

Dong Cao

List of Publications by Year in descending order

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42
papers

1,348
citations

430874

18
h-index

345221

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all docs

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docs citations

42
times ranked

1506
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular-Scale Investigation with ESI-FT-ICR-MS on Fractionation of Dissolved Organic Matter Induced by Adsorption on Iron Oxyhydroxides. <i>Environmental Science & Technology</i> , 2016, 50, 2328-2336.	10.0	344
2	Discovery of a Novel Polyfluoroalkyl Benzenesulfonic Acid around Oilfields in Northern China. <i>Environmental Science & Technology</i> , 2017, 51, 14173-14181.	10.0	86
3	Comprehensive characterization of natural organic matter by MALDI- and ESI-Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytica Chimica Acta</i> , 2015, 866, 48-58.	5.4	80
4	Identification, Tissue Distribution, and Bioaccumulation Potential of Cyclic Perfluorinated Sulfonic Acids Isomers in an Airport Impacted Ecosystem. <i>Environmental Science & Technology</i> , 2016, 50, 10923-10932.	10.0	62
5	Covalent-organic frameworks as adsorbent and matrix of SALDI-TOF MS for the enrichment and rapid determination of fluorochemicals. <i>Talanta</i> , 2019, 194, 522-527.	5.5	57
6	Relationship between Molecular Components and Reducing Capacities of Humic Substances. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 330-339.	2.7	55
7	Solid-phase extraction-stepwise elution (SPE-SE) procedure for isolation of dissolved organic matter prior to ESI-FT-ICR-MS analysis. <i>Analytica Chimica Acta</i> , 2016, 948, 55-61.	5.4	53
8	Probing and Comparing the Photobromination and Photoiodination of Dissolved Organic Matter by Using Ultra-High-Resolution Mass Spectrometry. <i>Environmental Science & Technology</i> , 2017, 51, 5464-5472.	10.0	51
9	Characterization of Brominated Disinfection Byproducts Formed During the Chlorination of Aquaculture Seawater. <i>Environmental Science & Technology</i> , 2018, 52, 5662-5670.	10.0	46
10	Ion Accumulation Time Dependent Molecular Characterization of Natural Organic Matter Using Electrospray Ionization-Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 12210-12218.	6.5	41
11	Quantitative detection of trace perfluorinated compounds in environmental water samples by Matrix-assisted Laser Desorption/Ionization-Time of Flight Mass Spectrometry with 1,8-bis(tetramethylguanidino)-naphthalene as matrix. <i>Talanta</i> , 2011, 85, 345-352.	5.5	33
12	High Molecular Diversity of Organic Nitrogen in Urban Snow in North China. <i>Environmental Science & Technology</i> , 2021, 55, 4344-4356.	10.0	32
13	Iron plays an important role in molecular fractionation of dissolved organic matter at soil-water interface. <i>Science of the Total Environment</i> , 2019, 670, 300-307.	8.0	30
14	Increase of High Molecular Weight Organosulfate With Intensifying Urban Air Pollution in the Megacity Beijing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032200.	3.3	30
15	Freezing-Induced Bromate Reduction by Dissolved Organic Matter and the Formation of Organobromine Compounds. <i>Environmental Science & Technology</i> , 2020, 54, 1668-1676.	10.0	29
16	Molecular characterization of firework-related urban aerosols using Fourier transform ion cyclotron resonance mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6803-6820.	4.9	27
17	Molecular characterization of root exudates using Fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of Environmental Sciences</i> , 2020, 98, 22-30.	6.1	22
18	Formation of organobromine and organoiodine compounds by engineered TiO ₂ nanoparticle-induced photohalogenation of dissolved organic matter in environmental waters. <i>Science of the Total Environment</i> , 2018, 631-632, 158-168.	8.0	20

