

# Yanfang Feng

## List of Publications by Year in descending order

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63  
papers

2,300  
citations

201674

27  
h-index

233421

45  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1689  
citing authors

#	ARTICLE	IF	CITATIONS
1	Presence of microplastics alone and co-existence with hydrochar unexpectedly mitigate ammonia volatilization from rice paddy soil and affect structure of soil microbiome. <i>Journal of Hazardous Materials</i> , 2022, 422, 126831.	12.4	36
2	Influence of polyethylene terephthalate microplastic and biochar co-existence on paddy soil bacterial community structure and greenhouse gas emission. <i>Environmental Pollution</i> , 2022, 292, 118386.	7.5	53
3	Assessment of livestock manure-derived hydrochar as cleaner products: Insights into basic properties, nutrient composition, and heavy metal content. <i>Journal of Cleaner Production</i> , 2022, 330, 129820.	9.3	29
4	How does biochar aging affect NH <sub>3</sub> volatilization and GHGs emissions from agricultural soils?. <i>Environmental Pollution</i> , 2022, 294, 118598.	7.5	36
5	Phosphate removal from actual wastewater via La(OH) <sub>3</sub> -C <sub>3</sub> N <sub>4</sub> adsorption: Performance, mechanisms and applicability. <i>Science of the Total Environment</i> , 2022, 814, 152791.	8.0	28
6	Polyester Microplastic Mitigated NH <sub>3</sub> Volatilization from a Rice-Wheat Rotation System: Does Particle Size or Natural Aging Effect Matter?. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2180-2191.	6.7	25
7	Waste-based hydrothermal carbonization aqueous phase substitutes urea for rice paddy return: Improved soil fertility and grain yield. <i>Journal of Cleaner Production</i> , 2022, 344, 131135.	9.3	16
8	Ammonia volatilization mitigation in crop farming: A review of fertilizer amendment technologies and mechanisms. <i>Chemosphere</i> , 2022, 303, 134944.	8.2	24
9	Clay-hydrochar composites return to cadmium contaminated paddy soil: Reduced Cd accumulation in rice seed and affected soil microbiome. <i>Science of the Total Environment</i> , 2022, 835, 155542.	8.0	14
10	Efficient Disposal of the Aqueous Products of Wet Organic Waste Hydrothermal Carbonization by Paddy Constructed Wetlands. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 1651-1664.	7.6	11
11	Hydrochar-embedded carboxymethyl cellulose-g-poly(acrylic acid) hydrogel as stable soil water retention and nutrient release agent for plant growth. <i>Journal of Bioresources and Bioproducts</i> , 2022, 7, 116-127.	20.5	31
12	Responses of rice ( <i>Oryza sativa</i> L.) plant growth, grain yield and quality, and soil properties to the microplastic occurrence in paddy soil. <i>Journal of Soils and Sediments</i> , 2022, 22, 2174-2183.	3.0	23
13	Unraveling natural aging-induced properties change of sludge-derived hydrochar and enhanced cadmium sorption site heterogeneity. <i>Biochar</i> , 2022, 4, .	12.6	13
14	Hydrochar and microplastics disturb soil dissolved organic matter and prominently mitigate ammonia volatilization from wheat growing soil. <i>Applied Soil Ecology</i> , 2022, 178, 104552.	4.3	13
15	Soil structures and immobilization of typical contaminants in soils in response to diverse microplastics. <i>Journal of Hazardous Materials</i> , 2022, 438, 129555.	12.4	20
16	Water quality and periphyton functional response to input of dissolved manure-derived hydrochars (DHCs). <i>Journal of Environmental Management</i> , 2022, 318, 115541.	7.8	4
17	Anaerobic fermentation treatment improved Cd <sup>2+</sup> adsorption of different feedstocks based hydrochars. <i>Chemosphere</i> , 2021, 263, 127981.	8.2	18
18	Hydrothermal carbonization of microalgae for phosphorus recycling from wastewater to crop-soil systems as slow-release fertilizers. <i>Journal of Cleaner Production</i> , 2021, 283, 124627.	9.3	33

