

Jim J Wang

List of Publications by Citations

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107
papers

4,302
citations

36
h-index

63
g-index

111
ext. papers

5,227
ext. citations

5.9
avg, IF

5.91
L-index

#	Paper	IF	Citations
107	Enhancing phosphate adsorption by Mg/Al layered double hydroxide functionalized biochar with different Mg/Al ratios. <i>Science of the Total Environment</i> , 2016 , 559, 121-129	10.2	308
106	Nutrient transformations during composting of pig manure with bentonite. <i>Bioresource Technology</i> , 2012 , 121, 362-8	11	232
105	Simultaneous capture removal of phosphate, ammonium and organic substances by MgO impregnated biochar and its potential use in swine wastewater treatment. <i>Journal of Cleaner Production</i> , 2017 , 147, 96-107	10.3	227
104	Soil heavy metal contamination and health risks associated with artisanal gold mining in Tongguan, Shaanxi, China. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 141, 17-24	7	212
103	Recovery of phosphate from aqueous solution by magnesium oxide decorated magnetic biochar and its potential as phosphate-based fertilizer substitute. <i>Bioresource Technology</i> , 2016 , 215, 209-214	11	198
102	An overview of carbothermal synthesis of metal-biochar composites for the removal of oxyanion contaminants from aqueous solution. <i>Carbon</i> , 2018 , 129, 674-687	10.4	194
101	Recent developments in biochar utilization as an additive in organic solid waste composting: A review. <i>Bioresource Technology</i> , 2017 , 246, 203-213	11	149
100	Denitrification potential and its relation to organic carbon quality in three coastal wetland soils. <i>Science of the Total Environment</i> , 2008 , 407, 471-80	10.2	133
99	Fundamental and molecular composition characteristics of biochars produced from sugarcane and rice crop residues and by-products. <i>Chemosphere</i> , 2016 , 142, 4-13	8.4	117
98	High-efficiency removal of Pb(II) and humate by a CeO-MoS hybrid magnetic biochar. <i>Bioresource Technology</i> , 2019 , 273, 335-340	11	115
97	Recovery of phosphate and dissolved organic matter from aqueous solution using a novel CaO-MgO hybrid carbon composite and its feasibility in phosphorus recycling. <i>Science of the Total Environment</i> , 2018 , 642, 526-536	10.2	106
96	Degradation of Orange G by Fenton-like reaction with Fe-impregnated biochar catalyst. <i>Bioresource Technology</i> , 2018 , 249, 368-376	11	103
95	Improving pig manure composting efficiency employing Ca-bentonite. <i>Ecological Engineering</i> , 2016 , 87, 157-161	3.9	89
94	Removal of Pb(II) and Cd(II) ions from aqueous solution by thiosemicarbazide modified chitosan. <i>International Journal of Biological Macromolecules</i> , 2016 , 86, 876-84	7.9	81
93	Cadmium adsorption characteristics of biochars derived using various pine tree residues and pyrolysis temperatures. <i>Journal of Colloid and Interface Science</i> , 2019 , 553, 298-307	9.3	72
92	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. <i>Science of the Total Environment</i> , 2015 , 533, 329-38	10.2	68
91	Removing tetracycline and Hg(II) with ball-milled magnetic nanobiochar and its potential on polluted irrigation water reclamation. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121095	12.8	66

