

# Katherine M Mullaugh

## List of Publications by Year in descending order

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32  
papers

754  
citations

394286

19  
h-index

526166

27  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1284  
citing authors

#	ARTICLE	IF	CITATIONS
1	Marine Chemical Technology and Sensors for Marine Waters: Potentials and Limits. <i>Annual Review of Marine Science</i> , 2009, 1, 91-115.	5.1	78
2	Lipophilic G-Quadruplexes Are Self-Assembled Ion Pair Receptors, and the Bound Anion Modulates the Kinetic Stability of These Complexes. <i>Journal of the American Chemical Society</i> , 2003, 125, 10830-10841.	6.6	71
3	Formation of Zn- and Fe-sulfides near hydrothermal vents at the Eastern Lau Spreading Center: implications for sulfide bioavailability to chemoautotrophs. <i>Geochemical Transactions</i> , 2008, 9, 6.	1.8	44
4	Insights into dissolved organic matter complexity in rainwater from continental and coastal storms by ultrahigh resolution Fourier transform ion cyclotron resonance mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4829-4838.	1.9	44
5	Isotopic composition of nitrate in sequential Hurricane Irene precipitation samples: Implications for changing NO <sub>x</sub> sources. <i>Atmospheric Environment</i> , 2015, 106, 191-195.	1.9	41
6	Growth kinetics and long-term stability of CdS nanoparticles in aqueous solution under ambient conditions. <i>Journal of Nanoparticle Research</i> , 2011, 13, 393-404.	0.8	39
7	Voltammetric (Micro)Electrodes for the In Situ Study of Fe <sup>2+</sup> Oxidation Kinetics in Hot Springs and S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> Production at Hydrothermal Vents. <i>Electroanalysis</i> , 2008, 20, 280-290.	1.5	34
8	Spectroscopic determination of the size of cadmium sulfide nanoparticles formed under environmentally relevant conditions. <i>Journal of Environmental Monitoring</i> , 2010, 12, 890.	2.1	33
9	Temporal and spatial variability of trace volatile organic compounds in rainwater. <i>Chemosphere</i> , 2015, 134, 203-209.	4.2	33
10	Stability of silver nanoparticle sulfidation products. <i>Science of the Total Environment</i> , 2019, 648, 854-860.	3.9	31
11	Distribution of mega fauna on sulfide edifices on the Eastern Lau Spreading Center and Valu Fa Ridge. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2013, 72, 48-60.	0.6	30
12	Hydrothermal Vent Mussel Habitat Chemistry, Pre- and Post-Eruption at 9°50'N on the East Pacific Rise. <i>Journal of Shellfish Research</i> , 2008, 27, 169-175.	0.3	29
13	Long-Term Temporal Variability in Hydrogen Peroxide Concentrations in Wilmington, North Carolina USA Rainwater. <i>Environmental Science &amp; Technology</i> , 2011, 45, 9538-9542.	4.6	28
14	Short term temporal variability in the photochemically mediated alteration of chromophoric dissolved organic matter (CDOM) in rainwater. <i>Atmospheric Environment</i> , 2012, 50, 112-119.	1.9	27
15	Variation in Sulfur Speciation with Shellfish Presence at a Lau Basin Diffuse Flow Vent Site. <i>Journal of Shellfish Research</i> , 2008, 27, 163-168.	0.3	24
16	Dynamics of the chemical composition of rainwater throughout Hurricane Irene. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2321-2330.	1.9	24
17	Carbon isotopic characterization of hydrophobic dissolved organic carbon in rainwater. <i>Atmospheric Environment</i> , 2013, 68, 230-234.	1.9	23
18	Pseudopolarographic Determination of Cd <sup>2+</sup> Complexation in Freshwater. <i>Environmental Science &amp; Technology</i> , 2006, 40, 5388-5394.	4.6	21

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19	Characterization of carbohydrates in rainwater from the Southeastern North Carolina. <i>Chemosphere</i> , 2014, 107, 51-57.	4.2	21
20	Kinetic Control in Noncovalent Synthesis: Regioselective Ligand Exchange into a Hydrogen Bonded Assembly. <i>Organic Letters</i> , 2004, 6, 4265-4268.	2.4	19
21	Surface waters as a sink and source of atmospheric gas phase ethanol. <i>Chemosphere</i> , 2016, 144, 360-365.	4.2	14
22	Removal of atmospheric ethanol by wet deposition. <i>Global Biogeochemical Cycles</i> , 2017, 31, 348-356.	1.9	12
23	Controls on the Redox Potential of Rainwater. <i>Environmental Science &amp; Technology</i> , 2012, 46, 13103-13111.	4.6	7
24	Determination of ambient dissolved metal ligand complexation parameters via kinetics and pseudo-voltammetry experiments. <i>Marine Chemistry</i> , 2021, 234, 103998.	0.9	7
25	Comprehensive Study of the Formation and Reaction of a Tethered N-Hydroxysulfosuccinimidyl Ester Used to Covalently Tether Proteins to Surfaces. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15808-15814.	1.2	5
26	Influence of dissolved organic carbon on photochemically mediated cycling of hydrogen peroxide in rainwater. <i>Journal of Atmospheric Chemistry</i> , 2009, 64, 149-158.	1.4	4
27	Variability of ethanol concentration in rainwater driven by origin versus season in coastal and inland North Carolina, USA. <i>Chemosphere</i> , 2018, 195, 793-799.	4.2	4
28	Use of carbon paste electrodes for the voltammetric detection of silver leached from the oxidative dissolution of silver nanoparticles. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	2
29	A voltammetric investigation of the sulfidation of silver nanoparticles by zinc sulfide. <i>Science of the Total Environment</i> , 2020, 720, 137685.	3.9	2
30	Field-Based Analytical Chemistry Laboratory Experiences Performed in Collaboration with Governmental Agencies and in the Context of a Study Abroad Program. <i>ACS Symposium Series</i> , 0, , 205-220.	0.5	2
31	Voltammetric Characterization of Dissolved Cadmium Sulfide Species. <i>Electroanalysis</i> , 2011, 23, 2735-2742.	1.5	1
32	The Primarily Undergraduate Nanomaterials Cooperative: A New Model for Supporting Collaborative Research at Small Institutions on a National Scale. <i>ACS Nanoscience Au</i> , 2021, 1, 6-14.	2.0	0