

# Quan Shi

## List of Publications by Year in descending order

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260  
papers

9,395  
citations

41627

51  
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78623

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263  
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263  
docs citations

263  
times ranked

5389  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular signatures of soil-derived dissolved organic matter constrained by mineral weathering. <i>Fundamental Research</i> , 2023, 3, 377-383.	1.6	9
2	Comprehensive chemical characterization of dissolved organic matter in typical point-source refinery wastewaters. <i>Chemosphere</i> , 2022, 286, 131617.	4.2	7
3	Molecular characterization of organic aerosol in winter from Beijing using UHPLC-Orbitrap MS. <i>Science of the Total Environment</i> , 2022, 812, 151507.	3.9	6
4	A mass-temperature decoupled discretization strategy for large-scale molecular-level kinetic model. <i>Chemical Engineering Science</i> , 2022, 249, 117348.	1.9	7
5	Influence Exerted by the Solvent Effect on the Mobility Peak of 1,8-Naphthalic Anhydride in Ion Mobility Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 457-462.	1.2	6
6	New Insights into Microbial Interactions with Dissolved Organic Matter in Acid Mine Drainage with the Integration of Microbial Community and Chemical Composition Analysis. <i>ACS ES&amp;T Water</i> , 2022, 2, 278-287.	2.3	12
7	Comparing Photoactivities of Dissolved Organic Matter Released from Rice Straw-Pyrolyzed Biochar and Composted Rice Straw. <i>Environmental Science &amp; Technology</i> , 2022, 56, 2803-2815.	4.6	35
8	Molecular composition of low-temperature oxidation products in a simulated crude oil In-situ combustion. <i>Fuel</i> , 2022, 316, 123297.	3.4	10
9	Molecular characterization of aromatics in petroleum fractions by combining silica sulfuric acid sulfonation with electrospray ionization high-resolution mass spectrometry. <i>Fuel</i> , 2022, 317, 123463.	3.4	9
10	Linking Microbial Population Succession and DOM Molecular Changes in <i>Synechococcus</i> -Derived Organic Matter Addition Incubation. <i>Microbiology Spectrum</i> , 2022, 10, e0230821.	1.2	8
11	Lake Chemodiversity Driven by Natural and Anthropogenic Factors. <i>Environmental Science &amp; Technology</i> , 2022, 56, 5910-5919.	4.6	37
12	Characterization of dissolved organic matter processing between surface sediment porewater and overlying bottom water in the Yangtze River Estuary. <i>Water Research</i> , 2022, 215, 118260.	5.3	42
13	Eutrophication and watershed characteristics shape changes in dissolved organic matter chemistry along two river-estuarine transects. <i>Water Research</i> , 2022, 214, 118196.	5.3	39
14	Metagenomic evidence for the microbial transformation of carboxyl-rich alicyclic molecules: A long-term macrocosm experiment. <i>Water Research</i> , 2022, 216, 118281.	5.3	11
15	Selective molecular characterization of olefins in hydrocarbon mixtures by Ag <sup>+</sup> complexation ESI high-resolution mass spectrometry. <i>Fuel</i> , 2022, 319, 123760.	3.4	6
16	Molecular characterization of carbonyl compounds in atmospheric fine particulate matters (PM <sub>2.5</sub> ) in Beijing by derivatization with Girard's reagent T combined with positive-ion ESI Orbitrap MS. <i>Atmospheric Research</i> , 2022, 273, 106176.	1.8	4
17	Patterns and drivers of the degradability of dissolved organic matter in dryland soils on the Tibetan Plateau. <i>Journal of Applied Ecology</i> , 2022, 59, 884-894.	1.9	5
18	Temperature Rise Increases the Bioavailability of Marine <i>Synechococcus</i> -Derived Dissolved Organic Matter. <i>Frontiers in Microbiology</i> , 2022, 13, 838707.	1.5	2