90	Enhanced sorption of hexavalent chromium [Cr(VI)] from aqueous solutions by diluted sulfuric acid-assisted MgO-coated biochar composite. <i>Chemosphere</i> , 2018 , 208, 408-416	8.4	62
89	Removing mercury from aqueous solution using sulfurized biochar and associated mechanisms. <i>Environmental Pollution</i> , 2019 , 244, 627-635	9.3	62
88	Influence of humic substances on bioavailability of Cu and Zn during sewage sludge composting. <i>Bioresource Technology</i> , 2011 , 102, 8022-6	11	61
87	Soil Salinity Using Saturated Paste and 1:1 Soil to Water Extracts. <i>Soil Science Society of America Journal</i> , 2005 , 69, 1146-1151	2.5	60
86	Recycling of rice straw through pyrolysis and its adsorption behaviors for Cu and Zn ions in aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 533, 330-337	5.1	59
85	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. <i>Journal of Environmental Management</i> , 2018 , 212, 77-87	7.9	58
84	Characterization of labile organic carbon in coastal wetland soils of the Mississippi River deltaic plain: relationships to carbon functionalities. <i>Science of the Total Environment</i> , 2012 , 435-436, 151-8	10.2	57
83	Adsorption/desorption behavior of cationic and anionic dyes by biochars prepared at normal and high pyrolysis temperatures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 572, 274-282	5.1	56
82	Effect of biochar amendment on tylosin adsorption-desorption and transport in two different soils. <i>Journal of Environmental Quality</i> , 2012 , 41, 1185-92	3.4	56
81	Zinc and cadmium adsorption to aluminum oxide nanoparticles affected by naturally occurring ligands. <i>Journal of Environmental Quality</i> , 2014 , 43, 498-506	3.4	53
80	Effect of pyrolysis temperature on phosphate adsorption characteristics and mechanisms of crawfish char. <i>Journal of Colloid and Interface Science</i> , 2018 , 525, 143-151	9.3	41
79	Removal of Cd(II) and Cr(VI) ions by highly cross-linked Thiocarbonylhydrazide-chitosan gel. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1072-1081	7.9	41
78	Phosphate removal in constructed wetland with rapid cooled basic oxygen furnace slag. <i>Chemical Engineering Journal</i> , 2017 , 327, 713-724	14.7	39
77	Comparison of Soil-Test Extractants for Phosphorus, Potassium, Calcium, Magnesium, Sodium, Zinc, Copper, Manganese, and Iron in Louisiana Soils. <i>Communications in Soil Science and Plant Analysis</i> , 2004 , 35, 145-160	1.5	39
76	Biochar produced from mineral salt-impregnated chicken manure: Fertility properties and potential for carbon sequestration. <i>Waste Management</i> , 2018 , 78, 802-810	8.6	38
75	Effect of Ammonium, Potassium, and Sodium Cations and Phosphate, Nitrate, and Chloride Anions on Zinc Sorption and Lability in Selected Acid and Calcareous Soils. <i>Soil Science Society of America Journal</i> , 2005 , 69, 1036-1046	2.5	38
74	Soil characteristics and phosphorus level effect on phosphorus loss in runoff. <i>Journal of Environmental Quality</i> , 2005 , 34, 1640-50	3.4	38
73	Effect of KOH-enhanced biochar on increasing soil plant-available silicon. <i>Geoderma</i> , 2018 , 321, 22-31	6.7	36

