Yuqing Sun

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7670746/publications.pdf

Version: 2024-02-01

55	5,764	76196	155451
papers	citations	40 h-index	55 g-index

57	57	57	4709
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multifunctional iron-biochar composites for the removal of potentially toxic elements, inherent cations, and hetero-chloride from hydraulic fracturing wastewater. Environment International, 2019, 124, 521-532.	4.8	384
2	Algae as potential feedstock for the production of biofuels and value-added products: Opportunities and challenges. Science of the Total Environment, 2020, 716, 137116.	3.9	299
3	Ball milling as a mechanochemical technology for fabrication of novel biochar nanomaterials. Bioresource Technology, 2020, 312, 123613.	4.8	293
4	Fabrication and characterization of hydrophilic corn stalk biochar-supported nanoscale zero-valent iron composites for efficient metal removal. Bioresource Technology, 2018, 265, 490-497.	4.8	267
5	Biochar-supported nanoscale zero-valent iron as an efficient catalyst for organic degradation in groundwater. Journal of Hazardous Materials, 2020, 383, 121240.	6.5	266
6	Formation, characteristics, and applications of environmentally persistent free radicals in biochars: A review. Bioresource Technology, 2019, 281, 457-468.	4.8	251
7	Environmental transformations and ecological effects of iron-based nanoparticles. Environmental Pollution, 2018, 232, 10-30.	3.7	249
8	Assembling biochar with various layered double hydroxides for enhancement of phosphorus recovery. Journal of Hazardous Materials, 2019, 365, 665-673.	6.5	216
9	A sustainable biochar catalyst synergized with copper heteroatoms and CO₂ for singlet oxygenation and electron transfer routes. Green Chemistry, 2019, 21, 4800-4814.	4.6	188
10	Fabrication and environmental applications of multifunctional mixed metal-biochar composites (MMBC) from red mud and lignin wastes. Journal of Hazardous Materials, 2019, 374, 412-419.	6.5	188
11	Bioremediation of water containing pesticides by microalgae: Mechanisms, methods, and prospects for future research. Science of the Total Environment, 2020, 707, 136080.	3.9	184
12	Thallium pollution in China and removal technologies for waters: A review. Environment International, 2019, 126, 771-790.	4.8	180
13	Roles of biochar-derived dissolved organic matter in soil amendment and environmental remediation: A critical review. Chemical Engineering Journal, 2021, 424, 130387.	6.6	167
14	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. Chemical Engineering Journal, 2020, 401, 126136.	6.6	158
15	Bacterial polyhydroxyalkanoates: Opportunities, challenges, and prospects. Journal of Cleaner Production, 2020, 263, 121500.	4.6	145
16	Critical impacts of pyrolysis conditions and activation methods on application-oriented production of wood waste-derived biochar. Bioresource Technology, 2021, 341, 125811.	4.8	121
17	Optimizing the synthesis of Fe/Al (Hydr)oxides-Biochars to maximize phosphate removal via response surface model. Journal of Cleaner Production, 2019, 237, 117770.	4.6	119
18	A critical review of risks, characteristics, and treatment strategies for potentially toxic elements in wastewater from shale gas extraction. Environment International, 2019, 125, 452-469.	4.8	112

#	Article	IF	Citations
19	Critical Impact of Nitrogen Vacancies in Nonradical Carbocatalysis on Nitrogen-Doped Graphitic Biochar. Environmental Science & Technology, 2021, 55, 7004-7014.	4.6	112
20	Sustainable remediation with an electroactive biochar system: mechanisms and perspectives. Green Chemistry, 2020, 22, 2688-2711.	4.6	109
21	Tailored design of graphitic biochar for high-efficiency and chemical-free microwave-assisted removal of refractory organic contaminants. Chemical Engineering Journal, 2020, 398, 125505.	6.6	96
22	Nanoscale zero-valent iron for metal/metalloid removal from model hydraulic fracturing wastewater. Chemosphere, 2017, 176, 315-323.	4.2	93
23	Critical Review on Biocharâ€Supported Catalysts for Pollutant Degradation and Sustainable Biorefinery. Advanced Sustainable Systems, 2020, 4, 1900149.	2.7	93
24	Degradation of antibiotics by modified vacuum-UV based processes: Mechanistic consequences of H2O2 and K2S2O8 in the presence of halide ions. Science of the Total Environment, 2019, 664, 312-321.	3.9	92
25	A novel electrochemical modification combined with one-step pyrolysis for preparation of sustainable thorn-like iron-based biochar composites. Bioresource Technology, 2019, 274, 379-385.	4.8	89
26	Insights into the adsorption of pharmaceuticals and personal care products (PPCPs) on biochar and activated carbon with the aid of machine learning. Journal of Hazardous Materials, 2022, 423, 127060.	6.5	82
27	Development of ozonation and reactive electrochemical membrane coupled process: Enhanced tetracycline mineralization and toxicity reduction. Chemical Engineering Journal, 2020, 383, 123149.	6.6	81
28	Waste-derived compost and biochar amendments for stormwater treatment in bioretention column: Co-transport of metals and colloids. Journal of Hazardous Materials, 2020, 383, 121243.	6.5	75
29	Distribution, behaviour, bioavailability and remediation of poly- and per-fluoroalkyl substances (PFAS) in solid biowastes and biowaste-treated soil. Environment International, 2021, 155, 106600.	4.8	74
30	Fe/Al (hydr)oxides engineered biochar for reducing phosphorus leaching from a fertile calcareous soil. Journal of Cleaner Production, 2021, 279, 123877.	4.6	72
31	Electroactive Fe-biochar for redox-related remediation of arsenic and chromium: Distinct redox nature with varying iron/carbon speciation. Journal of Hazardous Materials, 2022, 430, 128479.	6.5	67
32	Unraveling iron speciation on Fe-biochar with distinct arsenic removal mechanisms and depth distributions of As and Fe. Chemical Engineering Journal, 2021, 425, 131489.	6.6	63
33	Comparing biochar- and bentonite-supported Fe-based catalysts for selective degradation of antibiotics: Mechanisms and pathway. Environmental Research, 2020, 183, 109156.	3.7	61
34	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. Journal of Cleaner Production, 2021, 289, 125142.	4.6	56
35	Aging effects on chemical transformation and metal(loid) removal by entrapped nanoscale zero-valent iron for hydraulic fracturing wastewater treatment. Science of the Total Environment, 2018, 615, 498-507.	3.9	55
36	Potential impact of flowback water from hydraulic fracturing on agricultural soil quality: Metal/metalloid bioaccessibility, Microtox bioassay, and enzyme activities. Science of the Total Environment, 2017, 579, 1419-1426.	3.9	54