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19	Characterization of crude oil interfacial material by high-resolution mass spectrometry. <i>Journal of Petroleum Science and Engineering</i> , 2022, 214, 110509.	2.1	2
20	Separation and characterization of sulfonates in dissolved organic matter from industrial wastewater by solid phase extraction and high-resolution mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 4697-4706.	1.9	2
21	Hypolimnetic deoxygenation enhanced production and export of recalcitrant dissolved organic matter in a large stratified reservoir. <i>Water Research</i> , 2022, 219, 118537.	5.3	17
22	Oxygen availability driven trends in DOM molecular composition and reactivity in a seasonally stratified fjord. <i>Water Research</i> , 2022, 220, 118690.	5.3	21
23	Carbon Sequestration in the Form of Recalcitrant Dissolved Organic Carbon in a Seaweed (Kelp) Farming Environment. <i>Environmental Science &amp; Technology</i> , 2022, 56, 9112-9122.	4.6	39
24	Natural versus anthropogenic controls on the dissolved organic matter chemistry in lakes across China: Insights from optical and molecular level analyses. <i>Water Research</i> , 2022, 221, 118779.	5.3	16
25	Revealing Dissolved Organic Nitrogen Transformation and Microbial Evolution at Microscale in a Solid Carbon Source-Coordinated Simultaneous Partial Nitrification, Anammox, and Denitrification Bioreactor. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 2066-2075.	3.7	3
26	Determination of anhydride in atmospheric fine particles by optimized solvent extraction. <i>Atmospheric Environment</i> , 2022, 285, 119249.	1.9	2
27	Characterization of nitroaromatic compounds in atmospheric particulate matter from Beijing. <i>Atmospheric Environment</i> , 2021, 246, 118046.	1.9	19
28	Systematic performance evaluation of gasoline molecules based on quantitative structure-property relationship models. <i>Chemical Engineering Science</i> , 2021, 229, 116077.	1.9	15
29	Spatial changes in molecular composition of dissolved organic matter in the Yangtze River Estuary: Implications for the seaward transport of estuarine DOM. <i>Science of the Total Environment</i> , 2021, 759, 143531.	3.9	42
30	Aggregation of petroporphyrins and fragmentation of porphyrin ions: Characterized by TIMS-TOF MS and FT-ICR MS. <i>Fuel</i> , 2021, 289, 119889.	3.4	16
31	Linking the unique molecular complexity of dissolved organic matter to flood period in the Yangtze River mainstream. <i>Science of the Total Environment</i> , 2021, 764, 142803.	3.9	38
32	Highly enriched N-containing organic molecules of <i>Synechococcus</i> lysates and their rapid transformation by heterotrophic bacteria. <i>Limnology and Oceanography</i> , 2021, 66, 335-348.	1.6	30
33	Molecular-level kinetic modeling of heavy oil fluid catalytic cracking process based on hybrid structural unit and bond-electron matrix. <i>AIChE Journal</i> , 2021, 67, .	1.8	27
34	Behavior Study of Tape Springs for Space Deployment Applications. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 349-362.	0.3	1
35	Unraveling roles of dissolved organic matter in high arsenic groundwater based on molecular and optical signatures. <i>Journal of Hazardous Materials</i> , 2021, 406, 124702.	6.5	44
36	Direct Nickel Petroporphyrin Analysis through Electrochemical Oxidation in Electrospray Ionization Ultrahigh-Resolution Mass Spectrometry. <i>Energy &amp; Fuels</i> , 2021, 35, 5748-5757.	2.5	6

