List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Enhancing phosphate adsorption by Mg/Al layered double hydroxide functionalized biochar with different Mg/Al ratios. Science of the Total Environment, 2016, 559, 121-129.	3.9	453
2	Simultaneous capture removal of phosphate, ammonium and organic substances by MgO impregnated biochar and its potential use in swine wastewater treatment. Journal of Cleaner Production, 2017, 147, 96-107.	4.6	351
3	Nutrient transformations during composting of pig manure with bentonite. Bioresource Technology, 2012, 121, 362-368.	4.8	314
4	Soil heavy metal contamination and health risks associated with artisanal gold mining in Tongguan, Shaanxi, China. Ecotoxicology and Environmental Safety, 2017, 141, 17-24.	2.9	305
5	Recovery of phosphate from aqueous solution by magnesium oxide decorated magnetic biochar and its potential as phosphate-based fertilizer substitute. Bioresource Technology, 2016, 215, 209-214.	4.8	297
6	An overview of carbothermal synthesis of metal–biochar composites for the removal of oxyanion contaminants from aqueous solution. Carbon, 2018, 129, 674-687.	5.4	282
7	Recent developments in biochar utilization as an additive in organic solid waste composting: A review. Bioresource Technology, 2017, 246, 203-213.	4.8	224
8	Denitrification potential and its relation to organic carbon quality in three coastal wetland soils. Science of the Total Environment, 2008, 407, 471-480.	3.9	164
9	Fundamental and molecular composition characteristics of biochars produced from sugarcane and rice crop residues and by-products. Chemosphere, 2016, 142, 4-13.	4.2	159
10	Recovery of phosphate and dissolved organic matter from aqueous solution using a novel CaO-MgO hybrid carbon composite and its feasibility in phosphorus recycling. Science of the Total Environment, 2018, 642, 526-536.	3.9	157
11	High-efficiency removal of Pb(II) and humate by a CeO2–MoS2 hybrid magnetic biochar. Bioresource Technology, 2019, 273, 335-340.	4.8	152
12	Degradation of Orange G by Fenton-like reaction with Fe-impregnated biochar catalyst. Bioresource Technology, 2018, 249, 368-376.	4.8	149
13	Removing tetracycline and Hg(II) with ball-milled magnetic nanobiochar and its potential on polluted irrigation water reclamation. Journal of Hazardous Materials, 2020, 384, 121095.	6.5	140
14	Removal of Pb(II) and Cd(II) ions from aqueous solution by thiosemicarbazide modified chitosan. International Journal of Biological Macromolecules, 2016, 86, 876-884.	3.6	121
15	Improving pig manure composting efficiency employing Ca-bentonite. Ecological Engineering, 2016, 87, 157-161.	1.6	119
16	Cadmium adsorption characteristics of biochars derived using various pine tree residues and pyrolysis temperatures. Journal of Colloid and Interface Science, 2019, 553, 298-307.	5.0	115
17	Removing mercury from aqueous solution using sulfurized biochar and associated mechanisms. Environmental Pollution, 2019, 244, 627-635.	3.7	108
18	Application effects of coated urea and urease and nitrification inhibitors on ammonia and greenhouse gas emissions from a subtropical cotton field of the Mississippi delta region. Science of the Total Environment, 2015, 533, 329-338.	3.9	95

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19	Enhanced sorption of hexavalent chromium [Cr(VI)] from aqueous solutions by diluted sulfuric acid-assisted MgO-coated biochar composite. Chemosphere, 2018, 208, 408-416.	4.2	88
20	Facilitative capture of As(V), Pb(II) and methylene blue from aqueous solutions with MgO hybrid sponge-like carbonaceous composite derived from sugarcane leafy trash. Journal of Environmental Management, 2018, 212, 77-87.	3.8	85
21	Adsorption/desorption behavior of cationic and anionic dyes by biochars prepared at normal and high pyrolysis temperatures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 572, 274-282.	2.3	85
