

Oliver J Lechtenfeld

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,692
citations

279701

23
h-index

189801

50
g-index

71
all docs

71
docs citations

71
times ranked

3611
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermophilic archaea activate butane via alkyl-coenzyme M formation. <i>Nature</i> , 2016, 539, 396-401.	13.7	279
2	The GEOTRACES Intermediate Data Product 2017. <i>Chemical Geology</i> , 2018, 493, 210-223.	1.4	257
3	Molecular transformation and degradation of refractory dissolved organic matter in the Atlantic and Southern Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 126, 321-337.	1.6	247
4	Marine sequestration of carbon in bacterial metabolites. <i>Nature Communications</i> , 2015, 6, 6711.	5.8	223
5	A molecular perspective on the ageing of marine dissolved organic matter. <i>Biogeosciences</i> , 2012, 9, 1935-1955.	1.3	200
6	Dissolved organic sulfur in the ocean: Biogeochemistry of a petagram inventory. <i>Science</i> , 2016, 354, 456-459.	6.0	152
7	Anaerobic oxidation of ethane by archaea from a marine hydrocarbon seep. <i>Nature</i> , 2019, 568, 108-111.	13.7	149
8	Selectivity of solid phase extraction of freshwater dissolved organic matter and its effect on ultrahigh resolution mass spectra. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 918-927.	1.7	128
9	The Weddell Gyre, Southern Ocean: Present Knowledge and Future Challenges. <i>Reviews of Geophysics</i> , 2019, 57, 623-708.	9.0	105
10	A depth profile of uranium-236 in the Atlantic Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 77, 98-107.	1.6	55
11	Quantifying the impact of solid-phase extraction on chromophoric dissolved organic matter composition. <i>Marine Chemistry</i> , 2018, 207, 33-41.	0.9	48
12	Conditioning Film and Early Biofilm Succession on Plastic Surfaces. <i>Environmental Science & Technology</i> , 2021, 55, 11006-11018.	4.6	45
13	The influence of salinity on the molecular and optical properties of surface microlayers in a karstic estuary. <i>Marine Chemistry</i> , 2013, 150, 25-38.	0.9	43
14	Linking the mobilization of dissolved organic matter in catchments and its removal in drinking water treatment to its molecular characteristics. <i>Water Research</i> , 2017, 113, 149-159.	5.3	42
15	Characterizing chemical transformation of organophosphorus compounds by ¹³ C and ² H stable isotope analysis. <i>Science of the Total Environment</i> , 2018, 615, 20-28.	3.9	41
16	Improved Understanding of Dissolved Organic Matter Processing in Freshwater Using Complementary Experimental and Machine Learning Approaches. <i>Environmental Science & Technology</i> , 2020, 54, 13556-13565.	4.6	38
17	2D Liquid Chromatographic Fractionation with Ultra-high Resolution MS Analysis Resolves a Vast Molecular Diversity of Tropospheric Particle Organics. <i>Environmental Science & Technology</i> , 2019, 53, 11353-11363.	4.6	34
18	Photochemically Induced Changes of Dissolved Organic Matter in a Humic-Rich and Forested Stream. <i>Water (Switzerland)</i> , 2020, 12, 331.	1.2	30

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19	Dissolved organic matter in a tropical saline-alkaline lake of the East African Rift Valley.. <i>Water Research</i> , 2020, 173, 115532.	5.3	29
20	Online Counter Gradient LC-FT-ICR-MS Enables Detection of Highly Polar Natural Organic Matter Fractions. <i>Analytical Chemistry</i> , 2021, 93, 1740-1748.	3.2	29
21	Inorganics in Organics: Quantification of Organic Phosphorus and Sulfur and Trace Element Speciation in Natural Organic Matter Using HPLC-ICPMS. <i>Analytical Chemistry</i> , 2011, 83, 8968-8974.	3.2	27
22	High concentrations of dissolved biogenic methane associated with cyanobacterial blooms in East African lake surface water. <i>Communications Biology</i> , 2021, 4, 845.	2.0	26
23	Factors influencing particulate lipid production in the East Atlantic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 89, 56-67.	0.6	25
24	Quantifying a Biocatalytic Product from a Few Living Microbial Cells Using Microfluidic Cultivation Coupled to FT-ICR-MS. <i>Analytical Chemistry</i> , 2019, 91, 7012-7018.	3.2	25
25	High-frequency measurements explain quantity and quality of dissolved organic carbon mobilization in a headwater catchment. <i>Biogeosciences</i> , 2019, 16, 4497-4516.	1.3	22
26	Discovery of Polar Ozonation Byproducts via Direct Injection of Effluent Organic Matter with Online LC-FT-ICR-MS. <i>Environmental Science & Technology</i> , 2022, 56, 1894-1904.	4.6	22
27	Legacy Effects of Sorption Determine the Formation Efficiency of Mineral-Associated Soil Organic Matter. <i>Environmental Science & Technology</i> , 2022, 56, 2044-2053.	4.6	21
28	Photochemically Induced Bound Residue Formation of Carbamazepine with Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2017, 51, 5523-5530.	4.6	16
29	Aging and Molecular Changes of Dissolved Organic Matter Between Two Deep Oceanic Endmembers. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1449-1456.	1.9	15
30	Interlaboratory comparison of humic substances compositional space as measured by Fourier transform ion cyclotron resonance mass spectrometry (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2020, 92, 1447-1467.	0.9	15
31	Absorption Mode Spectral Processing Improves Data Quality of Natural Organic Matter Analysis by Fourier-Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1615-1618.	1.2	13
32	Online Nano Solid Phase Extraction Fourier-Transform Ion Cyclotron Resonance Mass Spectrometry Workflow to Analyze Small Scale Gradients of Soil Solution Organic Matter in the Rhizosphere. <i>Analytical Chemistry</i> , 2020, 92, 10442-10449.	3.2	13
33	Moxidectin toxicity to zebrafish embryos: Bioaccumulation and biomarker responses. <i>Environmental Pollution</i> , 2021, 283, 117096.	3.7	13
34	Production and transformation of dissolved neutral sugars and amino acids by bacteria in seawater. <i>Biogeosciences</i> , 2014, 11, 5349-5363.	1.3	11
35	Response to Comment on "Dissolved organic sulfur in the ocean: Biogeochemistry of a petagram inventory". <i>Science</i> , 2017, 356, 813-813.	6.0	10
36	Refinement of Compound Aromaticity in Complex Organic Mixtures by Stable Isotope Label Assisted Ultrahigh-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 9032-9038.	3.2	10

