214-228	7.9	56
71	Biochar, a potential hydroponic growth substrate, enhances the nutritional status and growth of leafy vegetables. <i>Journal of Cleaner Production</i> , 2017 , 156, 581-588	10.3	55
70	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	2.9	53
69	Remediation of a soil contaminated with heavy metals by immobilizing compounds. <i>Journal of Plant Nutrition and Soil Science</i> , 2006 , 169, 205-212	2.3	48
68	Date palm biochar-polymer composites: An investigation of electrical, mechanical, thermal and rheological characteristics. <i>Science of the Total Environment</i> , 2018 , 619-620, 311-318	10.2	48
67	Performance of dry water- and porous carbon-based sorbents for carbon dioxide capture. <i>Environmental Research</i> , 2019 , 174, 69-79	7.9	47
66	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, 1022-30	12.8	47
65	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, 747-55	2.6	46
64	Biochar composites with nano zerovalent iron and eggshell powder for nitrate removal from aqueous solution with coexisting chloride ions. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 25757-25771	5.1	45
63	Effect of Sodium Chloride-induced Salinity on Phyto-availability and Speciation of Cd in Soil Solution. <i>Water, Air, and Soil Pollution</i> , 2007 , 185, 43-51	2.6	45
62	Effect of Immobilizing Substances and Salinity on Heavy Metals Availability to Wheat Grown on Sewage Sludge-Contaminated Soil. <i>Soil and Sediment Contamination</i> , 2005 , 14, 329-344	3.2	45
61	Effect of Corn Residue Biochar on the Hydraulic Properties of Sandy Loam Soil. <i>Sustainability</i> , 2017 , 9, 266	3.6	43
60	Sorption Process of Date Palm Biochar for Aqueous Cd (II) Removal: Efficiency and Mechanisms. <i>Water, Air, and Soil Pollution</i> , 2016 , 227, 1	2.6	42

59	Chemically modified biochar produced from conocarpus waste increases NO ₃ removal from aqueous solutions. <i>Environmental Geochemistry and Health</i> , 2016 , 38, 511-21	4.7	42
58	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
57	Competitive sorption and availability of coexisting heavy metals in mining-contaminated soil: Contrasting effects of mesquite and fishbone biochars. <i>Environmental Research</i> , 2020 , 181, 108846	7.9	40
56	Effects of conocarpus biochar on hydraulic properties of calcareous sandy soil: influence of particle size and application depth. <i>Archives of Agronomy and Soil Science</i> , 2017 , 63, 185-197	2	39
55	Engineered biochar composites with zeolite, silica, and nano-zerovalent iron for the efficient scavenging of chlortetracycline from aqueous solutions. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 15136-15152	5.1	38
54	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	2.9	38
53	Chemically Modified Biochar Produced from Conocarpus Wastes: An Efficient Sorbent for Fe(II) Removal from Acidic Aqueous Solutions. <i>Adsorption Science and Technology</i> , 2013 , 31, 625-640	3.6	37
52	Changes of biochemical properties and heavy metal bioavailability in soil treated with natural liming materials. <i>Environmental Earth Sciences</i> , 2013 , 70, 3411-3420	2.9	36
51	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	4.7	34
50	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	3.4	32
49	Dynamics of CO ₂ Emission and Biochemical Properties of a Sandy Calcareous Soil Amended with Conocarpus Waste and Biochar. <i>Pedosphere</i> , 2015 , 25, 46-56	5	32
48	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	31
47	Date palm waste biochars alter a soil respiration, microbial biomass carbon, and heavy metal mobility in contaminated mined soil. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 1705-1722	4.7	27
46	Effect of clay minerals on extractability of heavy metals and sewage sludge mineralization in soil. <i>Chemistry and Ecology</i> , 2004 , 20, 123-135	2.3	24
45	Immobilization and mitigation of chromium toxicity in aqueous solutions and tannery waste-contaminated soil using biochar and polymer-modified biochar. <i>Chemosphere</i> , 2021 , 266, 129198	8.4	23