22	Influence of humic substances on bioavailability of Cu and Zn during sewage sludge composting. Bioresource Technology, 2011, 102, 8022-8026.	4.8	81
23	Recycling of rice straw through pyrolysis and its adsorption behaviors for Cu and Zn ions in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 533, 330-337.	2.3	77
24	Remediation of crude oil-contaminated coastal marsh soil: Integrated effect of biochar, rhamnolipid biosurfactant and nitrogen application. Journal of Hazardous Materials, 2020, 396, 122595.	6.5	74
25	Characterization of labile organic carbon in coastal wetland soils of the Mississippi River deltaic plain: Relationships to carbon functionalities. Science of the Total Environment, 2012, 435-436, 151-158.	3.9	73
26	Soil Salinity Using Saturated Paste and 1:1 Soil to Water Extracts. Soil Science Society of America Journal, 2005, 69, 1146-1151.	1.2	68
27	Removal of Cd(II) and Cr(VI) ions by highly cross-linked Thiocarbohydrazide-chitosan gel. International Journal of Biological Macromolecules, 2017, 104, 1072-1081.	3.6	68
28	Zinc and Cadmium Adsorption to Aluminum Oxide Nanoparticles Affected by Naturally Occurring Ligands. Journal of Environmental Quality, 2014, 43, 498-506.	1.0	65
29	Effect of Biochar Amendment on Tylosin Adsorption-Desorption and Transport in Two Different Soils. Journal of Environmental Quality, 2012, 41, 1185-1192.	1.0	63
30	Effect of pyrolysis temperature on phosphate adsorption characteristics and mechanisms of crawfish char. Journal of Colloid and Interface Science, 2018, 525, 143-151.	5.0	61
31	Biochar produced from mineral salt-impregnated chicken manure: Fertility properties and potential for carbon sequestration. Waste Management, 2018, 78, 802-810.	3.7	61
32	Characterization of phosphorus engineered biochar and its impact on immobilization of Cd and Pb from smelting contaminated soils. Journal of Soils and Sediments, 2020, 20, 3041-3052.	1.5	60
33	Phosphate removal in constructed wetland with rapid cooled basic oxygen furnace slag. Chemical Engineering Journal, 2017, 327, 713-724.	6.6	58
34	Effect of KOH-enhanced biochar on increasing soil plant-available silicon. Geoderma, 2018, 321, 22-31.	2.3	56
35	Removal of Eriochrome Black T by sulfate radical generated from Fe-impregnated biochar/persulfate in Fenton-like reaction. Journal of Industrial and Engineering Chemistry, 2019, 71, 201-209.	2.9	53
36	Comparison of Soil-Test Extractants for Phosphorus, Potassium, Calcium, Magnesium, Sodium, Zinc, Copper, Manganese, and Iron in Louisiana Soils. Communications in Soil Science and Plant Analysis, 2004, 35, 145-160.	0.6	52

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37	Effect of Ammonium, Potassium, and Sodium Cations and Phosphate, Nitrate, and Chloride Anions on Zinc Sorption and Lability in Selected Acid and Calcareous Soils. Soil Science Society of America Journal, 2005, 69, 1036-1046.	1.2	52
38	Soil Characteristics and Phosphorus Level Effect on Phosphorus Loss in Runoff. Journal of Environmental Quality, 2005, 34, 1640-1650.	1.0	46
39	Potassium Buffering Characteristics of Three Soils Low in Exchangeable Potassium. Soil Science Society of America Journal, 2004, 68, 654-661.	1.2	45
40	Removal of cadmium(II) cations from an aqueous solution with aminothiourea chitosan strengthened magnetic biochar. Journal of Applied Polymer Science, 2018, 135, 46239.	1.3	43
41	Ammonia and greenhouse gas emissions from a subtropical wheat field under different nitrogen fertilization strategies. Journal of Environmental Sciences, 2017, 57, 196-210.	3.2	42
42	Characteristics and phytotoxicity assay of biochars derived from a Zn-rich antibiotic residue. Journal of Analytical and Applied Pyrolysis, 2015, 113, 575-583.	2.6	41
