

# Yuqing Sun

## List of Publications by Citations

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56

papers

3,265

citations

32

h-index

57

g-index

57

ext. papers

4,461

ext. citations

11

avg. IF

6.14

L-index

#	Paper	IF	Citations
56	Multifunctional iron-biochar composites for the removal of potentially toxic elements, inherent cations, and hetero-chloride from hydraulic fracturing wastewater. <i>Environment International</i> , <b>2019</b> , 124, 521-532	12.9	287
55	Environmental transformations and ecological effects of iron-based nanoparticles. <i>Environmental Pollution</i> , <b>2018</b> , 232, 10-30	9.3	184
54	Fabrication and characterization of hydrophilic corn stalk biochar-supported nanoscale zero-valent iron composites for efficient metal removal. <i>Bioresource Technology</i> , <b>2018</b> , 265, 490-497	11	176
53	Algae as potential feedstock for the production of biofuels and value-added products: Opportunities and challenges. <i>Science of the Total Environment</i> , <b>2020</b> , 716, 137116	10.2	168
52	Biochar-supported nanoscale zero-valent iron as an efficient catalyst for organic degradation in groundwater. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 383, 121240	12.8	149
51	Formation, characteristics, and applications of environmentally persistent free radicals in biochars: A review. <i>Bioresource Technology</i> , <b>2019</b> , 281, 457-468	11	142
50	Assembling biochar with various layered double hydroxides for enhancement of phosphorus recovery. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 365, 665-673	12.8	136
49	A sustainable biochar catalyst synergized with copper heteroatoms and CO <sub>2</sub> for singlet oxygenation and electron transfer routes. <i>Green Chemistry</i> , <b>2019</b> , 21, 4800-4814	10	133
48	Ball milling as a mechanochemical technology for fabrication of novel biochar nanomaterials. <i>Bioresource Technology</i> , <b>2020</b> , 312, 123613	11	124
47	Fabrication and environmental applications of multifunctional mixed metal-biochar composites (MMBC) from red mud and lignin wastes. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 374, 412-419	12.8	114
46	Bioremediation of water containing pesticides by microalgae: Mechanisms, methods, and prospects for future research. <i>Science of the Total Environment</i> , <b>2020</b> , 707, 136080	10.2	112
45	Thallium pollution in China and removal technologies for waters: A review. <i>Environment International</i> , <b>2019</b> , 126, 771-790	12.9	103
44	Nanoscale zero-valent iron for metal/metalloid removal from model hydraulic fracturing wastewater. <i>Chemosphere</i> , <b>2017</b> , 176, 315-323	8.4	80
43	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. <i>Chemical Engineering Journal</i> , <b>2020</b> , 401, 126136	14.7	78
42	Degradation of antibiotics by modified vacuum-UV based processes: Mechanistic consequences of HO and KSO in the presence of halide ions. <i>Science of the Total Environment</i> , <b>2019</b> , 664, 312-321	10.2	75
41	Optimizing the synthesis of Fe/Al (Hydr)oxides-Biochars to maximize phosphate removal via response surface model. <i>Journal of Cleaner Production</i> , <b>2019</b> , 237, 117770	10.3	74
40	A critical review of risks, characteristics, and treatment strategies for potentially toxic elements in wastewater from shale gas extraction. <i>Environment International</i> , <b>2019</b> , 125, 452-469	12.9	69

39	A novel electrochemical modification combined with one-step pyrolysis for preparation of sustainable thorn-like iron-based biochar composites. <i>Bioresource Technology</i> , <b>2019</b> , 274, 379-385	11	69
38	Bacterial polyhydroxyalkanoates: Opportunities, challenges, and prospects. <i>Journal of Cleaner Production</i> , <b>2020</b> , 263, 121500	10.3	67
37	Roles of biochar-derived dissolved organic matter in soil amendment and environmental remediation: A critical review. <i>Chemical Engineering Journal</i> , <b>2021</b> , 424, 130387	14.7	65
36	Sustainable remediation with an electroactive biochar system: mechanisms and perspectives. <i>Green Chemistry</i> , <b>2020</b> , 22, 2688-2711	10	64
35	Tailored design of graphitic biochar for high-efficiency and chemical-free microwave-assisted removal of refractory organic contaminants. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125505	14.7	61
34	Potential impact of flowback water from hydraulic fracturing on agricultural soil quality: Metal/metalloid bioaccessibility, Microtox bioassay, and enzyme activities. <i>Science of the Total Environment</i> , <b>2017</b> , 579, 1419-1426	10.2	48
33	Waste-derived compost and biochar amendments for stormwater treatment in bioretention column: Co-transport of metals and colloids. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 383, 121243	12.8	48
32	Aging effects on chemical transformation and metal(loid) removal by entrapped nanoscale zero-valent iron for hydraulic fracturing wastewater treatment. <i>Science of the Total Environment</i> , <b>2018</b> , 615, 498-507	10.2	47
31	Critical Review on Biochar-Supported Catalysts for Pollutant Degradation and Sustainable Biorefinery. <i>Advanced Sustainable Systems</i> , <b>2020</b> , 4, 1900149	5.9	44
30	Removal of chlorinated organic solvents from hydraulic fracturing wastewater by bare and entrapped nanoscale zero-valent iron. <i>Chemosphere</i> , <b>2018</b> , 196, 9-17	8.4	40
29	Development of ozonation and reactive electrochemical membrane coupled process: Enhanced tetracycline mineralization and toxicity reduction. <i>Chemical Engineering Journal</i> , <b>2020</b> , 383, 123149	14.7	40
28	Comparing biochar- and bentonite-supported Fe-based catalysts for selective degradation of antibiotics: Mechanisms and pathway. <i>Environmental Research</i> , <b>2020</b> , 183, 109156	7.9	38
27	Fe/Al (hydr)oxides engineered biochar for reducing phosphorus leaching from a fertile calcareous soil. <i>Journal of Cleaner Production</i> , <b>2021</b> , 279, 123877	10.3	36
26	Critical Impact of Nitrogen Vacancies in Nonradical Carbocatalysis on Nitrogen-Doped Graphitic Biochar. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 7004-7014	10.3	34
25	Fabrication of L-cysteine stabilized FeOOH nanocomposite on porous hydrophilic biochar as an effective adsorbent for Pb removal. <i>Science of the Total Environment</i> , <b>2020</b> , 720, 137415	10.2	32
24	Sustainable impact of tartaric acid as electron shuttle on hierarchical iron-incorporated biochar. <i>Chemical Engineering Journal</i> , <b>2020</b> , 395, 125138	14.7	30
23	Zero-valent iron for the abatement of arsenate and selenate from flowback water of hydraulic fracturing. <i>Chemosphere</i> , <b>2017</b> , 167, 163-170	8.4	29
22	Critical impacts of pyrolysis conditions and activation methods on application-oriented production of wood waste-derived biochar. <i>Bioresource Technology</i> , <b>2021</b> , 341, 125811	11	29

