

Jun-Jian Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3851348/publications.pdf>

Version: 2024-02-01

72
papers

2,266
citations

185998

28
h-index

253896

43
g-index

74
all docs

74
docs citations

74
times ranked

2346
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinearity of root trait relationships and the root economics spectrum. <i>Nature Communications</i> , 2019, 10, 2203.	5.8	158
2	Improved Fluorescence Excitation-Emission Matrix Regional Integration to Quantify Spectra for Fluorescent Dissolved Organic Matter. <i>Journal of Environmental Quality</i> , 2013, 42, 925-930.	1.0	132
3	The nutrient absorption-transportation hypothesis: optimizing structural traits in absorptive roots. <i>New Phytologist</i> , 2017, 213, 1569-1572.	3.5	107
4	Wildfire Altering Terrestrial Precursors of Disinfection Byproducts in Forest Detritus. <i>Environmental Science & Technology</i> , 2015, 49, 5921-5929.	4.6	90
5	Disinfection byproduct formation from chlorination of pure bacterial cells and pipeline biofilms. <i>Water Research</i> , 2013, 47, 2701-2709.	5.3	74
6	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.	1.7	70
7	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.	2.3	64
8	Anthropogenic transformation of Yangtze Plain freshwater lakes: patterns, drivers and impacts. <i>Remote Sensing of Environment</i> , 2020, 248, 111998.	4.6	63
9	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.	5.3	62
10	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, 14019-14027.	4.6	58
11	Greenhouse cultivation mitigates metal-ingestion-associated health risks from vegetables in wastewater-irrigated agroecosystems. <i>Science of the Total Environment</i> , 2016, 560-561, 204-211.	3.9	56
12	Dissolved organic matter characteristics in soils of tropical legume and non-legume tree plantations. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107880.	4.2	52
13	Deciphering dissolved organic matter by Fourier transform ion cyclotron resonance mass spectrometry (FT-ICR MS): from bulk to fractions and individuals. , 2022, 1, .		49
14	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.	3.9	48
15	Dissolved organic matter and nutrient dynamics of a coastal freshwater forested wetland in Winyah Bay, South Carolina. <i>Biogeochemistry</i> , 2013, 112, 571-587.	1.7	47
16	Economic strategies of plant absorptive roots vary with root diameter. <i>Biogeosciences</i> , 2016, 13, 415-424.	1.3	47
17	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.	1.2	47
18	Fine Root Mercury Heterogeneity: Metabolism of Lower-Order Roots as an Effective Route for Mercury Removal. <i>Environmental Science & Technology</i> , 2012, 46, 769-777.	4.6	44

#	ARTICLE	IF	CITATIONS
19	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.	5.3	44
20	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.	3.9	42
21	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.	3.9	42
22	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.	3.9	42
23	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, 1261-1273.	3.5	41
24	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.	1.2	39
25	A framework to assess the carbon supply-consumption balance in plant roots. <i>New Phytologist</i> , 2021, 229, 659-664.	3.5	35
26	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.	4.2	32
27	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.	3.9	32
28	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.	4.6	31
29	Characteristics and chlorine reactivity of biochar-derived dissolved organic matter: Effects of feedstock type and pyrolysis temperature. <i>Water Research</i> , 2022, 211, 118044.	5.3	31
30	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.	5.3	29
31	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.	6.5	29
32	Temporal variations of disinfection byproduct precursors in wildfire detritus. <i>Water Research</i> , 2016, 99, 66-73.	5.3	27
33	Long-term Nitrogen Addition Decreases Organic Matter Decomposition and Increases Forest Soil Carbon. <i>Soil Science Society of America Journal</i> , 2019, 83, S82.	1.2	26
34	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.	3.9	26
35	Long-Term Nitrogen Addition Alters the Composition of Soil-Derived Dissolved Organic Matter. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 189-201.	1.2	25
36	Electrical energy production from forest detritus in a forested wetland using microbial fuel cells. <i>GCB Bioenergy</i> , 2015, 7, 244-252.	2.5	24