44	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	10.2	21
43	Aging Effects of Organic and Inorganic Fertilizers on Phosphorus Fractionation in a Calcareous Sandy Loam Soil. <i>Pedosphere</i> , 2018 , 28, 873-883	5	21
42	Pyrolytic and hydrothermal carbonization of date palm leaflets: Characteristics and ecotoxicological effects on seed germination of lettuce. <i>Saudi Journal of Biological Sciences</i> , 2019 , 26, 665-672	4	20

41	The Effects of Biochar Amendment on Soil Fertility. <i>SSSA Special Publication Series</i> , 2015 , 123-144	0	20
40	Trace metal levels, sources, and ecological risk assessment in a densely agricultural area from Saudi Arabia. <i>Environmental Monitoring and Assessment</i> , 2017 , 189, 252	3.1	19
39	Heavy-metal fractionation and distribution in soil profiles short-term-irrigated with sewage wastewater. <i>Chemistry and Ecology</i> , 2006 , 22, 267-278	2.3	18
38	Sulphamethazine in poultry manure changes carbon and nitrogen mineralisation in soils. <i>Chemistry and Ecology</i> , 2016 , 32, 899-918	2.3	18
37	Soil Enzyme Activities in Waste Biochar Amended Multi-Metal Contaminated Soil; Effect of Different Pyrolysis Temperatures and Application Rates. <i>Communications in Soil Science and Plant Analysis</i> , 2018 , 49, 635-643	1.5	17
36	A comparison of two digestion methods for assessing heavy metals level in urban soils influenced by mining and industrial activities. <i>Journal of Environmental Management</i> , 2018 , 206, 731-739	7.9	17
35	In situ immobilization of Cr and its availability to maize plants in tannery waste-contaminated soil: effects of biochar feedstock and pyrolysis temperature. <i>Journal of Soils and Sediments</i> , 2020 , 20, 330-339	3.4	16
34	Effect of phosphogypsum application and bacteria co-inoculation on biochemical properties and nutrient availability to maize plants in a saline soil. <i>Archives of Agronomy and Soil Science</i> , 2018 , 64, 1394-1406	2	15
33	Evaluating the efficiency of different natural clay sediments for the removal of chlortetracycline from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121500	12.8	15
32	Organoclay-based nanoparticles from montmorillonite and natural clay deposits: Synthesis, characteristics, and application for MTBE removal. <i>Applied Clay Science</i> , 2017 , 142, 21-29	5.2	14
31	Assessment of heavy metals contamination in soils surrounding a gold mine: comparison of two digestion methods. <i>Chemistry and Ecology</i> , 2013 , 29, 329-339	2.3	13
30	An efficient phosphorus scavenging from aqueous solution using magnesiothermally modified bio-calcite. <i>Environmental Technology (United Kingdom)</i> , 2018 , 39, 1638-1649	2.6	12
29	Influence of NaCl-Induced Salinity and Cd Toxicity on Respiration Activity and Cd Availability to Barley Plants in Farmyard Manure-Amended Soil. <i>Applied and Environmental Soil Science</i> , 2015 , 2015, 1-8	3.8	12
28	Removal of Cr(VI) and Toxic Ions from Aqueous Solutions and Tannery Wastewater Using Polymer-Clay Composites. <i>Sustainability</i> , 2017 , 9, 1993	3.6	11
27	Turning date palm waste into carbon nanodots and nano zerovalent iron composites for excellent removal of methylthioninium chloride from water. <i>Scientific Reports</i> , 2020 , 10, 16125	4.9	11
26	Fabrication and evaluation of silica embedded and zerovalent iron composited biochars for arsenate removal from water. <i>Environmental Pollution</i> , 2020 , 266, 115256	9.3	11
25	Carbon mineralization and biochemical effects of short-term wheat straw in crude oil contaminated sandy soil. <i>Applied Geochemistry</i> , 2018 , 88, 276-287	3.5	9
24	Fabrication of sand-based novel adsorbents embedded with biochar or binding agents via calcite precipitation for sulfathiazole scavenging. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124249	12.8	9

23	Environmental assessment of tannery wastes in relation to dumpsite soil: a case study from Riyadh, Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 11019-11029	1.8	7