21	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. <i>Journal of Cleaner Production</i> , <b>2021</b> , 289, 125142	10.3	25
20	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. <i>Environmental Pollution</i> , <b>2017</b> , 223, 449-456	9.3	22
19	Current progress in treatment techniques of triclosan from wastewater: A review. <i>Science of the Total Environment</i> , <b>2019</b> , 696, 133990	10.2	19
18	Performance indicators for a holistic evaluation of catalyst-based degradation-A case study of selected pharmaceuticals and personal care products (PPCPs). <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123460	12.8	17
17	Distribution, behaviour, bioavailability and remediation of poly- and per-fluoroalkyl substances (PFAS) in solid biowastes and biowaste-treated soil. <i>Environment International</i> , <b>2021</b> , 155, 106600	12.9	17
16	The roles of suspended solids in persulfate/Fe <sup>2+</sup> treatment of hydraulic fracturing wastewater: Synergistic interplay of inherent wastewater components. <i>Chemical Engineering Journal</i> , <b>2020</b> , 388, 124243	14.7	16
15	Efficacy and limitations of low-cost adsorbents for in-situ stabilisation of contaminated marine sediment. <i>Journal of Cleaner Production</i> , <b>2019</b> , 212, 420-427	10.3	16
14	Tailored design of food waste hydrochar for efficient adsorption and catalytic degradation of refractory organic contaminant. <i>Journal of Cleaner Production</i> , <b>2021</b> , 310, 127482	10.3	16
13	Synergistic utilization of inherent halides and alcohols in hydraulic fracturing wastewater for radical-based treatment: A case study of di-(2-ethylhexyl) phthalate removal. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121321	12.8	14
12	Unraveling iron speciation on Fe-biochar with distinct arsenic removal mechanisms and depth distributions of As and Fe. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 131489	14.7	14
11	Insights into the adsorption of pharmaceuticals and personal care products (PPCPs) on biochar and activated carbon with the aid of machine learning. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 127060	12.8	13
10	Designing sustainable drainage systems in subtropical cities: Challenges and opportunities. <i>Journal of Cleaner Production</i> , <b>2021</b> , 280, 124418	10.3	11
9	Biotechnology for soil decontamination: opportunity, challenges, and prospects for pesticide biodegradation <b>2020</b> , 261-283		9
8	Iron-crosslinked alginate derived Fe/C composites for atrazine removal from water. <i>Science of the Total Environment</i> , <b>2021</b> , 756, 143866	10.2	8
7	Sustainable use of biochar for resource recovery and pharmaceutical removal from human urine: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2020</b> , 1-33	11.1	7
6	Size-activity threshold of titanium dioxide-supported Cu cluster in CO oxidation. <i>Environmental Pollution</i> , <b>2021</b> , 279, 116899	9.3	5
5	Electroactive Fe-biochar for redox-related remediation of arsenic and chromium: Distinct redox nature with varying iron/carbon speciation. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 430, 128479	12.8	3
4	Stoichiometric carbocatalysis via epoxide-like C-S-O configuration on sulfur-doped biochar for environmental remediation.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 428, 128223	12.8	2

- 3 Interactions between biochar and clay minerals in changing biochar carbon stability. *Science of the Total Environment*, **2021**, 809, 151124 10.2 2
- 2 Vinasse-based biochar magnetic composites: adsorptive removal of tetracycline in aqueous solutions.. *Environmental Science and Pollution Research*, **2022**, 1 5.1 1
- 1 Treatment Strategies for Wastewater from Hydraulic Fracturing **2020**, 223-242