Mourad Harir

List of Publications by Year
in descending order

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51 papers	3,042 citations	172457 29 h-index	189892 50 g-index
53 all docs	53 docs citations	53 times ranked	4069 citing authors

#	Article	IF	Citations
1	High molecular diversity of extraterrestrial organic matter in Murchison meteorite revealed 40 years after its fall. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2763-2768.	7.1	466
2	Radar-Enabled Recovery of the Sutterâ€™s Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. Science, 2012, 338, 1583-1587.	12.6	191
3	Variations of DOM Quality in Inflows of a Drinking Water Reservoir: Linking of van Krevelen Diagrams with EEMF Spectra by Rank Correlation. Environmental Science & Technology, 2012, 46, 5511-5518.	10.0	180
4	Analysis of the Unresolved Organic Fraction in Atmospheric Aerosols with Ultrahigh-Resolution Mass Spectrometry and Nuclear Magnetic Resonance Spectroscopy: Organosulfates As Photochemical Smog Constituents. Analytical Chemistry, 2010, 82, 8017-8026.	6.5	158
5	Structural characterization of organic aerosol using Fourier transform ion cyclotron resonance mass spectrometry: Aromaticity equivalent approach. Rapid Communications in Mass Spectrometry, 2014, 28, 2445-2454.	1.5	119
6	Understanding molecular formula assignment of Fourier transform ion cyclotron resonance mass spectrometry data of natural organic matter from a chemical point of view. Analytical and Bioanalytical Chemistry, 2014, 406, 7977-7987.	3.7	119
7	Water droplets in oil are microhabitats for microbial life. Science, 2014, 345, 673-676.	12.6	118
8	Proposed Guidelines for Solid Phase Extraction of Suwannee River Dissolved Organic Matter. Analytical Chemistry, 2016, 88, 6680-6688.	6.5	118
9	Distinct signatures of hostâ€“microbial meta-metabolome and gut microbiome in two C57BL/6 strains under high-fat diet. ISME Journal, 2014, 8, 2380-2396.	9.8	106
10	Molecular characterization of dissolved organic matter from subtropical wetlands: a comparative study through the analysis of optical properties, NMR and FTICR/MS. Biogeosciences, 2016, 13, 2257-2277.	3.3	105
11	How representative are dissolved organic matter (DOM) extracts? A comprehensive study of sorbent selectivity for DOM isolation. Water Research, 2017, 116, 316-323.	11.3	98
12	Molecular and structural characterization of dissolved organic matter during and post cyanobacterial bloom in Taihu by combination of NMR spectroscopy and FTICR mass spectrometry. Water Research, 2014, 57, 280-294.	11.3	87
13	Sulfonolipids as novel metabolite markers of Alistipes and Odoribacter affected by high-fat diets. Scientific Reports, 2017, 7, 11047.	3.3	78
14	Extensive processing of sediment pore water dissolved organic matter during anoxic incubation as observed by high-field mass spectrometry (FTICR-MS). Water Research, 2018, 129, 252-263.	11.3	78
15	Trends in CEâ€MS 2005â€“2006. Electrophoresis, 2008, 29, 66-79.	2.4	72
16	Tracking Aging of Bitumen and Its Saturate, Aromatic, Resin, and Asphaltene Fractions Using High-Field Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Energy & Fuels, 2017, 31, 4771-4779.	5.1	66
17	A new approach for evaluating transformations of dissolved organic matter (DOM) via high-resolution mass spectrometry and relating it to bacterial activity. Water Research, 2017, 123, 513-523.	11.3	52
18	Differences in DOM of rewetted and natural peatlands â€“ Results from high-field FT-ICR-MS and bulk optical parameters. Science of the Total Environment, 2017, 586, 770-781.	8.0	50