72	Potentiometric Determination of Potassium Q/I Relationships. <i>Soil Science Society of America Journal</i> , 1988 , 52, 657-662	2.5	36
71	Removal of Eriochrome Black T by sulfate radical generated from Fe-impregnated biochar/persulfate in Fenton-like reaction. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 71, 201-209	6.3	36
70	Effect of organic matter oxidation on the fractionation of copper, zinc, lead, and arsenic in sewage sludge and amended soils. <i>Journal of Environmental Quality</i> , 2011 , 40, 1162-71	3.4	35
69	Computer-simulated evaluation of possible mechanisms for quenching heavy metal ion activity in plant vacuoles: I. Cadmium. <i>Plant Physiology</i> , 1991 , 97, 1154-60	6.6	34
68	FRACTIONATION AND SORPTION OF INORGANIC PHOSPHORUS IN LOUISIANA CALCAREOUS SOILS. <i>Soil Science</i> , 2006 , 171, 39-51	0.9	33
67	Potassium Buffering Characteristics of Three Soils Low in Exchangeable Potassium. <i>Soil Science Society of America Journal</i> , 2004 , 68, 654-661	2.5	33
66	Remediation of crude oil-contaminated coastal marsh soil: Integrated effect of biochar, rhamnolipid biosurfactant and nitrogen application. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122595	12.8	33
65	Characteristics and phytotoxicity assay of biochars derived from a Zn-rich antibiotic residue. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 113, 575-583	6	29
64	Removal of cadmium(II) cations from an aqueous solution with aminothiourea chitosan strengthened magnetic biochar. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46239	2.9	29
63	Influence of poultry litter and biochar on soil water dynamics and nutrient leaching from a very fine sandy loam soil. <i>Soil and Tillage Research</i> , 2019 , 189, 44-51	6.5	27
62	Characterization of phosphorus engineered biochar and its impact on immobilization of Cd and Pb from smelting contaminated soils. <i>Journal of Soils and Sediments</i> , 2020 , 20, 3041-3052	3.4	27
61	Heavy metals and metalloid contamination in Louisiana Lake Pontchartrain Estuary along I-10 Bridge. <i>Transportation Research, Part D: Transport and Environment</i> , 2016 , 44, 66-77	6.4	26
60	SOIL SILICON EXTRACTABILITY WITH SEVEN SELECTED EXTRACTANTS IN RELATION TO COLORIMETRIC AND ICP DETERMINATION. <i>Soil Science</i> , 2004 , 169, 861-870	0.9	25
59	Ammonia and greenhouse gas emissions from a subtropical wheat field under different nitrogen fertilization strategies. <i>Journal of Environmental Sciences</i> , 2017 , 57, 196-210	6.4	24
58	Conversion of Cu(II)-polluted biomass into an environmentally benign Cu nanoparticles-embedded biochar composite and its potential use on cyanobacteria inhibition. <i>Journal of Cleaner Production</i> , 2019 , 216, 25-32	10.3	24
57	Predicting runoff of suspended solids and particulate phosphorus for selected Louisiana soils using simple soil tests. <i>Journal of Environmental Quality</i> , 2007 , 36, 1310-7	3.4	23
56	Heavy metal distribution and water quality characterization of water bodies in Louisiana's Lake Pontchartrain Basin, USA. <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 628	3.1	21
55	Effect of nitrogen fertilization and residue management practices on ammonia emissions from subtropical sugarcane production. <i>Atmospheric Environment</i> , 2016 , 139, 122-130	5.3	20

54	Carbon gas production under different electron acceptors in a freshwater marsh soil. <i>Chemosphere</i> , 2009 , 76, 517-22	8.4	20
53	Effectiveness of Bauxite Residues in Immobilizing Contaminants in Manure-Amended Soils. <i>Soil Science</i> , 2009 , 174, 676-686	0.9	20
52	Soil Carbon Characteristics in Two Mississippi River Deltaic Marshland Profiles. <i>Wetlands</i> , 2011 , 31, 157-166	16.6	19
51	Molecular Composition of Humic Acids from Coastal Wetland Soils along a Salinity Gradient. <i>Soil Science Society of America Journal</i> , 2012 , 76, 1592-1605	2.5	19
50	Effect of experimental relevance on potassium Q/I relationships and its implications for surface and subsurface soils. <i>Communications in Soil Science and Plant Analysis</i> , 2001 , 32, 2561-2575	1.5	18
49	Effect of biochar amendment on sorption-desorption and dissipation of 17 β -ethinylestradiol in sandy loam and clay soils. <i>Science of the Total Environment</i> , 2019 , 686, 959-967	10.2	17
48	Potential use of biochar and rhamnolipid biosurfactant for remediation of crude oil-contaminated coastal wetland soil: Ecotoxicity assessment. <i>Chemosphere</i> , 2020 , 253, 126617	8.4	17
47	Heavy metals and metalloids content and enrichment in Gulf Coast sediments in the vicinity of an oil refinery. <i>Journal of Geochemical Exploration</i> , 2015 , 159, 93-100	3.8	16
46	Mercury adsorption in the Mississippi River deltaic plain freshwater marsh soil of Louisiana Gulf coastal wetlands. <i>Chemosphere</i> , 2018 , 195, 455-462	8.4	16
45	Macroscopic and Extended X-ray Absorption Fine Structure Spectroscopic Investigation of Ligand Effect on Zinc Adsorption to Kaolinite as a Function of pH. <i>Soil Science</i> , 2011 , 176, 464-471	0.9	14
44	Response of microbial populations regulating nutrient biogeochemical cycles to oiling of coastal saltmarshes from the Deepwater Horizon oil spill. <i>Environmental Pollution</i> , 2018 , 241, 136-147	9.3	13
43	Biochemical Oxygen Demand Relationships in Typical Agricultural Effluents. <i>Water, Air, and Soil Pollution</i> , 2010 , 213, 237-249	2.6	12
42	Fresh and weathered crude oil effects on potential denitrification rates of coastal marsh soil. <i>Chemosphere</i> , 2015 , 134, 120-6	8.4	11
41	COMPARISON OF ION-SELECTIVE ELECTRODE METHODS FOR DETERMINING POTASSIUM Q/I RELATIONSHIPS. <i>Canadian Journal of Soil Science</i> , 1990 , 70, 693-704	1.4	11
40	Potassium Buffering Characteristics of Three Soils Low in Exchangeable Potassium. <i>Soil Science Society of America Journal</i> , 2004 , 68, 654	2.5	11
39	Physico-chemical forms of copper in water and sediments of Lake Pontchartrain basin, USA. <i>Chemosphere</i> , 2018 , 195, 448-454	8.4	10
38	Reducing Potential Leaching of Phosphorus, Heavy Metals, and Fecal Coliform From Animal Wastes Using Bauxite Residues. <i>Water, Air, and Soil Pollution</i> , 2011 , 214, 241-252	2.6	10
37	Phosphorus Loss in Runoff from Long-term Continuous Wheat Fertility Trials. <i>Soil Science Society of America Journal</i> , 2006 , 70, 163-171	2.5	10