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37	Rhizosphere microbiome modulated effects of biochar on ryegrass 15N uptake and rhizodeposited 13C allocation in soil. <i>Plant and Soil</i> , 2021, 463, 359-377.	1.8	17
38	Comprehensive Composition, Structure, and Size Characterization for Thiophene Compounds in Petroleum Using Ultrahigh-Resolution Mass Spectrometry and Trapped Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 5089-5097.	3.2	14
39	Microbial transformation of distinct exogenous substrates into analogous composition of recalcitrant dissolved organic matter. <i>Environmental Microbiology</i> , 2021, 23, 2389-2403.	1.8	38
40	Characterizing Dissolved Organic Matter Across a Riparian Soil-Water Interface: Preliminary Insights from a Molecular Level Perspective. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1102-1113.	1.2	14
41	Correcting a major error in assessing organic carbon pollution in natural waters. <i>Science Advances</i> , 2021, 7, .	4.7	37
42	Effects of iron catalyst and atmosphere on sulfur transformation during pressurized low-temperature pyrolysis of Baishihu coal. <i>Journal of Fuel Chemistry and Technology</i> , 2021, 49, 436-443.	0.9	3
43	Identification of processes mobilizing organic molecules and arsenic in geothermal confined groundwater from Pliocene aquifers. <i>Water Research</i> , 2021, 198, 117140.	5.3	31
44	The Stratified Distribution of Dissolved Organic Matter in an AMD Lake Revealed by Multi-sample Evaluation Procedure. <i>Environmental Science &amp; Technology</i> , 2021, 55, 8401-8409.	4.6	25
45	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
46	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
47	Hydrological management affected dissolved organic matter chemistry and organic carbon burial in the Three Gorges Reservoir. <i>Water Research</i> , 2021, 199, 117195.	5.3	32
48	Diacylglycerols ions as novel marker indicators for the classification of edible oils using ultrahigh resolution mass spectrometry. <i>Food Research International</i> , 2021, 145, 110422.	2.9	4
49	Novel Insights into the Molecular-Level Mechanism Linking the Chemical Diversity and Copper Binding Heterogeneity of Biochar-Derived Dissolved Black Carbon and Dissolved Organic Matter. <i>Environmental Science &amp; Technology</i> , 2021, 55, 11624-11636.	4.6	48
50	Vertical Stratification of Dissolved Organic Matter Linked to Distinct Microbial Communities in Subtropic Estuarine Sediments. <i>Frontiers in Microbiology</i> , 2021, 12, 697860.	1.5	12
51	Advances and Challenges in the Molecular Characterization of Porphyrins. <i>Energy &amp; Fuels</i> , 2021, 35, 18056-18077.	2.5	23
52	Three Gorges Reservoir construction induced dissolved organic matter chemistry variation between the reservoir and non-reservoir areas along the Xiangxi tributary. <i>Science of the Total Environment</i> , 2021, 784, 147095.	3.9	13
53	Molecular-level heavy petroleum hydrotreating modeling and comparison with high-resolution mass spectrometry. <i>Fuel</i> , 2021, 297, 120792.	3.4	19
54	Molecular Characterization of Fossil and Alternative Fuels Using Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: Recent Advances and Perspectives. <i>Energy &amp; Fuels</i> , 2021, 35, 18019-18055.	2.5	27