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19	Protein target identification and toxicological mechanism investigation of silver nanoparticles-induced hepatotoxicity by integrating proteomic and metallomic strategies. <i>Particle and Fibre Toxicology</i> , 2019, 16, 46.	6.2	20
20	Proton sponge-functionalized silica as high performance adsorbents for solid-phase extraction of trace perfluoroalkyl sulfonates in the environmental water samples and their direct analysis by MALDI-TOF-MS. <i>Analyst</i> , 2012, 137, 2218.	3.5	19
21	An overview of omics approaches to characterize the effect of perfluoroalkyl substances in environmental health. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 121, 115367.	11.4	19
22	Identification and Elimination of Fluorinated Methylsiloxanes in Environmental Matrices near a Manufacturing Plant in Eastern China. <i>Environmental Science & Technology</i> , 2018, 52, 12235-12243.	10.0	17
23	Abiotic formation of organoiodine compounds by manganese dioxide induced iodination of dissolved organic matter. <i>Environmental Pollution</i> , 2018, 236, 672-679.	7.5	17
24	N-doped graphene quantum dots as a novel highly-efficient matrix for the analysis of perfluoroalkyl sulfonates and other small molecules by MALDI-TOF MS. <i>Analytical Methods</i> , 2017, 9, 2014-2020.	2.7	16
25	Multifunctional Au NPs-polydopamine-polyvinylidene fluoride membrane chips as probe for enrichment and rapid detection of organic contaminants. <i>Talanta</i> , 2018, 181, 340-345.	5.5	16
26	Effects of dissolved organic carbon on desorption of aged phenanthrene from contaminated soils: A mechanistic study. <i>Environmental Pollution</i> , 2019, 254, 113016.	7.5	15
27	Molecular characterization of size-segregated organic aerosols in the urban boundary layer in wintertime Beijing by FT-ICR MS. <i>Faraday Discussions</i> , 2021, 226, 457-478.	3.2	14
28	Identification, Quantification, and Imaging of the Biodistribution of Soot Particles by Mass Spectral Fingerprinting. <i>Analytical Chemistry</i> , 2021, 93, 6665-6672.	6.5	14
29	Increase of nitrooxy organosulfates in firework-related urban aerosols during Chinese New Year's Eve. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11453-11465.	4.9	14
30	Mechanism of synergistic DNA damage induced by caffeic acid phenethyl ester (CAPE) and Cu(II): Competitive binding between CAPE and DNA with Cu(II)/Cu(I). <i>Free Radical Biology and Medicine</i> , 2020, 159, 107-118.	2.9	10
31	A New Structural Classification Scheme for Dissolved Organic Sulfur in Urban Snow from North China. <i>Environmental Science and Technology Letters</i> , 2022, 9, 366-374.	8.7	10
32	Characterization of non-volatile organic contaminants in coking wastewater using non-target screening: Dominance of nitrogen, sulfur, and oxygen-containing compounds in biological effluents. <i>Science of the Total Environment</i> , 2022, 837, 155768.	8.0	9
33	Recognition of the molecular characterization and mechanisms of heterogeneously formed organic pollutants from metallurgical industries by FT-ICR-MS and GC/Q-TOF-MS. <i>Journal of Hazardous Materials</i> , 2021, 406, 124603.	12.4	7
34	Photoacid generator formation for the selective enrichment of perfluoroalkyl sulfonates and their direct analysis by MALDI-TOF-MS. <i>Analyst</i> , 2011, 136, 2225.	3.5	6
35	A feasible strategy to improve confident elemental composition determination of compounds in complex organic mixture such as natural organic matter by FTICR-MS without internal calibration. <i>Science of the Total Environment</i> , 2021, 751, 142255.	8.0	6
36	Extracting biomolecule collision cross sections from FT-ICR mass spectral line shape. <i>Talanta</i> , 2019, 205, 120093.	5.5	4

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37	Interfacial Molecular Fractionation Induces Preferential Protection of Biorefractory Organic Matter by Ferrihydrite. ACS Earth and Space Chemistry, 2021, 5, 1094-1101.	2.7	4
38	Bioaccumulation and biotransformation of tetrabromoethylcyclohexane (TBECH) in maize (Zea mays) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 424, 127610.	12.4	4
39	Deciphering ¹³ C and ³⁴ S Isotopes of Organosulfates in Urban Aerosols by FT-ICR Mass Spectrometry. Environmental Science and Technology Letters, 2022, 9, 526-532.	8.7	4
40	Advanced molecular-fingerprinting analysis of dissolved organic sulfur by electrospray ionization-Fourier transform ion cyclotron resonance mass spectrometry using optimal spray solvent. Journal of Environmental Sciences, 2020, 97, 67-74.	6.1	3
41	Construction of a Degradation-Free DNA Conjugated Nanoprobe and Its Application in Rapid Field Screening for Sulfur Mustard. Analytical Chemistry, 2021, 93, 16735-16740.	6.5	2
42	Structure-Activity Relationship Investigation on Reaction Mechanism between Chlorinated Quinoid Carcinogens and Clinically-Used Aldoxime Nerve-Agent Antidote under Physiological Condition. Chemical Research in Toxicology, 2021, 34, 1091-1100.	3.3	0