

Tao Zhang

List of Publications by Year in descending order

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45
papers

2,499
citations

201575

27
h-index

315616

38
g-index

45
all docs

45
docs citations

45
times ranked

2314
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyethylene imine modified hydrochar adsorption for chromium (VI) and nickel (II) removal from aqueous solution. <i>Bioresource Technology</i> , 2018, 247, 370-379.	4.8	182
2	Application of Magnesium Modified Corn Biochar for Phosphorus Removal and Recovery from Swine Wastewater. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 9217-9237.	1.2	177
3	Ammonium nitrogen removal from coking wastewater by chemical precipitation recycle technology. <i>Water Research</i> , 2009, 43, 5209-5215.	5.3	159
4	Pretreatment of ammonium removal from landfill leachate by chemical precipitation. <i>Journal of Hazardous Materials</i> , 2009, 166, 911-915.	6.5	153
5	Phosphorus recovery from biogas fermentation liquid by Ca-Mg loaded biochar. <i>Journal of Environmental Sciences</i> , 2015, 29, 106-114.	3.2	140
6	Effects of external additives: Biochar, bentonite, phosphate, on co-composting for swine manure and corn straw. <i>Chemosphere</i> , 2020, 248, 125927.	4.2	120
7	Efficient removal of lead from solution by celery-derived biochars rich in alkaline minerals. <i>Bioresource Technology</i> , 2017, 235, 185-192.	4.8	107
8	Enhanced adsorption of Cu(II) and Zn(II) from aqueous solution by polyethyleneimine modified straw hydrochar. <i>Science of the Total Environment</i> , 2021, 778, 146116.	3.9	105
9	Optimization and mechanism studies on cell disruption and phosphorus recovery from microalgae with magnesium modified hydrochar in assisted hydrothermal system. <i>Science of the Total Environment</i> , 2019, 646, 1140-1154.	3.9	96
10	Corn waste valorization to generate activated hydrochar to recover ammonium nitrogen from compost leachate by hydrothermal assisted pretreatment. <i>Journal of Environmental Management</i> , 2019, 236, 108-117.	3.8	88
11	Improving the humification and phosphorus flow during swine manure composting: A trial for enhancing the beneficial applications of hazardous biowastes. <i>Journal of Hazardous Materials</i> , 2022, 425, 127906.	6.5	83
12	Apricot shell- and apple tree-derived biochar affect the fractionation and bioavailability of Zn and Cd as well as the microbial activity in smelter contaminated soil. <i>Environmental Pollution</i> , 2020, 264, 114773.	3.7	82
13	Sustainable applications of rice feedstock in agro-environmental and construction sectors: A global perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111791.	8.2	78
14	Thermodynamic modeling of ferric phosphate precipitation for phosphorus removal and recovery from wastewater. <i>Journal of Hazardous Materials</i> , 2010, 176, 444-450.	6.5	73
15	Ammonium nitrogen recovery from digestate by hydrothermal pretreatment followed by activated hydrochar sorption. <i>Chemical Engineering Journal</i> , 2020, 379, 122254.	6.6	69
16	Phosphorus recovered from digestate by hydrothermal processes with struvite crystallization and its potential as a fertilizer. <i>Science of the Total Environment</i> , 2020, 698, 134240.	3.9	69
17	Mechanisms and modelling of phosphorus solid-liquid transformation during the hydrothermal processing of swine manure. <i>Green Chemistry</i> , 2020, 22, 5628-5638.	4.6	68
18	High-efficient adsorption of phosphates from water by hierarchical CuAl/biomass carbon fiber layered double hydroxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 555, 314-323.	2.3	63