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55	Hydrologic heterogeneity induced variability of dissolved organic matter chemistry among tributaries of the Three Gorges Reservoir. <i>Water Research</i> , 2021, 201, 117358.	5.3	24
56	Internal loop sustains cyanobacterial blooms in eutrophic lakes: Evidence from organic nitrogen and ammonium regeneration. <i>Water Research</i> , 2021, 206, 117724.	5.3	18
57	Review on Sulfur Compounds in Petroleum and Its Products: State-of-the-Art and Perspectives. <i>Energy &amp; Fuels</i> , 2021, 35, 14445-14461.	2.5	55
58	Correspondence between DOM molecules and microbial community in a subtropical coastal estuary on a spatiotemporal scale. <i>Environment International</i> , 2021, 154, 106558.	4.8	60
59	Density currents affect the vertical evolution of dissolved organic matter chemistry in a large tributary of the Three Gorges Reservoir during the water-level rising period. <i>Water Research</i> , 2021, 204, 117609.	5.3	20
60	Evolution of the Dissolved Organic Matter Composition along the Upper Mekong (Lancang) River. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 319-330.	1.2	16
61	Ionization selectivity of electrospray and atmospheric pressure photoionization FT-ICR MS for petroleum refinery wastewater dissolved organic matter. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1466-1475.	1.7	16
62	Molecular Composition Reveals Unique Rheological Property of Karamay Heavy Crude Oil. <i>Energy &amp; Fuels</i> , 2021, 35, 473-478.	2.5	23
63	Epiphytic Bacteria Are Essential for the Production and Transformation of Algae-Derived Carboxyl-Rich Alicyclic Molecule (CRAM)-like DOM. <i>Microbiology Spectrum</i> , 2021, 9, e0153121.	1.2	19
64	Molecular composition of hydrothermal liquefaction wastewater from sewage sludge and its transformation during anaerobic digestion. <i>Journal of Hazardous Materials</i> , 2020, 383, 121163.	6.5	64
65	Molecular characterization of edible vegetable oils via free fatty acid and triacylglycerol fingerprints by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>International Journal of Food Science and Technology</i> , 2020, 55, 165-174.	1.3	8
66	Linking the molecular composition of autochthonous dissolved organic matter to source identification for freshwater lake ecosystems by combination of optical spectroscopy and FT-ICR-MS analysis. <i>Science of the Total Environment</i> , 2020, 703, 134764.	3.9	82
67	CYHPO oxidation followed by methylation for selective characterization of thiophenic and sulfidic compounds in petroleum via ESI FT-ICR MS. <i>Fuel</i> , 2020, 265, 116907.	3.4	8
68	Molecular characteristics of leonardite humic acid and the effect of its fractionations on sulfamethoxazole photodegradation. <i>Chemosphere</i> , 2020, 246, 125642.	4.2	27
69	Hydrological management constraints on the chemistry of dissolved organic matter in the Three Gorges Reservoir. <i>Water Research</i> , 2020, 187, 116413.	5.3	50
70	Using ESI FT-ICR MS to Characterize Dissolved Organic Matter in Salt Lakes with Different Salinity. <i>Environmental Science &amp; Technology</i> , 2020, 54, 12929-12937.	4.6	74
71	Understanding the Vanadium-Asphaltene Nanoaggregate Link with Silver Triflate Complexation and GPC ICP-MS Analysis. <i>Energy &amp; Fuels</i> , 2020, 34, 13759-13766.	2.5	8
72	Fractionation and Characterization of Petroleum Asphaltene: Focus on Metalopetroleomics. <i>Processes</i> , 2020, 8, 1504.	1.3	38

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73	DOC dynamics and bacterial community succession during long-term degradation of <i>Ulva prolifera</i> and their implications for the legacy effect of green tides on refractory DOC pool in seawater. <i>Water Research</i> , 2020, 185, 116268.	5.3	71
74	Molecular transformation of dissolved organic matter in refinery wastewater. <i>Water Science and Technology</i> , 2020, 82, 107-119.	1.2	5
75	Molecular composition of vanadyl porphyrins in the gilsonite. <i>Journal of Fuel Chemistry and Technology</i> , 2020, 48, 562-567.	0.9	7
76	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
77	Characterization of Sulfur-Containing Compounds in Petroleum Using $\text{AgSbF}_6$ as a Methylation Reagent. <i>Energy &amp; Fuels</i> , 2020, 34, 10842-10848.	2.5	12
78	Isolation of Sulfides from Petroleum for Molecular Characterization by Alumina and Silica Gel Adsorption. <i>Energy &amp; Fuels</i> , 2020, 34, 10837-10841.	2.5	6
79	Composition and Structure of the Sulfur-Containing Compounds in the Extracts from the Chinese High-Organic-Sulfur Coals. <i>Energy &amp; Fuels</i> , 2020, 34, 10666-10675.	2.5	7
80	In-House Standard Method for Molecular Characterization of Dissolved Organic Matter by FT-ICR Mass Spectrometry. <i>ACS Omega</i> , 2020, 5, 11730-11736.	1.6	128
81	Molecular Characterization of Soluble Components in the Lignite by Sequential Solvent Extraction via Continuously Reducing Particle Size. <i>ACS Omega</i> , 2020, 5, 11075-11083.	1.6	5
82	Molecular Evidence of Arsenic Mobility Linked to Biodegradable Organic Matter. <i>Environmental Science &amp; Technology</i> , 2020, 54, 7280-7290.	4.6	86
83	Molecular transformation of dissolved organic matter in process water from oil and gas operation during UV/H <sub>2</sub> O <sub>2</sub> , UV/chlorine, and UV/persulfate processes. <i>Science of the Total Environment</i> , 2020, 730, 139072.	3.9	27
84	Characterization of wastewater effluent organic matter with different solid phase extraction sorbents. <i>Chemosphere</i> , 2020, 257, 127235.	4.2	12
85	Direct sulfur-containing compounds analysis in petroleum via (+) ESI FT-ICR MS using HBF <sub>4</sub> as ionization promoter. <i>Fuel</i> , 2020, 278, 118334.	3.4	11
86	Specification of the nitrogen functional group in a hydrotreated petroleum molecule using hydrogen/deuterium exchange electrospray ionization high-resolution mass spectrometry. <i>Analyst</i> , 2020, 145, 4442-4451.	1.7	8
87	An international laboratory comparison of dissolved organic matter composition by high resolution mass spectrometry: Are we getting the same answer?. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 235-258.	1.0	109
88	Source identification and component characterization of dissolved organic matter in an acid mine drainage reservoir. <i>Science of the Total Environment</i> , 2020, 739, 139732.	3.9	29
89	Validation and Evaluation of High-Resolution Orbitrap Mass Spectrometry on Molecular Characterization of Dissolved Organic Matter. <i>ACS Omega</i> , 2020, 5, 5372-5379.	1.6	53
90	Separation and characterization of squalene and carotenoids derived sulfides in a low mature crude oil. <i>Fuel</i> , 2020, 270, 117536.	3.4	16