43	Influence of poultry litter and biochar on soil water dynamics and nutrient leaching from a very fine sandy loam soil. Soil and Tillage Research, 2019, 189, 44-51.	2.6	41
44	FRACTIONATION AND SORPTION OF INORGANIC PHOSPHORUS IN LOUISIANA CALCAREOUS SOILS. Soil Science, 2006, 171, 39-51.	0.9	39
45	Potentiometric Determination of Potassium Q/I Relationships. Soil Science Society of America Journal, 1988, 52, 657-662.	1.2	38
46	Computer-Simulated Evaluation of Possible Mechanisms for Quenching Heavy Metal Ion Activity in Plant Vacuoles. Plant Physiology, 1991, 97, 1154-1160.	2.3	38
47	Effect of Organic Matter Oxidation on the Fractionation of Copper, Zinc, Lead, and Arsenic in Sewage Sludge and Amended Soils. Journal of Environmental Quality, 2011, 40, 1162-1171.	1.0	38
48	Conversion of Cu(II)-polluted biomass into an environmentally benign Cu nanoparticles-embedded biochar composite and its potential use on cyanobacteria inhibition. Journal of Cleaner Production, 2019, 216, 25-32.	4.6	36
49	Heavy metals and metalloid contamination in Louisiana Lake Pontchartrain Estuary along I-10 Bridge. Transportation Research, Part D: Transport and Environment, 2016, 44, 66-77.	3.2	32
50	Heavy metal distribution and water quality characterization of water bodies in Louisiana's Lake Pontchartrain Basin, USA. Environmental Monitoring and Assessment, 2016, 188, 628.	1.3	32
51	SOIL SILICON EXTRACTABILITY WITH SEVEN SELECTED EXTRACTANTS IN RELATION TO COLORIMETRIC AND ICP DETERMINATION. Soil Science, 2004, 169, 861-870.	0.9	30
52	Effect of nitrogen fertilization and residue management practices on ammonia emissions from subtropical sugarcane production. Atmospheric Environment, 2016, 139, 122-130.	1.9	30
53	Potential use of biochar and rhamnolipid biosurfactant for remediation of crude oil-contaminated coastal wetland soil: Ecotoxicity assessment. Chemosphere, 2020, 253, 126617.	4.2	30
54	Predicting Runoff of Suspended Solids and Particulate Phosphorus for Selected Louisiana Soils Using Simple Soil Tests. Journal of Environmental Quality, 2007, 36, 1310-1317.	1.0	28

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55	Molecular Composition of Humic Acids from Coastal Wetland Soils along a Salinity Gradient. Soil Science Society of America Journal, 2012, 76, 1592-1605.	1.2	28
56	Effectiveness of Bauxite Residues in Immobilizing Contaminants in Manure-Amended Soils. Soil Science, 2009, 174, 676-686.	0.9	24
57	Heavy metals and metalloids content and enrichment in Gulf Coast sediments in the vicinity of an oil refinery. Journal of Geochemical Exploration, 2015, 159, 93-100.	1.5	24
58	Stronger network connectivity with lower diversity of soil fungal community was presented in coastal marshes after sixteen years of freshwater restoration. Science of the Total Environment, 2020, 744, 140623.	3.9	24
59	Application of biochar in estrogen hormone-contaminated and manure-affected soils: Impact on soil respiration, microbial community and enzyme activity. Chemosphere, 2021, 270, 128625.	4.2	24
60	Effect of biochar amendment on sorption-desorption and dissipation of 17α‑ethinylestradiol in sandy loam and clay soils. Science of the Total Environment, 2019, 686, 959-967.	3.9	23
61	Integrated application effects of biochar and plant residue on ammonia loss, heavy metal immobilization, and estrogen dissipation during the composting of poultry manure. Waste Management, 2021, 131, 117-125.	3.7	23
62	Carbon gas production under different electron acceptors in a freshwater marsh soil. Chemosphere, 2009, 76, 517-522.	4.2	22
63	Soil Carbon Characteristics in Two Mississippi River Deltaic Marshland Profiles. Wetlands, 2011, 31, 157-166.	0.7	22
64	Mercury adsorption in the Mississippi River deltaic plain freshwater marsh soil of Louisiana Gulf coastal wetlands. Chemosphere, 2018, 195, 455-462.	4.2	21
