

Jianzhong Song

List of Publications by Year in descending order

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52
papers

2,780
citations

218677

26
h-index

175258

52
g-index

54
all docs

54
docs citations

54
times ranked

2817
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of quantification methods to measure fire-derived (black/elemental) carbon in soils and sediments using reference materials from soil, water, sediment and the atmosphere. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	483
2	Black Carbon and Kerogen in Soils and Sediments. 1. Quantification and Characterization. <i>Environmental Science & Technology</i> , 2002, 36, 3960-3967.	10.0	236
3	Influence of pyrolysis temperature and feedstock on carbon fractions of biochar produced from pyrolysis of rice straw, pine wood, pig manure and sewage sludge. <i>Chemosphere</i> , 2019, 218, 624-631.	8.2	148
4	Comprehensive characterization of humic-like substances in smoke PM _{2.5} emitted from the combustion of biomass materials and fossil fuels. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 13321-13340.	4.9	137
5	Molecular Characterization of Water-Soluble Humic like Substances in Smoke Particles Emitted from Combustion of Biomass Materials and Coal Using Ultrahigh-Resolution Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Environmental Science & Technology</i> , 2018, 52, 2575-2585.	10.0	132
6	Black Carbon and Kerogen in Soils and Sediments. 2. Their Roles in Equilibrium Sorption of Less-Polar Organic Pollutants. <i>Environmental Science & Technology</i> , 2004, 38, 5842-5852.	10.0	113
7	Molecular compositions and optical properties of dissolved brown carbon in biomass burning, coal combustion, and vehicle emission aerosols illuminated by excitation-emission matrix spectroscopy and Fourier transform ion cyclotron resonance mass spectrometry analysis. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 2513-2532.	4.9	111
8	Abundance and Light Absorption Properties of Brown Carbon Emitted from Residential Coal Combustion in China. <i>Environmental Science & Technology</i> , 2019, 53, 595-603.	10.0	92
9	Distribution and loadings of polycyclic aromatic hydrocarbons in the Xijiang River in Guangdong, South China. <i>Chemosphere</i> , 2006, 64, 1401-1411.	8.2	87
10	Temporal variations of the abundance and optical properties of water soluble Humic-Like Substances (HULIS) in PM _{2.5} at Guangzhou, China. <i>Atmospheric Research</i> , 2016, 172-173, 8-15.	4.1	75
11	Nonlinear and Competitive Sorption of Apolar Compounds in Black Carbon-Free Natural Organic Materials. <i>Journal of Environmental Quality</i> , 2006, 35, 1049-1059.	2.0	74
12	Chemical and Isotopic Composition of Humic-Like Substances (HULIS) in Ambient Aerosols in Guangzhou, South China. <i>Aerosol Science and Technology</i> , 2012, 46, 533-546.	3.1	74
13	Molecular Characterization of Water- and Methanol-Soluble Organic Compounds Emitted from Residential Coal Combustion Using Ultrahigh-Resolution Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Environmental Science & Technology</i> , 2019, 53, 13607-13617.	10.0	69
14	Comparison of isolation and quantification methods to measure humic-like substances (HULIS) in atmospheric particles. <i>Atmospheric Environment</i> , 2012, 60, 366-374.	4.1	68
15	Identification of species and sources of atmospheric chromophores by fluorescence excitation-emission matrix with parallel factor analysis. <i>Science of the Total Environment</i> , 2020, 718, 137322.	8.0	65
16	Characterisation of black carbon materials by pyrolysis-gas chromatography-mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010, 87, 129-137.	5.5	61
17	Fluorescence characteristics of water-soluble organic carbon in atmospheric aerosol. <i>Environmental Pollution</i> , 2021, 268, 115906.	7.5	49
18	Comparative study for separation of atmospheric humic-like substance (HULIS) by ENVI-18, HLB, XAD-8 and DEAE sorbents: Elemental composition, FT-IR, 1H NMR and off-line thermochemolysis with tetramethylammonium hydroxide (TMAH). <i>Chemosphere</i> , 2013, 93, 1710-1719.	8.2	46