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91	Organic matter in delayed coking wastewater: Molecular composition and its effect on emulsification. <i>Fuel</i> , 2020, 279, 118432.	3.4	20
92	Processing of dissolved organic matter from surface waters to sediment pore waters in a temperate coastal wetland. <i>Science of the Total Environment</i> , 2020, 742, 140491.	3.9	28
93	Quantitative Molecular Composition of Heavy Petroleum Fractions: A Case Study of Fluid Catalytic Cracking Decant Oil. <i>Energy &amp; Fuels</i> , 2020, 34, 5307-5316.	2.5	29
94	Bio-reduction of ferrihydrite-montmorillonite-organic matter complexes: Effect of montmorillonite and fate of organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 276, 327-344.	1.6	39
95	Molecular investigation into the transformation of dissolved organic matter in mature landfill leachate during treatment in a combined membrane bioreactor-reverse osmosis process. <i>Journal of Hazardous Materials</i> , 2020, 397, 122759.	6.5	71
96	Molecular Characterization of Lignite Extracts of Methanol and Carbon Disulfide/N-Methyl-2-pyrrolidone by High-Resolution Mass Spectrometry. <i>ACS Omega</i> , 2020, 5, 31085-31091.	1.6	4
97	Molecular composition and spatial distribution of dissolved organic matter (DOM) in the Pearl River Estuary, China. <i>Environmental Chemistry</i> , 2020, 17, 240.	0.7	42
98	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
99	Comparison of UV/Persulfate and UV/H <sub>2</sub> O <sub>2</sub> for the removal of naphthenic acids and acute toxicity towards <i>Vibrio fischeri</i> from petroleum production process water. <i>Science of the Total Environment</i> , 2019, 694, 133686.	3.9	38
100	Molecular characterization of polar heteroatom species in oilsands bitumen-derived vacuum residue fractions by Fourier transform ion cyclotron resonance mass spectrometry. <i>Petroleum Science</i> , 2019, 16, 1196-1207.	2.4	8
101	Fractionation and molecular characterization of natural organic matter (NOM) by solid-phase extraction followed by FT-ICR MS and ion mobility MS. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6343-6352.	1.9	14
102	Fate of Labile Organic Carbon in Paddy Soil Is Regulated by Microbial Ferric Iron Reduction. <i>Environmental Science &amp; Technology</i> , 2019, 53, 8533-8542.	4.6	42
103	Preferential degradation of long-chain alkyl substituted hydrocarbons in heavy oil under methanogenic conditions. <i>Organic Geochemistry</i> , 2019, 138, 103927.	0.9	16
104	Occurrence and Origins of Thiols in Deep Strata Crude Oils, Tarim Basin, China. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 2499-2509.	1.2	7
105	Microbial Processing of Sediment-Derived Dissolved Organic Matter: Implications for Its Subsequent Biogeochemical Cycling in Overlying Seawater. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3479-3490.	1.3	44
106	Characteristics of dissolved organic matter in shallow groundwater in the Hetao basin. <i>E3S Web of Conferences</i> , 2019, 98, 02009.	0.2	0
107	Mesoscale Simulation for Heavy Petroleum System Using Structural Unit and Dissipative Particle Dynamics (SU-DPD) Frameworks. <i>Energy &amp; Fuels</i> , 2019, 33, 1049-1060.	2.5	31
108	Separation and Characterization of Sulfoxides in Crude Oils. <i>Energy &amp; Fuels</i> , 2019, 33, 796-804.	2.5	30