65	Response of microbial populations regulating nutrient biogeochemical cycles to oiling of coastal saltmarshes from the Deepwater Horizon oil spill. Environmental Pollution, 2018, 241, 136-147.	3.7	21
66	Effect of experimental relevance on potassium Q/I relationships and its implications for surface and subsurface soils. Communications in Soil Science and Plant Analysis, 2001, 32, 2561-2575.	0.6	20
67	Impacts of land use change on soil organic matter chemistry in the Everglades, Florida - a characterization with pyrolysis-gas chromatography–mass spectrometry. Geoderma, 2019, 338, 393-400.	2.3	20
68	Effect of alkali-enhanced biochar on silicon uptake and suppression of gray leaf spot development in perennial ryegrass. Crop Protection, 2019, 119, 9-16.	1.0	19
69	Nitrification inhibitors reduce nitrogen losses and improve soil health in a subtropical pastureland. Geoderma, 2021, 388, 114947.	2.3	18
70	Macroscopic and Extended X-ray Absorption Fine Structure Spectroscopic Investigation of Ligand Effect on Zinc Adsorption to Kaolinite as a Function of pH. Soil Science, 2011, 176, 464-471.	0.9	16
71	Fresh and weathered crude oil effects on potential denitrification rates of coastal marsh soil. Chemosphere, 2015, 134, 120-126.	4.2	16
72	Biochemical Oxygen Demand Relationships in Typical Agricultural Effluents. Water, Air, and Soil Pollution, 2010, 213, 237-249.	1.1	15

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73	Lead sorption characteristics of various chicken bone part-derived chars. Environmental Geochemistry and Health, 2019, 41, 1675-1685.	1.8	15
74	Physico-chemical forms of copper in water and sediments of Lake Pontchartrain basin, USA. Chemosphere, 2018, 195, 448-454.	4.2	14
75	Heterogeneous fenton oxidation of methylene blue with Fe-impregnated biochar catalyst. Biochar, 2020, 2, 165-176.	6.2	14
76	Removal of potentially toxic metal by biochar derived from rendered solid residue with high content of protein and bone tissue. Ecotoxicology and Environmental Safety, 2021, 208, 111690.	2.9	14
77	Determination of exchangeable potassium in soil using ion-selective electrodes in soil suspensions. European Journal of Soil Science, 2001, 52, 143-150.	1.8	13
78	Phosphorus Loss in Runoff from Long-term Continuous Wheat Fertility Trials. Soil Science Society of America Journal, 2006, 70, 163-171.	1.2	13
79	Potassium Buffering Characteristics of Three Soils Low in Exchangeable Potassium. Soil Science Society of America Journal, 2004, 68, 654.	1.2	13
80	Impacts of Nâ€stabilizers and Biochar on Nitrogen Losses, Nitrogen Phytoavailability, and Cotton Yield in Poultry Litterâ€Fertilized Soils. Agronomy Journal, 2018, 110, 2016-2024.	0.9	12
81	COMPARISON OF ION-SELECTIVE ELECTRODE METHODS FOR DETERMINING POTASSIUM Q/I RELATIONSHIPS. Canadian Journal of Soil Science, 1990, 70, 693-704.	0.5	11
82	EVALUATION OF THREE- AND FIVE-STEP INORGANIC PHOSPHORUS CHEMICAL FRACTIONATION PROCEDURES ALONG WITH INDUCTIVELY COUPLED PLASMA DETERMINATION FOR CALCAREOUS SOILS. Soil Science, 2007, 172, 55-67.	0.9	11
83	Reducing Potential Leaching of Phosphorus, Heavy Metals, and Fecal Coliform From Animal Wastes Using Bauxite Residues. Water, Air, and Soil Pollution, 2011, 214, 241-252.	1.1	11
84	Surface Water Quality as Affected by Sugarcane Residue Management Techniques. Water, Air, and Soil Pollution, 2010, 208, 119-128.	1.1	10
85	Ants alter molecular characteristics of soil organic carbon determined by pyrolysis-chromatography/mass spectrometry. Applied Soil Ecology, 2018, 130, 91-97.	2.1	9
86	Greenhouse Gas Emissions as Influenced by Nitrogen Fertilization and Harvest Residue Management in Sugarcane Production. , 2019, 2, 1-10.		9
87	Effect of pyrolysis temperature on Si release of alkali-enhanced Si-rich biochar and plant response. Biochar, 2021, 3, 469-484.	6.2	9