36	Stronger network connectivity with lower diversity of soil fungal community was presented in coastal marshes after sixteen years of freshwater restoration. <i>Science of the Total Environment</i> , 2020 , 744, 140623	10.2	10
35	Impacts of land use change on soil organic matter chemistry in the Everglades, Florida - a characterization with pyrolysis-gas chromatography/mass spectrometry. <i>Geoderma</i> , 2019 , 338, 393-400	6.7	10
34	Effect of alkali-enhanced biochar on silicon uptake and suppression of gray leaf spot development in perennial ryegrass. <i>Crop Protection</i> , 2019 , 119, 9-16	2.7	10
33	Surface Water Quality as Affected by Sugarcane Residue Management Techniques. <i>Water, Air, and Soil Pollution</i> , 2010 , 208, 119-128	2.6	9
32	EVALUATION OF THREE- AND FIVE-STEP INORGANIC PHOSPHORUS CHEMICAL FRACTIONATION PROCEDURES ALONG WITH INDUCTIVELY COUPLED PLASMA DETERMINATION FOR CALCAREOUS SOILS. <i>Soil Science</i> , 2007 , 172, 55-67	0.9	9
31	Determination of exchangeable potassium in soil using ion-selective electrodes in soil suspensions. <i>European Journal of Soil Science</i> , 2001 , 52, 143-150	3.4	9
30	Application of biochar in estrogen hormone-contaminated and manure-affected soils: Impact on soil respiration, microbial community and enzyme activity. <i>Chemosphere</i> , 2021 , 270, 128625	8.4	9
29	Integrated application effects of biochar and plant residue on ammonia loss, heavy metal immobilization, and estrogen dissipation during the composting of poultry manure. <i>Waste Management</i> , 2021 , 131, 117-125	8.6	9
28	Removal of potentially toxic metal by biochar derived from rendered solid residue with high content of protein and bone tissue. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 208, 111690	7	8
27	Impacts of N-stabilizers and Biochar on Nitrogen Losses, Nitrogen Phytoavailability, and Cotton Yield in Poultry Litter-Fertilized Soils. <i>Agronomy Journal</i> , 2018 , 110, 2016-2024	2.2	7
26	Greenhouse Gas Emissions as Influenced by Nitrogen Fertilization and Harvest Residue Management in Sugarcane Production 2019 , 2, 1-10		7
25	Lead sorption characteristics of various chicken bone part-derived chars. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 1675-1685	4.7	7
24	ANALYSIS OF PASTURE SYSTEMS TO MAXIMIZE THE PROFITABILITY AND SUSTAINABILITY OF GRASS-FED BEEF PRODUCTION. <i>Journal of Agricultural & Applied Economics</i> , 2015 , 47, 193-212	1.1	6
23	Changes in Root Cell Wall Chemistry Induced by Manganese Exposure with Two Tobacco Genotypes. <i>Journal of Plant Nutrition</i> , 2003 , 26, 1527-1540	2.3	6
22	Nitrification inhibitors reduce nitrogen losses and improve soil health in a subtropical pastureland. <i>Geoderma</i> , 2021 , 388, 114947	6.7	6
21	Ants alter molecular characteristics of soil organic carbon determined by pyrolysis-chromatography/mass spectrometry. <i>Applied Soil Ecology</i> , 2018 , 130, 91-97	5	5
20	Performance and economic analyses of year-round forage systems for forage-fed beef production in the Gulf Coast. <i>Journal of Animal Science</i> , 2014 , 92, 5704-15	0.7	5
19	Kinetics of Manganese Uptake by Excised Roots of Sensitive and Tolerant Tobacco Genotypes. <i>Journal of Plant Nutrition</i> , 2003 , 26, 1439-1450	2.3	5