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19	Molecular change of dissolved organic matter and patterns of bacterial activity in a stream along a land-use gradient. Water Research, 2019, 164, 114919.	11.3	50
20	Molecular formula assignment for dissolved organic matter (DOM) using high-field FT-ICR-MS: chemical perspective and validation of sulphur-rich organic components (CHOS) in pit lake samples. Analytical and Bioanalytical Chemistry, 2016, 408, 2461-2469.	3.7	48
21	Previously unknown class of metalorganic compounds revealed in meteorites. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2819-2824.	7.1	47
22	High-field FT-ICR mass spectrometry and NMR spectroscopy to characterize DOM removal through a nanofiltration pilot plant. Water Research, 2014, 67, 154-165.	11.3	45
23	Molecular differences between water column and sediment pore water SPE-DOM in ten Swedish boreal lakes. Water Research, 2020, 170, 115320.	11.3	45
24	Identification of Weak and Strong Organic Acids in Atmospheric Aerosols by Capillary Electrophoresis/Mass Spectrometry and Ultra-High-Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2012, 84, 6586-6594.	6.5	42
25	Ultrahigh-resolution FT-ICR mass spectrometry for molecular characterisation of pressurised hot water-extractable organic matter in soils. Biogeochemistry, 2016, 128, 307-326.	3.5	42
26	Systems chemical analytics: introduction to the challenges of chemical complexity analysis. Faraday Discussions, 2019, 218, 9-28.	3.2	40
27	Waterworks-specific composition of drinking water disinfection by-products. Environmental Science: Water Research and Technology, 2019, 5, 861-872.	2.4	38
28	Land-based salmon aquacultures change the quality and bacterial degradation of riverine dissolved organic matter. Scientific Reports, 2017, 7, 43739.	3.3	36
29	Redox Conditions Affect Dissolved Organic Carbon Quality in Stratified Freshwaters. Environmental Science & Technology, 2017, 51, 13705-13713.	10.0	29
30	Characterisation of dissolved organic matter using Fourier-transform ion cyclotron resonance mass spectrometry: Type-specific unique signatures and implications for reactivity. Science of the Total Environment, 2018, 644, 68-76.	8.0	29
31	High-Field FTICR-MS Data Evaluation of Natural Organic Matter: Are CHON₅S₂ Molecular Class Formulas Assigned to ¹³C Isotopic m/z and in Reality CHO Components?. Analytical Chemistry, 2015, 87, 9563-9566.	6.5	27
32	New molecular evidence of wine yeast-bacteria interaction unraveled by non-targeted exometabolomic profiling. Metabolomics, 2016, 12, 1.	3.0	26
33	High field FT-ICR mass spectrometry data sets enlighten qualitative DOM alteration in lake sediment porewater profiles. Organic Geochemistry, 2017, 108, 51-60.	1.8	25
34	Yellowstone Hot Springs are Organic Chemodiversity Hot Spots. Scientific Reports, 2018, 8, 14155.	3.3	25
35	Comprehensive structure-selective characterization of dissolved organic matter by reducing molecular complexity and increasing analytical dimensions. Water Research, 2016, 106, 477-487.	11.3	24
36	The discovery of Lake Hephaestus, the youngest athalassohaline deep-sea formation on Earth. Scientific Reports, 2019, 9, 1679.	3.3	24

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37	High field FT-ICR mass spectrometry for molecular characterization of snow board from Moscow regions. Science of the Total Environment, 2016, 557-558, 12-19.	8.0	20
38	The Braunschweig meteorite â˜ a recent L6 chondrite fall in Germany. Chemie Der Erde, 2017, 77, 207-224.	2.0	16
39	Preferential Sorption of Tannins at Aluminum Oxide Affects the Electron Exchange Capacities of Dissolved and Sorbed Humic Acid Fractions. Environmental Science & Technology, 2020, 54, 1837-1847.	10.0	16
40	Preparative freeâ€flow electrophoretic offline ESIâ€Fourier transform ion cyclotron resonance/MS analysis of Suwannee River fulvic acid. Electrophoresis, 2010, 31, 2070-2079.	2.4	15
41	Tracking the formation of new brominated disinfection by-products during the seawater desalination process. Environmental Science: Water Research and Technology, 2020, 6, 2521-2541.	2.4	12
42	Molecular and spectroscopic changes of peat-derived organic matter following photo-exposure: Effects on heteroatom composition of DOM. Science of the Total Environment, 2022, 838, 155790.	8.0	12
43	Chromatography and High-Resolution Mass Spectrometry for the Characterization of the Degradation Products of the Photodegradation of Amidosulfuron: An Analytical Approach. Journal of Agricultural and Food Chemistry, 2013, 61, 5271-5278.	5.2	11
44	The CM carbonaceous chondrite regolith Diepenveen. Meteoritics and Planetary Science, 2019, 54, 1431-1461.	1.6	9
45	A chemical and microbial characterization of selected mud volcanoes in Trinidad reveals pathogens introduced by surface water and rain water. Science of the Total Environment, 2020, 707, 136087.	8.0	5
46	Sulfate Alters the Competition Among Microbiome Members of Sediments Chronically Exposed to Asphalt. Frontiers in Microbiology, 2020, 11, 556793.	3.5	5
47	Molecular changes among non-volatile disinfection by-products between drinking water treatment and consumer taps. Environmental Science: Water Research and Technology, 2021, 7, 2335-2345.	2.4	5
48	Organic sulfur fingerprint indicates continued injection fluid signature 10 months after hydraulic fracturing. Environmental Sciences: Processes and Impacts, 2019, 21, 206-213.	3.5	4
49	Mining for Active Molecules in Probiotic Supernatant by Combining Non-Targeted Metabolomics and Immunoregulation Testing. Metabolites, 2022, 12, 35.	2.9	3
50	Unveiling microbial preservation under hyperacidic and oxidizing conditions in the Oligocene Rio Tinto deposit. Scientific Reports, 2021, 11, 21543.	3.3	2
51	Substantial Biogeochemical and Biomolecular Processing of Dissolved Organic Matter in an Anticyclonic Eddy in the Northern South China Sea Down to Bathypelagic Depths. Frontiers in Marine Science, 2022, 9, .	2.5	0