88	Comparison of catalytic activity for treating recalcitrant organic pollutant in heterogeneous Fenton oxidation with iron-impregnated biochar and activated carbon. Journal of Water Process Engineering, 2021, 42, 102141.	2.6	9
89	Lignin chemistry of wetland soil profiles in two contrasting basins of the Louisiana Gulf coast. Organic Geochemistry, 2019, 137, 103902.	0.9	8
90	Performance and economic analyses of year-round forage systems for forage-fed beef production in the Gulf Coast1. Journal of Animal Science, 2014, 92, 5704-5715.	0.2	7

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91	ANALYSIS OF PASTURE SYSTEMS TO MAXIMIZE THE PROFITABILITY AND SUSTAINABILITY OF GRASS-FED BEEF PRODUCTION. Journal of Agricultural & amp; Applied Economics, 2015, 47, 193-212.	0.8	7
92	Sorption and Desorption Characteristics of Tylosin in Three Louisiana Soils. Journal of Environmental Quality, 2019, 48, 1472-1480.	1.0	7
93	Sorption characteristics of phosphate by bauxite residue in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 618, 126465.	2.3	7
94	Changes in Root Cell Wall Chemistry Induced by Manganese Exposure with Two Tobacco Genotypes. Journal of Plant Nutrition, 2003, 26, 1527-1540.	0.9	6
95	Rapid detection of estrogen compounds using surface-enhanced Raman spectroscopy with a Zn/Au-Ag/Ag sandwich-structured substrate. Optical Materials, 2021, 112, 110759.	1.7	6
96	Characteristics of adsorption behavior of potentially toxic metals by biochar derived from fallen leaves (Platanus) and its mechanism. Sustainable Chemistry and Pharmacy, 2022, 29, 100776.	1.6	6
97	Kinetics of Manganese Uptake by Excised Roots of Sensitive and Tolerant Tobacco Genotypes. Journal of Plant Nutrition, 2003, 26, 1439-1450.	0.9	5
98	Effect of Silicon Application on Silicon Contents in "Fuji―Apple in Loess Plateau. Communications in Soil Science and Plant Analysis, 2016, 47, 2325-2333.	0.6	5
99	The biochar impact on miscanthus and sunflower growth in marginal lands. Agrology, 2020, 3, 3-11.	0.8	4
100	Effects of biochar and N-stabilizers on greenhouse gas emissions from a subtropical pasture field applied with organic and inorganic nitrogen fertilizers. Journal of Environmental Management, 2022, 306, 114423.	3.8	4
101	Copper in Lake Pontchartrain bottom sediment: Relationship to sediment properties. Aquatic Ecosystem Health and Management, 2009, 12, 456-460.	0.3	3
102	Agronomic and environmental performance of biochar amendment in alluvial soils under subtropical sugarcane production. , 2021, 4, e20209.		3
103	Nutrient Chemistry of Manure and Manure-Impacted Soils as Influenced by Application of Bauxite Residue. , 2014, , 239-266.		3
104	Characteristics and Functions of Labile Organic Carbon in Coastal Wetland Soils of the Mississippi River Deltaic Plain. SSSA Special Publication Series, 2015, , 315-336.	0.2	2
105	Exploring anaerobic CO2 production response to elevated nitrate levels in Gulf of Mexico coastal wetlands: Phenomena and relationships. Science of the Total Environment, 2020, 709, 136158.	3.9	2
106	Mass concentration and size distribution of particles released from harvesting and biomass burning of sugarcane. Agricultural and Environmental Letters, 2020, 5, e20028.	0.8	2
107	Transcriptional insights into Cu related tolerance strategies in maize linked to a novel tea-biochar. Environmental Pollution, 2022, 293, 118500.	3.7	2
108	Effects of residue management on nitrogen losses in surface and sub-surface water from sugarcane fields. Archives of Agronomy and Soil Science, 2014, 60, 103-118.	1.3	1

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109	Biochar for Effective Cleaning of Contaminated Dumpsite Soil: A Sustainable and Cost-Effective Remediation Technique for Developing Nations. , 2019, , 3-29.		0