

John D Kessler

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,378
citations

249298

26
h-index

206121

51
g-index

55
all docs

55
docs citations

55
times ranked

4536
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating the Impact of Seep Methane Oxidation on Ocean pH and Dissolved Inorganic Radiocarbon Along the U.S. Mid-Atlantic Bight. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, .	1.3	13
2	Elevated levels of radiocarbon in methane dissolved in seawater reveal likely local contamination from nuclear powered vessels. <i>Science of the Total Environment</i> , 2021, 806, 150456.	3.9	1
3	Radiocarbon in Marine Methane Reveals Patchy Impact of Seeps on Surface Waters. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089516.	1.5	6
4	Dynamics of Gas Bubbles From a Submarine Hydrocarbon Seep Within the Hydrate Stability Zone. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089256.	1.5	17
5	Surface Methane Concentrations Along the Mid-Atlantic Bight Driven by Aerobic Subsurface Production Rather Than Seafloor Gas Seeps. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015989.	1.0	9
6	Ideas and perspectives: A strategic assessment of methane and nitrous oxide measurements in the marine environment. <i>Biogeosciences</i> , 2020, 17, 5809-5828.	1.3	16
7	Methane Sources in the Waters of Lake Michigan and Lake Superior as Revealed by Natural Radiocarbon Measurements. <i>Geophysical Research Letters</i> , 2019, 46, 5436-5444.	1.5	10
8	Investigations of Aerobic Methane Oxidation in Two Marine Seep Environments: Part 1- Chemical Kinetics. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8852-8868.	1.0	11
9	Investigations of Aerobic Methane Oxidation in Two Marine Seep Environments: Part 2- Isotopic Kinetics. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 8392-8399.	1.0	4
10	Limited contribution of ancient methane to surface waters of the U.S. Beaufort Sea shelf. <i>Science Advances</i> , 2018, 4, eaao4842.	4.7	43
11	Using Carbon Isotope Fractionation to Constrain the Extent of Methane Dissolution Into the Water Column Surrounding a Natural Hydrocarbon Gas Seep in the Northern Gulf of Mexico. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4459-4475.	1.0	24
12	Comment on "The origin of methane in the East Siberian Arctic Shelf unraveled with triple isotope analysis" by Sapart et al. (2017). <i>Biogeosciences</i> , 2018, 15, 4777-4779.	1.3	2
13	Limited Acute Influence of Aerobic Methane Oxidation on Ocean Carbon Dioxide and pH in Hudson Canyon, Northern U.S. Atlantic Margin. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2135-2144.	1.3	13
14	Rapid rates of aerobic methane oxidation at the feather edge of gas hydrate stability in the waters of Hudson Canyon, US Atlantic Margin. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 204, 375-387.	1.6	43
15	Efficient collection and preparation of methane from low concentration waters for natural abundance radiocarbon analysis. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 601-617.	1.0	12
16	The interaction of climate change and methane hydrates. <i>Reviews of Geophysics</i> , 2017, 55, 126-168.	9.0	560
17	Light rare earth element depletion during Deepwater Horizon blowout methanotrophy. <i>Scientific Reports</i> , 2017, 7, 10389.	1.6	75
18	Methane transport through submarine groundwater discharge to the North Pacific and Arctic Ocean at two Alaskan sites. <i>Limnology and Oceanography</i> , 2016, 61, S344.	1.6	43

