

Jun-Jian Wang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

1,190

citations

20

h-index

32

g-index

74

ext. papers

1,719

ext. citations

7.6

avg, IF

4.82

L-index

#	Paper	IF	Citations
67	Improved fluorescence excitation-emission matrix regional integration to quantify spectra for fluorescent dissolved organic matter. <i>Journal of Environmental Quality</i> , 2013 , 42, 925-30	3.4	85
66	Nonlinearity of root trait relationships and the root economics spectrum. <i>Nature Communications</i> , 2019 , 10, 2203	17.4	79
65	Disinfection byproduct formation from chlorination of pure bacterial cells and pipeline biofilms. <i>Water Research</i> , 2013 , 47, 2701-9	12.5	60
64	Wildfire altering terrestrial precursors of disinfection byproducts in forest detritus. <i>Environmental Science & Technology</i> , 2015 , 49, 5921-9	10.3	59
63	The nutrient absorption-transportation hypothesis: optimizing structural traits in absorptive roots. <i>New Phytologist</i> , 2017 , 213, 1569-1572	9.8	54
62	Fractionation and mobility risks of heavy metals and metalloids in wastewater-irrigated agricultural soils from greenhouses and fields in Gansu, China. <i>Geoderma</i> , 2018 , 328, 1-9	6.7	48
61	Long-term nitrogen addition suppresses microbial degradation, enhances soil carbon storage, and alters the molecular composition of soil organic matter. <i>Biogeochemistry</i> , 2019 , 142, 299-313	3.8	45
60	Dissolved organic matter and nutrient dynamics of a coastal freshwater forested wetland in Winyah Bay, South Carolina. <i>Biogeochemistry</i> , 2013 , 112, 571-587	3.8	42
59	Water quality of small seasonal wetlands in the Piedmont ecoregion, South Carolina, USA: Effects of land use and hydrological connectivity. <i>Water Research</i> , 2015 , 73, 98-108	12.5	41
58	Spatial-temporal and multi-media variations of polycyclic aromatic hydrocarbons in a highly urbanized river from South China. <i>Science of the Total Environment</i> , 2017 , 581-582, 621-628	10.2	39
57	Greenhouse cultivation mitigates metal-ingestion-associated health risks from vegetables in wastewater-irrigated agroecosystems. <i>Science of the Total Environment</i> , 2016 , 560-561, 204-11	10.2	39
56	Long-term litter manipulation alters soil organic matter turnover in a temperate deciduous forest. <i>Science of the Total Environment</i> , 2017 , 607-608, 865-875	10.2	33
55	Controlled Burning of Forest Detritus Altering Spectroscopic Characteristics and Chlorine Reactivity of Dissolved Organic Matter: Effects of Temperature and Oxygen Availability. <i>Environmental Science & Technology</i> , 2015 , 49, 14019-27	10.3	33
54	Economic strategies of plant absorptive roots vary with root diameter. <i>Biogeosciences</i> , 2016 , 13, 415-424	4.6	29
53	Fine root mercury heterogeneity: metabolism of lower-order roots as an effective route for mercury removal. <i>Environmental Science & Technology</i> , 2012 , 46, 769-77	10.3	28
52	Anthropogenic transformation of Yangtze Plain freshwater lakes: patterns, drivers and impacts. <i>Remote Sensing of Environment</i> , 2020 , 248, 111998	13.2	28
51	Phenolic profile within the fine-root branching orders of an evergreen species highlights a disconnect in root tissue quality predicted by elemental- and molecular-level carbon composition. <i>New Phytologist</i> , 2015 , 206, 1261-73	9.8	27