#	Article	IF	Citations
37	Fabrication of L-cysteine stabilized Î±-FeOOH nanocomposite on porous hydrophilic biochar as an effective adsorbent for Pb2+ removal. Science of the Total Environment, 2020, 720, 137415.	3.9	54
38	Tailored design of food waste hydrochar for efficient adsorption and catalytic degradation of refractory organic contaminant. Journal of Cleaner Production, 2021, 310, 127482.	4.6	52
39	Sustainable impact of tartaric acid as electron shuttle on hierarchical iron-incorporated biochar. Chemical Engineering Journal, 2020, 395, 125138.	6.6	46
40	Removal of chlorinated organic solvents from hydraulic fracturing wastewater by bare and entrapped nanoscale zero-valent iron. Chemosphere, 2018, 196, 9-17.	4.2	45
41	Current progress in treatment techniques of triclosan from wastewater: A review. Science of the Total Environment, 2019, 696, 133990.	3.9	39
42	Zero-valent iron for the abatement of arsenate and selenate from flowback water of hydraulic fracturing. Chemosphere, 2017, 167, 163-170.	4.2	33
43	Interactions between biochar and clay minerals in changing biochar carbon stability. Science of the Total Environment, 2022, 809, 151124.	3.9	33
44	The roles of suspended solids in persulfate/Fe2+ treatment of hydraulic fracturing wastewater: Synergistic interplay of inherent wastewater components. Chemical Engineering Journal, 2020, 388, 124243.	6.6	29
45	Performance indicators for a holistic evaluation of catalyst-based degradationâ€"A case study of selected pharmaceuticals and personal care products (PPCPs). Journal of Hazardous Materials, 2021, 402, 123460.	6.5	26
46	Insights into the subsurface transport of As(V) and Se(VI) in produced water from hydraulic fracturing using soil samples from Qingshankou Formation, Songliao Basin, China. Environmental Pollution, 2017, 223, 449-456.	3.7	25
47	Stoichiometric carbocatalysis via epoxide-like Cå^'Sâ^'O configuration on sulfur-doped biochar for environmental remediation. Journal of Hazardous Materials, 2022, 428, 128223.	6.5	25
48	Efficacy and limitations of low-cost adsorbents for in-situ stabilisation of contaminated marine sediment. Journal of Cleaner Production, 2019, 212, 420-427.	4.6	23
49	Biotechnology for soil decontamination: opportunity, challenges, and prospects for pesticide biodegradation. , 2020, , 261-283.		23
50	Designing sustainable drainage systems in subtropical cities: Challenges and opportunities. Journal of Cleaner Production, 2021, 280, 124418.	4.6	22
51	Iron-crosslinked alginate derived Fe/C composites for atrazine removal from water. Science of the Total Environment, 2021, 756, 143866.	3.9	21
52	Sustainable use of biochar for resource recovery and pharmaceutical removal from human urine: A critical review. Critical Reviews in Environmental Science and Technology, 2021, 51, 3016-3048.	6.6	18
53	Synergistic utilization of inherent halides and alcohols in hydraulic fracturing wastewater for radical-based treatment: A case study of di-(2-ethylhexyl) phthalate removal. Journal of Hazardous Materials, 2020, 384, 121321.	6.5	16
54	Size-activity threshold of titanium dioxide-supported Cu cluster in CO oxidation. Environmental Pollution, 2021, 279, 116899.	3.7	12

#	Article	IF	Citations
55	Vinasse-based biochar magnetic composites: adsorptive removal of tetracycline in aqueous solutions. Environmental Science and Pollution Research, 2023, 30, 8916-8927.	2.7	5