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19	Struvite pyrolysate cycling technology assisted by thermal hydrolysis pretreatment to recover ammonium nitrogen from composting leachate. <i>Journal of Cleaner Production</i> , 2020, 242, 118442.	4.6	60
20	Manganese oxide-modified biochar: production, characterization and applications for the removal of pollutants from aqueous environments - a review. <i>Bioresource Technology</i> , 2022, 346, 126581.	4.8	60
21	Swine manure valorization for phosphorus and nitrogen recovery by catalytic thermal hydrolysis and struvite crystallization. <i>Science of the Total Environment</i> , 2020, 729, 138999.	3.9	53
22	Dynamics of nitrogen transformation depending on different operational strategies in laboratory-scale tidal flow constructed wetlands. <i>Science of the Total Environment</i> , 2014, 487, 49-56.	3.9	46
23	Microwave digestion-assisted HFO/biochar adsorption to recover phosphorus from swine manure. <i>Science of the Total Environment</i> , 2018, 621, 1512-1526.	3.9	46
24	Phosphorus recovery from biogas slurry by ultrasound/H ₂ O ₂ digestion coupled with HFO/biochar adsorption process. <i>Waste Management</i> , 2017, 60, 219-229.	3.7	45
25	Modeling assessment for ammonium nitrogen recovery from wastewater by chemical precipitation. <i>Journal of Environmental Sciences</i> , 2011, 23, 881-890.	3.2	37
26	Effects of microorganism-mediated inoculants on humification processes and phosphorus dynamics during the aerobic composting of swine manure. <i>Journal of Hazardous Materials</i> , 2021, 416, 125738.	6.5	37
27	Almond and walnut shell-derived biochars affect sorption-desorption, fractionation, and release of phosphorus in two different soils. <i>Chemosphere</i> , 2020, 241, 124888.	4.2	33
28	Microbial inoculants and struvite improved organic matter humification and stabilized phosphorus during swine manure composting: Multivariate and multiscale investigations. <i>Bioresource Technology</i> , 2022, 351, 126976.	4.8	29
29	Phosphate enhance recovery from wastewater by mechanism analysis and optimization of struvite settleability in fluidized bed reactor. <i>Scientific Reports</i> , 2016, 6, 32215.	1.6	23
30	Phosphate recovery from animal manure wastewater by struvite crystallization and CO ₂ degasification reactor. <i>Ecological Chemistry and Engineering S</i> , 2014, 21, 89-99.	0.3	19
31	Microwave-assisted digestion and NaOH treatment of waste-activated sludge to recover phosphorus by crystallizing struvite. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 1211-1222.	1.2	15
32	Impact of catalytic hydrothermal treatment and Ca/Al-modified hydrochar on lability, sorption, and speciation of phosphorus in swine manure: Microscopic and spectroscopic investigations. <i>Environmental Pollution</i> , 2022, 299, 118877.	3.7	15
33	Innovations of phosphorus sustainability: implications for the whole chain. <i>Frontiers of Agricultural Science and Engineering</i> , 2019, 6, 321.	0.9	14
34	Biochar Adsorption Treatment for Typical Pollutants Removal in Livestock Wastewater: A Review. , 0, , .		13
35	Phosphorus Recovery by Struvite Crystallization from Livestock Wastewater and Reuse as Fertilizer: A Review. , 0, , .		10
36	Recovery of Phosphorus From Swine Manure by Ultrasound/H ₂ O ₂ Digestion, Struvite Crystallization, and Ferric Oxide Hydrate/Biochar Adsorption. <i>Frontiers in Chemistry</i> , 2018, 6, 464.	1.8	10

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37	The current phosphate recycling situation in China and Germany: a comparative review. <i>Frontiers of Agricultural Science and Engineering</i> , 2019, 6, 403.	0.9	7
38	Ammonium Nitrogen Removal from Wastewater by Biochar Adsorption. <i>Advanced Materials Research</i> , 0, 726-731, 1679-1682.	0.3	3
39	Application of Biochar for Phosphate Adsorption and Recovery from Wastewater. <i>Advanced Materials Research</i> , 2013, 750-752, 1389-1392.	0.3	3
40	Assessment of Phosphorus Recovery from Swine Wastewater in Beijing, China. <i>Sustainability</i> , 2017, 9, 1845.	1.6	3
41	Effects of Organic Coexisting Impurities on Phosphorus Recovery from Animal Manure Wastewater by Struvite Crystallization. <i>Advanced Materials Research</i> , 0, 955-959, 1983-1986.	0.3	2
42	Adsorption and degradation of 2,4-dichlorophenoxyacetic acid in spiked soil with FeO nanoparticles supported by biochar. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2015, 65, 215-221.	0.3	2
43	Hydrothermal Process for Extracting Phosphate from Animal Manure. , 2019, , 377-389.		2
44	Nutrient Recovery from Piggy Wastewater by Enhancing Struvite Crystallization Process. <i>Applied Mechanics and Materials</i> , 0, 522-524, 579-583.	0.2	0
45	PH-sensitive dispersion of carbon nanotubes by myoglobin. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0