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37	Impacts of litter decay on organic leachate composition and reactivity. <i>Biogeochemistry</i> , 2021, 154, 99-117.	1.7	10
38	Direct Imaging of Plant Metabolites in the Rhizosphere Using Laser Desorption Ionization Ultra-High Resolution Mass Spectrometry. <i>Frontiers in Plant Science</i> , 2021, 12, 753812.	1.7	10
39	Multi-proxy approach involving ultrahigh resolution mass spectrometry and self-organising maps to investigate the origin and quality of sedimentary organic matter across a subtropical reservoir. <i>Organic Geochemistry</i> , 2021, 151, 104165.	0.9	9
40	Aromaticity Index with Improved Estimation of Carboxyl Group Contribution for Biogeochemical Studies. <i>Environmental Science & Technology</i> , 2022, 56, 2729-2737.	4.6	9
41	² H and ¹³ C isotope fractionation analysis of organophosphorus compounds for characterizing transformation reactions in biogas slurry: Potential for anaerobic treatment of contaminated biomass. <i>Water Research</i> , 2019, 163, 114882.	5.3	7
42	Dissolved Organic Matter in Continental Hydro-Geothermal Systems: Insights from Two Hot Springs of the East African Rift Valley. <i>Water (Switzerland)</i> , 2020, 12, 3512.	1.2	7
43	New Insights into the Seasonal Variation of DOM Quality of a Humic-Rich Drinking-Water Reservoir – Coupling 2D-Fluorescence and FTICR MS Measurements. <i>Water (Switzerland)</i> , 2021, 13, 1703.	1.2	7
44	Small-scale topography explains patterns and dynamics of dissolved organic carbon exports from the riparian zone of a temperate, forested catchment. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 6067-6086.	1.9	7
45	Quality of Dissolved Organic Matter Driven by Autotrophic and Heterotrophic Microbial Processes in a Large River. <i>Water (Switzerland)</i> , 2020, 12, 1577.	1.2	6
46	Direct analysis of fulvic acids adsorbed onto capped gold nanoparticles by laser desorption ionization Fourier-transform ion cyclotron resonance mass spectrometry. <i>Environmental Science: Nano</i> , 2021, 8, 2336-2346.	2.2	6
47	Delineating Source Contributions to Stream Dissolved Organic Matter Composition Under Baseflow Conditions in Forested Headwater Catchments. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2021, 126, e2021JG006425.	1.3	6
48	Iron Exports From Catchments Are Constrained by Redox Status and Topography. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	6
49	Lagrangian profiles of riverine autotrophy, organic matter transformation, and micropollutants at extreme drought. <i>Science of the Total Environment</i> , 2022, 828, 154243.	3.9	6
50	Validation of a field deployable reactor for <i>in situ</i> formation of NOM-engineered nanoparticle corona. <i>Environmental Science: Nano</i> , 2020, 7, 486-500.	2.2	5
51	Exploring the potential of laser desorption ionisation time-of-flight mass spectrometry to analyse organic capping agents on inorganic nanoparticle surfaces. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5261-5271.	1.9	4
52	Zebrafish Oatp1d1 Acts as a Cellular Efflux Transporter of the Anionic Herbicide Bromoxynil. <i>Chemical Research in Toxicology</i> , 2022, . .	1.7	0