Scott Mundle

List of Publications by Year
in descending order

35	720	623734 14	552781 26
papers	citations	h-index	g-index

38	38	38	813
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Methane sources and sinks in continental sedimentary systems: New insights from paired clumped isotopologues 13CH3D and 12CH2D2. Geochimica Et Cosmochimica Acta, 2019, 245, 327-351.	3.9	65
2	Decarboxylation via Addition of Water to a Carboxyl Group: Acid Catalysis of Pyrrole-2-Carboxylic Acid. Journal of the American Chemical Society, 2009, 131, 11674-11675.	13.7	52
3	Understanding and managing the re-eutrophication of Lake Erie: Knowledge gaps and research priorities. Freshwater Science, 2019, 38, 675-691.	1.8	51
4	Insights into Enzyme Kinetics of Chloroethane Biodegradation Using Compound Specific Stable Isotopes. Environmental Science & Technology, 2010, 44, 7498-7503.	10.0	50
5	Monitoring Biodegradation of Ethene and Bioremediation of Chlorinated Ethenes at a Contaminated Site Using Compound-Specific Isotope Analysis (CSIA). Environmental Science & Technology, 2012, 46, 1731-1738.	10.0	50
6	Eukaryotic opportunists dominate the deep-subsurface biosphere in South Africa. Nature Communications, 2015, 6, 8952.	12.8	48
7	Hydrolytic Decarboxylation of Carboxylic Acids and the Formation of Protonated Carbonic Acid. Journal of the American Chemical Society, 2010, 132, 2430-2436.	13.7	44
8	Large Carbon Isotope Fractionation during Biodegradation of Chloroform by Dehalobacter Cultures. Environmental Science & Technology, 2012, 46, 10154-10160.	10.0	38
9	Internal Return of Carbon Dioxide in Decarboxylation: Catalysis of Separation and ¹²C/¹³C Kinetic Isotope Effects. Journal of the American Chemical Society, 2009, 131, 11638-11639.	13.7	32
10	Increased nutrient concentrations in Lake Erie tributaries influenced by greenhouse agriculture. Science of the Total Environment, 2018, 633, 433-440.	8.0	28
11	Distinct Carbon Isotope Fractionation during Anaerobic Degradation of Dichlorobenzene Isomers. Environmental Science & Technology, 2014, 48, 4844-4851.	10.0	24
12	Water and sediment as sources of phosphate in aquatic ecosystems: The Detroit River and its role in the Laurentian Great Lakes. Science of the Total Environment, 2019, 647, 1594-1603.	8.0	24
13	Diffusion Sampler for Compound Specific Carbon Isotope Analysis of Dissolved Hydrocarbon Contaminants. Environmental Science & Technology, 2014, 48, 9582-9590.	10.0	21
14	Protonated Carbonic Acid and Reactive Intermediates in the Acidic Decarboxylation of Indolecarboxylic Acids. Journal of Organic Chemistry, 2012, 77, 6505-6509.	3.2	18
15	Fate and transport of dissolved methane and ethane in cretaceous shales of the Williston Basin, Canada. Water Resources Research, 2016, 52, 6440-6450.	4.2	17
16	Pressureâ€monitored headspace analysis combined with compoundâ€specific isotope analysis to measure isotope fractionation in gasâ€producing reactions. Rapid Communications in Mass Spectrometry, 2013, 27, 1778-1784.	1.5	14
17	New ecosystems in the deep subsurface follow the flow of water driven by geological activity. Scientific Reports, 2019, 9, 3310.	3.3	14
18	Avoiding CO2 in Catalysis of Decarboxylation. Advances in Physical Organic Chemistry, 2013, 47, 85-128.	0.5	11

#	Article	IF	Citations
19	Fate and Transport of Shale-derived, Biogenic Methane. Scientific Reports, 2017, 7, 4881.	3.3	11
20	Distinguishing point and non-point sources of dissolved nutrients, metals, and legacy contaminants in the Detroit River. Science of the Total Environment, 2019, 681, 1-8.	8.0	11
21	Determining the role of diffusion and basement flux in controlling 4He distribution in sedimentary basin fluids. Earth and Planetary Science Letters, 2021, 574, 117175.	4.4	11
22	Investigating the Mechanism of Heteroaromatic Decarboxylation Using Solvent Kinetic Isotope Effects and Eyring Transition-State Theory. Journal of Chemical Education, 2011, 88, 1004-1006.	2.3	10
23	The Hammett Equation: Probing the Mechanism of Aromatic Semicarbazone Formation. Journal of Chemical Education, 2006, 83, 1341.	2.3	9
24	Branched pathways in the degradation of cDCE by cytochrome P450 in Polaromonas sp. JS666. Science of the Total Environment, 2017, 605-606, 99-105.	8.0	8
25	Measuring Concentrations of Dissolved Methane and Ethane and the ¹³C of Methane in Shale and Till. Ground Water, 2017, 55, 119-128.	1.3	8
26	Soil gas investigation of an alleged gas migration issue on a residential farm located above the Weyburn-Midale CO2 enhanced oil recovery project. International Journal of Greenhouse Gas Control, 2019, 81, 11-20.	4.6	8
27	â€˜Nitrification kinetics and microbial community dynamics of attached biofilm in wastewater treatmentâ€™. Water Science and Technology, 2020, 81, 891-905.	2.5	8
28	Carbon Kinetic Isotope Effects Reveal Variations in Reactivity of Intermediates in the Formation of Protonated Carbonic Acid. Journal of Organic Chemistry, 2013, 78, 12176-12181.	3.2	7
29	Developing deep high-resolution concentration and 13C isotope profiles for methane, ethane, and propane. Journal of Petroleum Science and Engineering, 2018, 170, 280-290.	4.2	7
30	The role of pre-association in BrÃ¸nsted acid-catalyzed decarboxylation and related processes. Advances in Physical Organic Chemistry, 2010, , 357-375.	0.5	6
31	Citizen Science Data Show Temperature-Driven Declines in Riverine Sentinel Invertebrates. Environmental Science and Technology Letters, 2020, 7, 303-307.	8.7	6
32	Origins of Steric Effects in General-Base-Catalyzed Enolization: Solvation and Electrostatic Attraction. Journal of the American Chemical Society, 2012, 134, 1066-1070.	13.7	5
33	Ultravioletâ€visual spectroscopy estimation of nitrate concentrations in surface waters via machine learning. Limnology and Oceanography: Methods, 2022, 20, 26-33.	2.0	3
34	Geochemical Approaches to Improve Nutrient Source Tracking in the Great Lakes. Handbook of Environmental Chemistry, 2020, , 183-216.	0.4	1
35	Determining Carbon Kinetic Isotope Effects Using Headspace Analysis of Evolved CO 2. Methods in Enzymology, 2017, 596, 501-522.	1.0	0