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19	Methane occurrence is associated with sodium-rich valley waters in domestic wells overlying the Marcellus shale in New York State. <i>Water Resources Research</i> , 2016, 52, 206-226.	1.7	22
20	Determining the flux of methane into Hudson Canyon at the edge of methane clathrate hydrate stability. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 3882-3892.	1.0	19
21	Dissolved methane and carbon dioxide fluxes in Subarctic and Arctic regions: Assessing measurement techniques and spatial gradients. <i>Earth and Planetary Science Letters</i> , 2016, 436, 43-55.	1.8	23
22	Aqueous Mesocosm Techniques Enabling the Real-Time Measurement of the Chemical and Isotopic Kinetics of Dissolved Methane and Carbon Dioxide. <i>Environmental Science & Technology</i> , 2016, 50, 3039-3046.	4.6	6
23	A rapid method for preparing low volume CH ₄ and CO ₂ gas samples for 14 C AMS analysis. <i>Organic Geochemistry</i> , 2015, 78, 89-98.	0.9	28
24	Methane transport from the active layer to lakes in the Arctic using Toolik Lake, Alaska, as a case study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3636-3640.	3.3	55
25	Current Magnitude and Mechanisms of Groundwater Discharge in the Arctic: Case Study from Alaska. <i>Environmental Science & Technology</i> , 2015, 49, 12036-12043.	4.6	34
26	Atlantic bubble bath. <i>Nature Geoscience</i> , 2014, 7, 625-626.	5.4	9
27	High Resolution Measurements of Methane and Carbon Dioxide in Surface Waters over a Natural Seep Reveal Dynamics of Dissolved Phase Air-Sea Flux. <i>Environmental Science & Technology</i> , 2014, 48, 10165-10173.	4.6	15
28	Using Discriminant Analysis to Determine Sources of Salinity in Shallow Groundwater Prior to Hydraulic Fracturing. <i>Environmental Science & Technology</i> , 2014, 48, 9061-9069.	4.6	40
29	Responses of the dinoflagellate <i>Karenia brevis</i> to climate change: pCO ₂ and sea surface temperatures. <i>Harmful Algae</i> , 2014, 37, 110-116.	2.2	54
30	Measurement of the ¹³ C/ ¹² C of Atmospheric CH ₄ Using Near-Infrared (NIR) Cavity Ring-Down Spectroscopy. <i>Analytical Chemistry</i> , 2013, 85, 11250-11257.	3.2	28
31	Chemical data quantify Deepwater Horizon hydrocarbon flow rate and environmental distribution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20246-20253.	3.3	258
32	Methane fluxes to the atmosphere from deepwater hydrocarbon seeps in the northern Gulf of Mexico. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	30
33	Assessment of the Spatial and Temporal Variability of Bulk Hydrocarbon Respiration Following the Deepwater Horizon Oil Spill. <i>Environmental Science & Technology</i> , 2012, 46, 10499-10507.	4.6	57
34	A Persistent Oxygen Anomaly Reveals the Fate of Spilled Methane in the Deep Gulf of Mexico. <i>Science</i> , 2011, 331, 312-315.	6.0	420
35	Methane flux to the atmosphere from the Deepwater Horizon oil disaster. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	50
36	Methane sources and sinks in Lake Kivu. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	96

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37	The methane cycle in ferruginous Lake Matano. <i>Geobiology</i> , 2011, 9, 61-78.	1.1	159
38	Response to Comment on "A Persistent Oxygen Anomaly Reveals the Fate of Spilled Methane in the Deep Gulf of Mexico" • <i>Science</i> , 2011, 332, 1033-1033.	6.0	14
39	Propane Respiration Jump-Starts Microbial Response to a Deep Oil Spill. <i>Science</i> , 2010, 330, 208-211.	6.0	444
40	Molecular and isotopic partitioning of low-molecular-weight hydrocarbons during migration and gas hydrate precipitation in deposits of a high-flux seepage site. <i>Chemical Geology</i> , 2010, 269, 350-363.	1.4	102
41	A survey of methane isotope abundance (¹⁴ C, ¹³ C, ² H) from five nearshore marine basins that reveals unusual radiocarbon levels in subsurface waters. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	32
42	Controls on methane concentration and stable isotope (² H-CH ₄ and ¹³ C-CH ₄) distributions in the water columns of the Black Sea and Cariaco Basin. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	1.9	41
43	Basin-wide estimates of the input of methane from seeps and clathrates to the Black Sea. <i>Earth and Planetary Science Letters</i> , 2006, 243, 366-375.	1.8	80
44	Martian CH ₄ : Sources, Flux, and Detection. <i>Astrobiology</i> , 2006, 6, 377-395.	1.5	89
45	On the isolation of elemental carbon (EC) for micro-molar ¹⁴ C accelerator mass spectrometry: development of a hybrid reference material for ¹⁴ C-EC accuracy assurance, and a critical evaluation of the thermal optical kinetic (TOK) EC isolation procedure. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 2833-2845.	1.9	13
46	Long range transport of biomass aerosol to Greenland: Multi-spectroscopic investigation of particles deposited in the snow. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 263, 399-411.	0.7	7
47	Preparation of natural methane samples for stable isotope and radiocarbon analysis. <i>Limnology and Oceanography: Methods</i> , 2005, 3, 408-418.	1.0	28
48	Fossil methane source dominates Cariaco Basin water column methane geochemistry. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	41
49	A critical evaluation of interlaboratory data on total, elemental, and isotopic carbon in the carbonaceous particle reference material, NIST SRM 1649a. <i>Journal of Research of the National Institute of Standards and Technology</i> , 2002, 107, 279.	0.4	163
50	Low-level (submicromole) environmental ¹⁴ C metrology. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000, 172, 440-448.	0.6	17