50	Spectroscopic and Molecular-Level Characteristics of Dissolved Organic Matter in a Highly Polluted Urban River in South China. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 2033-2044	3.2	26
49	Electrical energy production from forest detritus in a forested wetland using microbial fuel cells. <i>GCB Bioenergy</i> , 2015 , 7, 244-252	5.6	21
48	Differences in Riverine and Pond Water Dissolved Organic Matter Composition and Sources in Canadian High Arctic Watersheds Affected by Active Layer Detachments. <i>Environmental Science & Technology</i> , 2018 , 52, 1062-1071	10.3	21
47	Wildfire Burn Intensity Affects the Quantity and Speciation of Polycyclic Aromatic Hydrocarbons in Soils. <i>ACS Earth and Space Chemistry</i> , 2018 , 2, 1262-1270	3.2	20
46	Effects of biochar on soil microbial community and functional genes of a landfill cover three years after ecological restoration. <i>Science of the Total Environment</i> , 2020 , 717, 137133	10.2	19
45	Spectroscopic and molecular-level characteristics of dissolved organic matter in the Pearl River Estuary, South China. <i>Science of the Total Environment</i> , 2020 , 710, 136307	10.2	18
44	Dissolved organic matter characteristics in soils of tropical legume and non-legume tree plantations. <i>Soil Biology and Biochemistry</i> , 2020 , 148, 107880	7.5	17
43	Investigation of mercury levels in soil around a municipal solid waste incinerator in Shenzhen, China. <i>Environmental Earth Sciences</i> , 2011 , 64, 1001-1010	2.9	17
42	Temporal variations of disinfection byproduct precursors in wildfire detritus. <i>Water Research</i> , 2016 , 99, 66-73	12.5	17
41	Technical Note: Reactivity of C1 and C2 organohalogen formation ¶from plant litter to bacteria. <i>Biogeosciences</i> , 2012 , 9, 3721-3727	4.6	16
40	Soil Polycyclic Aromatic Hydrocarbons Across Urban Density Zones in Shenzhen, China: Occurrences, Source Apportionments, and Spatial Risk Assessment. <i>Pedosphere</i> , 2016 , 26, 676-686	5	16
39	Fine root branch orders contribute differentially to uptake, allocation, and return of potentially toxic metals. <i>Environmental Science & Technology</i> , 2013 , 47, 11465-72	10.3	15
38	Long-Term Nitrogen Addition Alters the Composition of Soil-Derived Dissolved Organic Matter. <i>ACS Earth and Space Chemistry</i> , 2020 , 4, 189-201	3.2	14
37	Dynamics of multiple elements in fast decomposing vegetable residues. <i>Science of the Total Environment</i> , 2018 , 616-617, 614-621	10.2	14
36	The influence of drought intensity on soil respiration during and after multiple drying-rewetting cycles. <i>Soil Biology and Biochemistry</i> , 2018 , 127, 82-89	7.5	13
35	Long-term Nitrogen Addition Decreases Organic Matter Decomposition and Increases Forest Soil Carbon. <i>Soil Science Society of America Journal</i> , 2019 , 83, S82	2.5	11
34	Haloform formation in coastal wetlands along a salinity gradient at South Carolina, United States. <i>Environmental Chemistry</i> , 2016 , 13, 745	3.2	11
33	Multiple roles of dissolved organic matter released from decomposing rice straw at different times in organic pollutant photodegradation. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123434	12.8	11

32	Conservation tillage for 17 years alters the molecular composition of organic matter in soil profile. <i>Science of the Total Environment</i> , 2021 , 762, 143116	10.2	11
31	Throughfall Dissolved Organic Matter as a Terrestrial Disinfection Byproduct Precursor. <i>ACS Earth and Space Chemistry</i> , 2019 , 3, 1603-1613	3.2	10
30	Chemodiversity of water-extractable organic matter in sediment columns of a polluted urban river in South China. <i>Science of the Total Environment</i> , 2021 , 777, 146127	10.2	10
29	Trihalomethanes in marine mammal aquaria: occurrences, sources, and health risks. <i>Water Research</i> , 2014 , 59, 219-28	12.5	9
28	A framework to assess the carbon supply-consumption balance in plant roots. <i>New Phytologist</i> , 2021 , 229, 659-664	9.8	9
27	Water quality dynamics of ephemeral wetlands in the Piedmont ecoregion, South Carolina, USA. <i>Ecological Engineering</i> , 2016 , 94, 555-563	3.9	8
26	Long-term biochar addition alters the characteristics but not the chlorine reactivity of soil-derived dissolved organic matter. <i>Water Research</i> , 2020 , 185, 116260	12.5	6
25	Prescribed Fire Alters Dissolved Organic Matter and Disinfection By-Product Precursors in Forested Watersheds - Part I. A Controlled Laboratory Study. <i>ACS Symposium Series</i> , 2015 , 271-292	0.4	5
24	Characteristics and chlorine reactivity of biochar-derived dissolved organic matter: Effects of feedstock type and pyrolysis temperature.. <i>Water Research</i> , 2022 , 211, 118044	12.5	5
23	Vetiver grass-microbe interactions for soil remediation. <i>Critical Reviews in Environmental Science and Technology</i> , 2021 , 51, 897-938	11.1	5
22	Dissolved Metal(loid) Concentrations and Their Relations with Chromophoric and Fluorescent Dissolved Organic Matter in an Urban River in Shenzhen, South China. <i>Water (Switzerland)</i> , 2020 , 12, 281 ³		4
21	Chlorination of soil-derived dissolved organic matter: Long term nitrogen deposition does not increase terrestrial precursors of toxic disinfection byproducts. <i>Water Research</i> , 2020 , 185, 116271	12.5	4
20	Soil Organic Carbon Signature under Impervious Surfaces. <i>ACS Earth and Space Chemistry</i> , 2020 , 4, 1785-1792	3.2	4
19	Aboveground litter inputs determine carbon storage across soil profiles: a meta-analysis. <i>Plant and Soil</i> , 2021 , 462, 429-444	4.2	4
18	Effects of mycorrhizal Bermuda grass on low-range soil matric suction. <i>Journal of Soils and Sediments</i> , 2021 , 21, 990-1000	3.4	3
17	Rhizosheaths stimulate short-term root decomposition in a semiarid grassland. <i>Science of the Total Environment</i> , 2018 , 640-641, 1297-1301	10.2	3
16	Coupling sprinkler freshwater irrigation with vegetable species selection as a sustainable approach for agricultural production in farmlands with a history of 50-year wastewater irrigation. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125576	12.8	3
15	Four-decade dynamics of the water color in 61 large lakes on the Yangtze Plain and the impacts of reclaimed aquaculture zones. <i>Science of the Total Environment</i> , 2021 , 781, 146688	10.2	3