22	Identification, Quantification, and Toxicity of PCDDs and PCDFs in Soils from Industrial Areas in the Central and Eastern Regions of Saudi Arabia. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2016 , 96, 622-9	2.7	7
21	Role of microbial inoculation and industrial by-product phosphogypsum in growth and nutrient uptake of maize (<i>Zea mays</i> L.) grown in calcareous soil. <i>Journal of the Science of Food and Agriculture</i> , 2017 , 97, 3665-3674	4.3	6
20	Levels, solid-phase fractions and sources of heavy metals at site received industrial effluents: a case study. <i>Chemical Speciation and Bioavailability</i> , 2017 , 29, 78-88		6
19	Effect of sugar industry wastes on K status and nutrient availability of a newly reclaimed loamy sandy soil. <i>Archives of Agronomy and Soil Science</i> , 2008 , 54, 665-679	2	5
18	Advances in Pyrolytic Technologies with Improved Carbon Capture and Storage to Combat Climate Change 2020 , 535-575		4
17	Extent of Climate Change in Saudi Arabia and Its Impacts on Agriculture: A Case Study from Qassim Region 2020 , 635-657		4
16	Designing chitosan based magnetic beads with conocarpus waste-derived biochar for efficient sulfathiazole removal from contaminated water. <i>Saudi Journal of Biological Sciences</i> , 2021 , 28, 6218-6224		4
15	Preparation of Activated and Non-Activated Carbon from Conocarpus Pruning Waste as Low-Cost Adsorbent for Removal of Heavy Metal Ions from Aqueous Solution. <i>BioResources</i> , 2015 , 11,	1.3	3
14	Environmental issues in relation to agricultural practices and attitudes of farmers: A case study from Saudi Arabia. <i>Saudi Journal of Biological Sciences</i> , 2021 , 28, 1080-1087	4	3
13	Potential short-term negative versus positive effects of olive mill-derived biochar on nutrient availability in a calcareous loamy sand soil. <i>PLoS ONE</i> , 2020 , 15, e0232811	3.7	2
12	Environmental consequences of dam construction: a case study from Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	2
11	Levels, Sources, and Risk Assessment of Polychlorinated Biphenyls (PCBs) in Soils from Industrial Areas: A Case Study from Saudi Arabia. <i>Polycyclic Aromatic Compounds</i> , 2018 , 38, 420-433	1.3	2
10	Assessing the prevalence of veterinary antibiotics and associated potential ecological risk in dryland soil, manure, and compost: A case study from Saudi Arabia. <i>Journal of King Saud University - Science</i> , 2021 , 33, 101558	3.6	2
9	The Potential Use of Zeolite, Montmorillonite, and Biochar for the Removal of Radium-226 from Aqueous Solutions and Contaminated Groundwater. <i>Processes</i> , 2020 , 8, 1537	2.9	1
8	Influence of Acidified Biochar on CO ₂ Efflux and Micronutrient Availability in an Alkaline Sandy Soil. <i>Sustainability</i> , 2021 , 13, 5196	3.6	1
7	Carbon Nanodots-Embedded Pullulan Nanofibers for Sulfathiazole Removal from Wastewater Streams.. <i>Membranes</i> , 2022 , 12,	3.8	1
6	Acid-Modified and Unmodified Natural Clay Deposits for In Situ Immobilization and Reducing Phytoavailability of Molybdenum in a Sandy Loam Calcareous Soil. <i>Sustainability</i> , 2020 , 12, 8203	3.6	0

- 5 Influence of Organic Amendments and Moisture Regime on Soil CO₂-C Efflux and Polycyclic Aromatic Hydrocarbons (PAHs) Degradation. *Sustainability*, **2022**, 14, 4116 3.6
- 4 Potential short-term negative versus positive effects of olive mill-derived biochar on nutrient availability in a calcareous loamy sand soil **2020**, 15, e0232811
- 3 Potential short-term negative versus positive effects of olive mill-derived biochar on nutrient availability in a calcareous loamy sand soil **2020**, 15, e0232811
- 2 Potential short-term negative versus positive effects of olive mill-derived biochar on nutrient availability in a calcareous loamy sand soil **2020**, 15, e0232811
- 1 Potential short-term negative versus positive effects of olive mill-derived biochar on nutrient availability in a calcareous loamy sand soil **2020**, 15, e0232811