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109	Isolation and characterization of hydrophilic dissolved organic matter in waters by ion exchange solid phase extraction followed by high resolution mass spectrometry. <i>Environmental Chemistry Letters</i> , 2019, 17, 1857-1866.	8.3	21
110	Isolation and characterization of sulfur compounds in a lacustrine crude oil. <i>Fuel</i> , 2019, 253, 1482-1489.	3.4	43
111	Molecular Structure of Heavy Petroleum: Revealed by Molecular Composition of Ruthenium-Ion-Catalyzed Oxidation Products. <i>Energy &amp; Fuels</i> , 2019, 33, 4781-4791.	2.5	8
112	Compositional Characterization of Expelled and Residual Oils in the Source Rocks from Oil Generation "Expulsion Thermal Simulation Experiments. <i>ACS Omega</i> , 2019, 4, 8239-8248.	1.6	6
113	Inherent Metals of a Phytoremediation Plant Influence Its Recyclability by Hydrothermal Liquefaction. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6580-6586.	4.6	36
114	Molecular characterization of aldehydes and ketones in particle phase of mainstream and sidestream cigarette smoke. <i>Royal Society Open Science</i> , 2019, 6, 181832.	1.1	0
115	Ferrate oxidation of distinct naphthenic acids species isolated from process water of unconventional petroleum production. <i>Science of the Total Environment</i> , 2019, 672, 906-915.	3.9	5
116	Molecular characteristics of microbially mediated transformations of <i>Synechococcus</i> -derived dissolved organic matter as revealed by incubation experiments. <i>Environmental Microbiology</i> , 2019, 21, 2533-2543.	1.8	49
117	Transformation and fate of dissolved organic nitrogen in drinking water supply system: A full scale case study from Yixing, China. <i>Science of the Total Environment</i> , 2019, 673, 435-444.	3.9	21
118	Tracking alterations of alkyl side chains of N <sub>1</sub> species in heavy crude oil after anaerobic biodegradation with negative-ion electrospray ionization coupled with high-field Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 875-882.	0.7	1
119	Stratification of dissolved organic matter in the upper 2000 m water column at the Mariana Trench. <i>Science of the Total Environment</i> , 2019, 668, 1222-1231.	3.9	26
120	Optical and Molecular Signatures of Dissolved Organic Matter Reflect Anthropogenic Influence in a Coastal River, Northeast China. <i>Journal of Environmental Quality</i> , 2019, 48, 603-613.	1.0	63
121	Molecular Composition and Transformation of Dissolved Organic Matter (DOM) in Coal Gasification Wastewater. <i>Energy &amp; Fuels</i> , 2019, 33, 3003-3011.	2.5	25
122	Selective Methylation of Sulfides in Petroleum for Electrospray Ionization Mass Spectrometry Analysis. <i>Energy &amp; Fuels</i> , 2019, 33, 1797-1802.	2.5	16
123	Separation and characterization of marine dissolved organic matter (DOM) by combination of Fe(OH) <sub>3</sub> co-precipitation and solid phase extraction followed by ESI FT-ICR MS. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2201-2208.	1.9	11
124	Molecular composition modelling of petroleum fractions based on a hybrid structural unit and bond-electron matrix (SU-BEM) framework. <i>Chemical Engineering Science</i> , 2019, 201, 145-156.	1.9	29
125	Average Molecule Construction of Petroleum Fractions Based on <sup>1</sup> H-NMR. <i>AIChE Journal</i> , 2019, 65, 270-280.	1.8	8
126	Optical and molecular signatures of dissolved organic matter in Xiangxi Bay and mainstream of Three Gorges Reservoir, China: Spatial variations and environmental implications. <i>Science of the Total Environment</i> , 2019, 657, 1274-1284.	3.9	95