14	Hydrogen atom abstraction mechanism for organic compound oxidation by acetylperoxyl radical in Co(II)/peracetic acid activation system.. <i>Water Research</i> , 2022 , 212, 118113	12.5	2
13	Crop selection reduces potential heavy metal(loid)s health risk in wastewater contaminated agricultural soils.. <i>Science of the Total Environment</i> , 2022 , 819, 152502	10.2	2
12	Molecular signatures of soil-derived dissolved organic matter constrained by mineral weathering. <i>Fundamental Research</i> , 2022 ,		2
11	Relatively stable metal(loid) levels in surface soils of a semiarid Inner Mongolia steppe under multiple environmental change factors. <i>Geoderma</i> , 2019 , 352, 268-276	6.7	1
10	Straw return in paddy field alters photodegradation of organic contaminants by changing the quantity rather than the quality of water-soluble soil organic matter.. <i>Science of the Total Environment</i> , 2022 , 821, 153371	10.2	1
9	Characteristics of Dissolved Organic Matter and Dissolved Lignin Phenols in Tropical Forest Soil Solutions during Rainy Seasons and Their Responses to Nitrogen Deposition. <i>ACS Earth and Space Chemistry</i> ,	3.2	1
8	Divergent responses of the soil bacteria community to multi-level nitrogen enrichment in temperate grasslands under different degrees of degradation. <i>Land Degradation and Development</i> , 2021 , 32, 3524-3535	4.4	1
7	Accelerated Oxidation of Organic Micropollutants during Peracetic Acid Treatment in the Presence of Bromide Ions. <i>ACS ES&T Water</i> , 2022 , 2, 320-328		0
6	Different decomposition metrics of root xylem and root tissues outside xylem: an 8-year-long root decomposition study in an alpine shrubland. <i>Plant and Soil</i> , 2021 , 463, 415-425	4.2	0
5	Fire frequency and type regulate the response of soil carbon cycling and storage to fire across soil depths and ecosystems: A meta-analysis.. <i>Science of the Total Environment</i> , 2022 , 825, 153921	10.2	0
4	Molecular-level characteristics of soil organic carbon in rhizosheaths from a semiarid grassland of North China. <i>Soil Biology and Biochemistry</i> , 2022 , 108682	7.5	0
3	Organic matter biomarker and C NMR characteristics of soil and sediment standard reference materials from China.. <i>Science of the Total Environment</i> , 2022 , 155661	10.2	0
2	An experimental setup to prepare root-free mycorrhizal soil specimen for hydraulic conductivity measurement. <i>Journal of Soils and Sediments</i> , 2022 , 22, 1278	3.4	
1	Impacts of haze on the photobleaching of chromophoric dissolved organic matter in surface water.. <i>Environmental Research</i> , 2022 , 212, 113305	7.9	