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19	Insights into the molecular transformation in the dissolved organic compounds of agro-waste-hydrochars by microbial-aging using electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Bioresource Technology</i> , 2021, 320, 124411.	9.6	15
20	Physicochemical properties of aged hydrochar in a rice-wheat rotation system: A 16-month observation. <i>Environmental Pollution</i> , 2021, 272, 116037.	7.5	18
21	Nitrogen fertilizer reduction in combination with <i>Azolla</i> cover for reducing ammonia volatilization and improving nitrogen use efficiency of rice. <i>PeerJ</i> , 2021, 9, e11077.	2.0	9
22	Water-washed hydrochar in rice paddy soil reduces N <sub>2</sub> O and CH <sub>4</sub> emissions: A whole growth period investigation. <i>Environmental Pollution</i> , 2021, 274, 116573.	7.5	20
23	Raw material of water-washed hydrochar was critical for the mitigation of GHGI in infertile paddy soil: a column experiment. <i>Biochar</i> , 2021, 3, 381-390.	12.6	13
24	Impact of biochar amendment on soil aggregation varied with incubation duration and biochar pyrolysis temperature. <i>Biochar</i> , 2021, 3, 339-347.	12.6	30
25	Insights into the mechanism of peroxydisulfate activated by magnetic spinel CuFe <sub>2</sub> O <sub>4</sub> /SBC as a heterogeneous catalyst for bisphenol S degradation. <i>Chemical Engineering Journal</i> , 2021, 416, 129162.	12.7	67
26	Biowaste hydrothermal carbonization aqueous product application in rice paddy: Focus on rice growth and ammonia volatilization. <i>Chemosphere</i> , 2021, 277, 130233.	8.2	21
27	Clay-hydrochar composites mitigated CH <sub>4</sub> and N <sub>2</sub> O emissions from paddy soil: A whole rice growth period investigation. <i>Science of the Total Environment</i> , 2021, 780, 146532.	8.0	19
28	Deep fertilization with controlled-release fertilizer for higher cereal yield and N utilization in paddies: The optimal fertilization depth. <i>Agronomy Journal</i> , 2021, 113, 5027-5039.	1.8	14
29	The inhibiting effects of biochar-derived organic materials on rice production. <i>Journal of Environmental Management</i> , 2021, 293, 112909.	7.8	13
30	Co-application of biogas slurry and hydrothermal carbonization aqueous phase substitutes urea as the nitrogen fertilizer and mitigates ammonia volatilization from paddy soil. <i>Environmental Pollution</i> , 2021, 287, 117340.	7.5	16
31	Chemical aging of hydrochar improves the Cd <sup>2+</sup> adsorption capacity from aqueous solution. <i>Environmental Pollution</i> , 2021, 287, 117562.	7.5	28
32	Responses of ammonia volatilization from rice paddy soil to application of wood vinegar alone or combined with biochar. <i>Chemosphere</i> , 2020, 242, 125247.	8.2	50
33	Microbial aging of hydrochar as a way to increase cadmium ion adsorption capacity: Process and mechanism. <i>Bioresource Technology</i> , 2020, 300, 122708.	9.6	52
34	Sewage sludge-derived hydrochar that inhibits ammonia volatilization, improves soil nitrogen retention and rice nitrogen utilization. <i>Chemosphere</i> , 2020, 245, 125558.	8.2	51
35	Win-win: Application of sawdust-derived hydrochar in low fertility soil improves rice yield and reduces greenhouse gas emissions from agricultural ecosystems. <i>Science of the Total Environment</i> , 2020, 748, 142457.	8.0	35
36	Wood vinegar and biochar co-application mitigates nitrous oxide and methane emissions from rice paddy soil: A two-year experiment. <i>Environmental Pollution</i> , 2020, 267, 115403.	7.5	26