#	ARTICLE	IF	CITATIONS
37	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.	3.9	24
38	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.	2.1	23
39	Fine Root Branch Orders Contribute Differentially to Uptake, Allocation, and Return of Potentially Toxic Metals. <i>Environmental Science & Technology</i> , 2013, 47, 11465-11472.	4.6	22
40	Aboveground litter inputs determine carbon storage across soil profiles: a meta-analysis. <i>Plant and Soil</i> , 2021, 462, 429-444.	1.8	22
41	Technical Note: Reactivity of C1 and C2 organohalogen formation “ from plant litter to bacteria. <i>Biogeosciences</i> , 2012, 9, 3721-3727.	1.3	21
42	Dynamics of multiple elements in fast decomposing vegetable residues. <i>Science of the Total Environment</i> , 2018, 616-617, 614-621.	3.9	20
43	Throughfall Dissolved Organic Matter as a Terrestrial Disinfection Byproduct Precursor. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1603-1613.	1.2	19
44	Investigation of mercury levels in soil around a municipal solid waste incinerator in Shenzhen, China. <i>Environmental Earth Sciences</i> , 2011, 64, 1001-1010.	1.3	18
45	Vetiver grass-microbe interactions for soil remediation. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 897-938.	6.6	17
46	Potential use of arbuscular mycorrhizal fungi for simultaneous mitigation of arsenic and cadmium accumulation in rice. <i>Journal of Experimental Botany</i> , 2022, 73, 50-67.	2.4	16
47	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.	5.3	14
48	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.	1.8	13
49	Haloform formation in coastal wetlands along a salinity gradient at South Carolina, United States. <i>Environmental Chemistry</i> , 2016, 13, 745.	0.7	12
50	Soil Organic Carbon Signature under Impervious Surfaces. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1785-1792.	1.2	12
51	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.	3.9	12
52	Trihalomethanes in marine mammal aquaria: Occurrences, sources, and health risks. <i>Water Research</i> , 2014, 59, 219-228.	5.3	11
53	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.	2.3	10
54	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.	3.9	10

#	ARTICLE	IF	CITATIONS
55	Water quality dynamics of ephemeral wetlands in the Piedmont ecoregion, South Carolina, USA. <i>Ecological Engineering</i> , 2016, 94, 555-563.	1.6	9
56	Rhizosheaths stimulate short-term root decomposition in a semiarid grassland. <i>Science of the Total Environment</i> , 2018, 640-641, 1297-1301.	3.9	9
57	Effects of mycorrhizal Bermuda grass on low-range soil matric suction. <i>Journal of Soils and Sediments</i> , 2021, 21, 990-1000.	1.5	9
58	Molecular signatures of soil-derived dissolved organic matter constrained by mineral weathering. <i>Fundamental Research</i> , 2023, 3, 377-383.	1.6	9
59	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.	6.5	8
60	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.	3.9	8
61	Organic matter biomarker and ¹³ C NMR characteristics of soil and sediment standard reference materials from China. <i>Science of the Total Environment</i> , 2022, 836, 155661.	3.9	8
62	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> , 2021, 5, 3150-3158.	1.2	7
63	Polycyclic aromatic hydrocarbon occurrence in forest soils in response to fires: a summary across sites. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 32-41.	1.7	7
64	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.	0.5	6
65	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.	1.2	5
66	Molecular-level characteristics of soil organic carbon in rhizosheaths from a semiarid grassland of North China. <i>Soil Biology and Biochemistry</i> , 2022, 170, 108682.	4.2	5
67	Depletion of Soil Water-Extractable Organic Matter With Long-Term Coverage by Impervious Surfaces. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	4
68	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.	2.3	3
69	Impacts of haze on the photobleaching of chromophoric dissolved organic matter in surface water. <i>Environmental Research</i> , 2022, 212, 113305.	3.7	3
70	High content and distinct spectroscopic characteristics of water-extractable organic matter in rhizosheath soils in a semiarid grassland. <i>Rhizosphere</i> , 2022, 23, 100553.	1.4	3
71	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.	1.8	2
72	An experimental setup to prepare root-free mycorrhizal soil specimen for hydraulic conductivity measurement. <i>Journal of Soils and Sediments</i> , 2022, 22, 1278-1285.	1.5	0