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127	Actinia-like multifunctional nanocoagulant for single-step removal of water contaminants. <i>Nature Nanotechnology</i> , 2019, 14, 64-71.	15.6	89
128	Chemometric Unmixing of Petroleum Mixtures by Negative Ion ESI FT-ICR MS Analysis. <i>Analytical Chemistry</i> , 2019, 91, 2209-2215.	3.2	27
129	Nonthermal air plasma dehydration of hydrochar improves its carbon sequestration potential and dissolved organic matter molecular characteristics. <i>Science of the Total Environment</i> , 2019, 659, 655-663.	3.9	23
130	Decarbonylation reaction of saturated and oxidized tar from pyrolysis of low aromaticity biomass boost reduction of hexavalent chromium. <i>Chemical Engineering Journal</i> , 2019, 360, 1042-1050.	6.6	14
131	Molecular transformation of dissolved organic matter in high-temperature hydrogen peroxide oxidation of a refinery wastewater. <i>Environmental Chemistry Letters</i> , 2019, 17, 1117-1123.	8.3	14
132	Organic Carbon Amendments Affect the Chemodiversity of Soil Dissolved Organic Matter and Its Associations with Soil Microbial Communities. <i>Environmental Science &amp; Technology</i> , 2019, 53, 50-59.	4.6	150
133	Molecular-level kinetic modelling of fluid catalytic cracking slurry oil hydrotreating. <i>Chemical Engineering Science</i> , 2019, 195, 619-630.	1.9	37
134	Development of heavy oil upgrading technologies in China. <i>Reviews in Chemical Engineering</i> , 2019, 36, 1-19.	2.3	35
135	Separation and Molecular Characterization of Ketones in a Low-Temperature Coal Tar. <i>Energy &amp; Fuels</i> , 2018, 32, 4662-4670.	2.5	30
136	Collision cross section (CCS) measurement by ion cyclotron resonance mass spectrometry with short-time Fourier transform. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 751-761.	0.7	6
137	Origin of polar organic sulfur compounds in immature crude oils revealed by ESI FT-ICR MS. <i>Organic Geochemistry</i> , 2018, 121, 36-47.	0.9	53
138	Comment on "Laser Desorption/Ionization Coupled to FTICR Mass Spectrometry for Studies of Natural Organic Matter". <i>Analytical Chemistry</i> , 2018, 90, 5965-5967.	3.2	12
139	Composition and Transformation of Sulfur-, Oxygen-, and Nitrogen-Containing Compounds in the Hydrotreating Process of a Low-Temperature Coal Tar. <i>Energy &amp; Fuels</i> , 2018, 32, 3077-3084.	2.5	40
140	Molecular Representation of the Petroleum Gasoline Fraction. <i>Energy &amp; Fuels</i> , 2018, 32, 1525-1533.	2.5	11
141	Influences of Temperature and Metal on Subcritical Hydrothermal Liquefaction of Hyperaccumulator: Implications for the Recycling of Hazardous Hyperaccumulators. <i>Environmental Science &amp; Technology</i> , 2018, 52, 2225-2234.	4.6	61
142	Cation-induced coagulation of aquatic plant-derived dissolved organic matter: Investigation by EEM-PARAFAC and FT-IR spectroscopy. <i>Environmental Pollution</i> , 2018, 234, 726-734.	3.7	50
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