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37	Combining Azolla and urease inhibitor to reduce ammonia volatilization and increase nitrogen use efficiency and grain yield of rice. <i>Science of the Total Environment</i> , 2020, 743, 140799.	8.0	44
38	High yield and mitigation of N-loss from paddy fields obtained by irrigation using optimized application of sewage tail water. <i>Agriculture, Ecosystems and Environment</i> , 2020, 304, 107137.	5.3	8
39	Hydrochar reduced NH <sub>3</sub> volatilization from rice paddy soil: Microbial-aging rather than water-washing is recommended before application. <i>Journal of Cleaner Production</i> , 2020, 268, 122233.	9.3	34
40	Bentonite hydrochar composites mitigate ammonia volatilization from paddy soil and improve nitrogen use efficiency. <i>Science of the Total Environment</i> , 2020, 718, 137301.	8.0	47
41	Application of Hydrochar Altered Soil Microbial Community Composition and the Molecular Structure of Native Soil Organic Carbon in a Paddy Soil. <i>Environmental Science &amp; Technology</i> , 2020, 54, 2715-2725.	10.0	111
42	Microalgae-derived hydrochar application on rice paddy soil: Higher rice yield but increased gaseous nitrogen loss. <i>Science of the Total Environment</i> , 2020, 717, 137127.	8.0	44
43	Minerals loaded with oxygen nanobubbles mitigate arsenic translocation from paddy soils to rice. <i>Journal of Hazardous Materials</i> , 2020, 398, 122818.	12.4	20
44	Effect of Pyrochar and Hydrochar on Water Evaporation in Clayey Soil under Greenhouse Cultivation. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2580.	2.6	9
45	Floating duckweed mitigated ammonia volatilization and increased grain yield and nitrogen use efficiency of rice in biochar amended paddy soils. <i>Chemosphere</i> , 2019, 237, 124532.	8.2	38
46	Biowaste to treasure: Application of microbial-aged hydrochar in rice paddy could improve nitrogen use efficiency and rice grain free amino acids. <i>Journal of Cleaner Production</i> , 2019, 240, 118180.	9.3	56
47	Cerium-modified biochar: A recycling biomaterial for regulating phosphorus availability in paddy ecosystem from coastal mudflat reclamation. <i>Geoderma</i> , 2019, 346, 43-51.	5.1	20
48	Composition of a Soil Organic Carbon Increment under Different Vegetable Cultivation Patterns: A Study Using Three SOC Pools. <i>Sustainability</i> , 2019, 11, 35.	3.2	4
49	Fabrication of hydrochar based on food waste (FWHTC) and its application in aqueous solution rare earth ions adsorptive removal: Process, mechanisms and disposal methodology. <i>Journal of Cleaner Production</i> , 2019, 212, 1423-1433.	9.3	43
50	Greenhouse gas emissions vary in response to different biochar amendments: an assessment based on two consecutive rice growth cycles. <i>Environmental Science and Pollution Research</i> , 2019, 26, 749-758.	5.3	21
51	Impact of hydrochar on rice paddy CH <sub>4</sub> and N <sub>2</sub> O emissions: A comparative study with pyrochar. <i>Chemosphere</i> , 2018, 204, 474-482.	8.2	50
52	Sawdust biochar application to rice paddy field: reduced nitrogen loss in floodwater accompanied with increased NH <sub>3</sub> volatilization. <i>Environmental Science and Pollution Research</i> , 2018, 25, 8388-8395.	5.3	24
53	Biochar application mode influences nitrogen leaching and NH <sub>3</sub> volatilization losses in a rice paddy soil irrigated with N-rich wastewater. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2090-2096.	2.2	22
54	N <sub>2</sub> O and CH <sub>4</sub> emissions from N-fertilized rice paddy soil can be mitigated by wood vinegar application at an appropriate rate. <i>Atmospheric Environment</i> , 2018, 185, 153-158.	4.1	35

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55	Carboxylic acid functionalized sesame straw: A sustainable cost-effective bioadsorbent with superior dye adsorption capacity. <i>Bioresource Technology</i> , 2017, 238, 675-683.	9.6	83
56	Biochar applied at an appropriate rate can avoid increasing NH <sub>3</sub> volatilization dramatically in rice paddy soil. <i>Chemosphere</i> , 2017, 168, 1277-1284.	8.2	120
57	Purification of Dye-stuff Contained Wastewater by a Hybrid Adsorption-Periphyton Reactor (HAPR): Performance and Mechanisms. <i>Scientific Reports</i> , 2017, 7, 9635.	3.3	8
58	Nano-cerium oxide functionalized biochar for phosphate retention: preparation, optimization and rice paddy application. <i>Chemosphere</i> , 2017, 185, 816-825.	8.2	78
59	Responses of periphyton morphology, structure, and function to extreme nutrient loading. <i>Environmental Pollution</i> , 2016, 214, 878-884.	7.5	20
60	Controlled-release fertilizer, floating duckweed, and biochar affect ammonia volatilization and nitrous oxide emission from rice paddy fields irrigated with nitrogen-rich wastewater. <i>Paddy and Water Environment</i> , 2016, 14, 105-111.	1.8	55
61	Adsorption of dyestuff from aqueous solutions through oxalic acid-modified swede rape straw: Adsorption process and disposal methodology of depleted bioadsorbents. <i>Bioresource Technology</i> , 2013, 138, 191-197.	9.6	111
62	Methylene blue adsorption onto swede rape straw ( <i>Brassica napus</i> L.) modified by tartaric acid: Equilibrium, kinetic and adsorption mechanisms. <i>Bioresource Technology</i> , 2012, 125, 138-144.	9.6	150
63	Basic dye adsorption onto an agro-based waste material “ Sesame hull ( <i>Sesamum indicum</i> L.). <i>Bioresource Technology</i> , 2011, 102, 10280-10285.	9.6	121