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19	The evolutionary behavior of chromophoric brown carbon during ozone aging of fine particles from biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4593-4605.	4.9	46
20	Sedimentary record of black carbon in the Pearl River estuary and adjacent northern South China Sea. <i>Applied Geochemistry</i> , 2008, 23, 3464-3472.	3.0	45
21	Optical properties and oxidative potential of water- and alkaline-soluble brown carbon in smoke particles emitted from laboratory simulated biomass burning. <i>Atmospheric Environment</i> , 2018, 194, 48-57.	4.1	41
22	Depositional environment of the Late Santonian lacustrine source rocks in the Songliao Basin (NE) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.8	38
23	Surface Characterization of Aerosol Particles in Guangzhou, China: A Study by XPS. <i>Aerosol Science and Technology</i> , 2009, 43, 1230-1242.	3.1	35
24	Chemical composition, optical properties, and oxidative potential of water- and methanol-soluble organic compounds emitted from the combustion of biomass materials and coal. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13187-13205.	4.9	33
25	The aging behaviors of chromophoric biomass burning brown carbon during dark aqueous hydroxyl radical oxidation processes in laboratory studies. <i>Atmospheric Environment</i> , 2019, 205, 9-18.	4.1	30
26	Characterization of extractable and non-extractable polycyclic aromatic hydrocarbons in soils and sediments from the Pearl River Delta, China. <i>Environmental Pollution</i> , 2008, 156, 769-774.	7.5	28
27	Humic Acid Molecular Weight Estimation by High-Performance Size-Exclusion Chromatography with Ultraviolet Absorbance Detection and Refractive Index Detection. <i>Soil Science Society of America Journal</i> , 2010, 74, 2013-2020.	2.2	26
28	Distribution and sources of DDT and its metabolites in porewater and sediment from a typical tropical bay in the South China Sea. <i>Environmental Pollution</i> , 2020, 267, 115492.	7.5	26
29	Molecular Characterization of Nitrogen-Containing Compounds in Humic-like Substances Emitted from Biomass Burning and Coal Combustion. <i>Environmental Science & Technology</i> , 2022, 56, 119-130.	10.0	24
30	The winter effect on formation of PCDD/Fs in Guangzhou by vehicles: A tunnel study. <i>Atmospheric Environment</i> , 2011, 45, 2541-2548.	4.1	21
31	Comprehensive Characterization of Biochars Produced from Three Major Crop Straws of China. <i>BioResources</i> , 2017, 12, .	1.0	21
32	Sorption of organic pollutants by marine sediments: Implication for the role of particulate organic matter. <i>Chemosphere</i> , 2006, 65, 2493-2501.	8.2	20
33	Insight into binding characteristics of copper(II) with water-soluble organic matter emitted from biomass burning at various pH values using EEM-PARAFAC and two-dimensional correlation spectroscopy analysis. <i>Chemosphere</i> , 2021, 278, 130439.	8.2	19
34	Light absorption and emissions inventory of humic-like substances from simulated rainforest biomass burning in Southeast Asia. <i>Environmental Pollution</i> , 2020, 262, 114266.	7.5	18
35	Comparison of solid phase extraction methods for the measurement of humic-like substances (HULIS) in atmospheric particles. <i>Atmospheric Environment</i> , 2020, 225, 117370.	4.1	17
36	CHARACTERIZATION OF HUMIC ACID-LIKE MATERIAL ISOLATED FROM THE HUMIN FRACTION OF A TOPSOIL. <i>Soil Science</i> , 2005, 170, 599-611.	0.9	16

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37	Characterization of organic matter in total suspended particles by thermodesorption and pyrolysis-gas chromatography-mass spectrometry. <i>Journal of Environmental Sciences</i> , 2009, 21, 1658-1666.	6.1	16
38	Characterization of macromolecular organic matter in atmospheric dust from Guangzhou, China. <i>Atmospheric Environment</i> , 2011, 45, 5612-5620.	4.1	14
39	Seasonal and spatial changes of free and bound organic acids in total suspended particles in Guangzhou, China. <i>Atmospheric Environment</i> , 2010, 44, 5460-5467.	4.1	13
40	Atmospheric depositional fluxes and sources apportionment of organochlorine pesticides in the Pearl River Delta region, South China. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 247-256.	2.7	13
41	Transformation of m-aminophenol by birnessite ($\text{Î}^{\cdot}\text{-MnO}_2$) mediated oxidative processes: Reaction kinetics, pathways and toxicity assessment. <i>Environmental Pollution</i> , 2020, 256, 113408.	7.5	13
42	Research on flux of dry atmospheric falling dust and its characterization in a subtropical city, Guangzhou, South China. <i>Air Quality, Atmosphere and Health</i> , 2010, 3, 139-147.	3.3	12
43	Molecular characterization of primary humic-like substances in fine smoke particles by thermochemolysis-gas chromatography-mass spectrometry. <i>Atmospheric Environment</i> , 2018, 180, 1-10.	4.1	12
44	Stable carbon isotopic compositions of organic acids in total suspended particles and dusts from Guangzhou, China. <i>Atmospheric Research</i> , 2010, 98, 176-182.	4.1	11
45	Characterization of Humic Acid-like Substances Extracted from Atmospheric Falling Dust Using Py-GC-MS. <i>Aerosol and Air Quality Research</i> , 2012, 12, 83-92.	2.1	11
46	Stability and carbon isotope changes of soot and char materials during thermal oxidation: Implication for quantification and source appointment. <i>Chemical Geology</i> , 2012, 330-331, 159-164.	3.3	10
47	Molecular weight-dependent abundance, absorption, and fluorescence characteristics of water-soluble organic matter in atmospheric aerosols. <i>Atmospheric Environment</i> , 2021, 247, 118159.	4.1	7
48	Triplet-state organic matter in atmospheric aerosols: Formation characteristics and potential effects on aerosol aging. <i>Atmospheric Environment</i> , 2021, 252, 118343.	4.1	7
49	Humic Acid, Kerogen, and Black Carbon Isolated from Atmospheric Total Suspended Particulate from Guangzhou, China. <i>Aerosol Science and Technology</i> , 2013, 47, 1342-1352.	3.1	6
50	Evaluation of a dichromate oxidation method for the isolation and quantification of black carbon in ancient geological samples. <i>Organic Geochemistry</i> , 2019, 133, 20-31.	1.8	5
51	Abundance and ^{14}C -based source assessment of carbonaceous materials in PM _{2.5} aerosols in Guangzhou, South China. <i>Atmospheric Pollution Research</i> , 2019, 10, 313-320.	3.8	3
52	Potential of Light Oil and Condensates from Deep Source Rocks Revealed by the Pyrolysis of Type I/II Kerogens after Oil Generation and Expulsion. <i>Energy & Fuels</i> , 2020, 34, 9262-9274.	5.1	3