18	Lignin chemistry of wetland soil profiles in two contrasting basins of the Louisiana Gulf coast. <i>Organic Geochemistry</i> , 2019 , 137, 103902	3.1	5
17	Copper in Lake Pontchartrain bottom sediment: Relationship to sediment properties. <i>Aquatic Ecosystem Health and Management</i> , 2009 , 12, 456-460	1.4	3
16	Rapid detection of estrogen compounds using surface-enhanced Raman spectroscopy with a Zn/Au-Ag/Ag sandwich-structured substrate. <i>Optical Materials</i> , 2021 , 112, 110759	3.3	3
15	Effect of Silicon Application on Silicon Contents in Fuji Apple in Loess Plateau. <i>Communications in Soil Science and Plant Analysis</i> , 2016 , 47, 2325-2333	1.5	2
14	Nutrient Chemistry of Manure and Manure-Impacted Soils as Influenced by Application of Bauxite Residue 2014 , 239-266		2
13	Sorption and Desorption Characteristics of Tylosin in Three Louisiana Soils. <i>Journal of Environmental Quality</i> , 2019 , 48, 1472-1480	3.4	1
12	Mass concentration and size distribution of particles released from harvesting and biomass burning of sugarcane. <i>Agricultural and Environmental Letters</i> , 2020 , 5, e20028	1.5	1
11	Heterogeneous fenton oxidation of methylene blue with Fe-impregnated biochar catalyst. <i>Biochar</i> , 2020 , 2, 165-176	10	1
10	Effects of residue management on nitrogen losses in surface and sub-surface water from sugarcane fields. <i>Archives of Agronomy and Soil Science</i> , 2014 , 60, 103-118	2	1
9	Exploring anaerobic CO production response to elevated nitrate levels in Gulf of Mexico coastal wetlands: Phenomena and relationships. <i>Science of the Total Environment</i> , 2020 , 709, 136158	10.2	1
8	Sorption characteristics of phosphate by bauxite residue in aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 618, 126465	5.1	1
7	Agronomic and environmental performance of biochar amendment in alluvial soils under subtropical sugarcane production 2021 , 4, e20209		1
6	Characteristics and Functions of Labile Organic Carbon in Coastal Wetland Soils of the Mississippi River Deltaic Plain. <i>SSSA Special Publication Series</i> , 2015 , 315-336	0	0
5	Effects of biochar and N-stabilizers on greenhouse gas emissions from a subtropical pasture field applied with organic and inorganic nitrogen fertilizers.. <i>Journal of Environmental Management</i> , 2022 , 306, 114423	7.9	0
4	Effect of pyrolysis temperature on Si release of alkali-enhanced Si-rich biochar and plant response. <i>Biochar</i> , 2021 , 3, 469	10	0
3	Comparison of catalytic activity for treating recalcitrant organic pollutant in heterogeneous Fenton oxidation with iron-impregnated biochar and activated carbon. <i>Journal of Water Process Engineering</i> , 2021 , 42, 102141	6.7	0
2	Transcriptional insights into Cu related tolerance strategies in maize linked to a novel tea-biochar. <i>Environmental Pollution</i> , 2021 , 293, 118500	9.3	
1	Biochar for Effective Cleaning of Contaminated Dumpsite Soil: A Sustainable and Cost-Effective Remediation Technique for Developing Nations 2019 , 3-29		

