

# Jeff Chanton

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3977670/publications.pdf>

Version: 2024-02-01

210  
papers

15,846  
citations

10389

72  
h-index

20961

115  
g-index

217  
all docs

217  
docs citations

217  
times ranked

11495  
citing authors

#	ARTICLE	IF	CITATIONS
1	Methane bubbling from Siberian thaw lakes as a positive feedback to climate warming. <i>Nature</i> , 2006, 443, 71-75.	27.8	890
2	Primary production control of methane emission from wetlands. <i>Nature</i> , 1993, 364, 794-795.	27.8	690
3	Host-linked soil viral ecology along a permafrost thaw gradient. <i>Nature Microbiology</i> , 2018, 3, 870-880.	13.3	372
4	Genome-centric view of carbon processing in thawing permafrost. <i>Nature</i> , 2018, 560, 49-54.	27.8	337
5	Methane dynamics regulated by microbial community response to permafrost thaw. <i>Nature</i> , 2014, 514, 478-481.	27.8	321
6	Gas transport from methane-saturated, tidal freshwater and wetland sediments. <i>Limnology and Oceanography</i> , 1989, 34, 807-819.	3.1	278
7	Controls on CH <sub>4</sub> emissions from a northern peatland. <i>Global Biogeochemical Cycles</i> , 1999, 13, 81-91.	4.9	268
8	Changes in peat chemistry associated with permafrost thaw increase greenhouse gas production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5819-5824.	7.1	268
9	Expert assessment of vulnerability of permafrost carbon to climate change. <i>Climatic Change</i> , 2013, 119, 359-374.	3.6	257
10	Radiocarbon evidence for the substrates supporting methane formation within northern Minnesota peatlands. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 3663-3668.	3.9	250
11	Assessing the impacts of oil-associated marine snow formation and sedimentation during and after the Deepwater Horizon oil spill. <i>Anthropocene</i> , 2016, 13, 18-33.	3.3	222
12	Greenhouse carbon balance of wetlands: methane emission versus carbon sequestration. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001, 53, 521-528.	1.6	215
13	Geologic methane seeps along boundaries of Arctic permafrost thaw and melting glaciers. <i>Nature Geoscience</i> , 2012, 5, 419-426.	12.9	211
14	Patterns of groundwater discharge into Florida Bay. <i>Limnology and Oceanography</i> , 1999, 44, 1045-1055.	3.1	208
15	Using Natural Abundance Radiocarbon To Trace the Flux of Petrocarbon to the Seafloor Following the Deepwater Horizon Oil Spill. <i>Environmental Science &amp; Technology</i> , 2015, 49, 847-854.	10.0	199
16	Evaluation of a Biologically Active Cover for Mitigation of Landfill Gas Emissions. <i>Environmental Science &amp; Technology</i> , 2004, 38, 4891-4899.	10.0	192
17	Radiocarbon and stable carbon isotopic evidence for transport and transformation of dissolved organic carbon, dissolved inorganic carbon, and CH <sub>4</sub> in a northern Minnesota peatland. <i>Global Biogeochemical Cycles</i> , 2000, 14, 1095-1108.	4.9	187
18	Nutrient biogeochemistry in a Gulf of Mexico subterranean estuary and groundwater-derived fluxes to the coastal ocean. <i>Limnology and Oceanography</i> , 2008, 53, 705-718.	3.1	181

#	ARTICLE	IF	CITATIONS
19	Contrasting rates and diurnal patterns of methane emission from emergent aquatic macrophytes. <i>Aquatic Botany</i> , 1993, 46, 111-128.	1.6	174
20	The effect of gas transport on the isotope signature of methane in wetlands. <i>Organic Geochemistry</i> , 2005, 36, 753-768.	1.8	172
21	Methane production and bubble emissions from arctic lakes: Isotopic implications for source pathways and ages. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	170
22	Organic matter transformation in the peat column at Marcell Experimental Forest: Humification and vertical stratification. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 661-675.	3.0	170
23	Discovery of a novel methanogen prevalent in thawing permafrost. <i>Nature Communications</i> , 2014, 5, 3212.	12.8	170
24	Expert assessment of future vulnerability of the global peatland carbon sink. <i>Nature Climate Change</i> , 2021, 11, 70-77.	18.8	167
25	Surface deformations as indicators of deep ebullition fluxes in a large northern peatland. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	163
26	Stability of peatland carbon to rising temperatures. <i>Nature Communications</i> , 2016, 7, 13723.	12.8	162
27	Seasonal variation in methane oxidation in a landfill cover soil as determined by an in situ stable isotope technique. <i>Global Biogeochemical Cycles</i> , 2000, 14, 51-60.	4.9	161
28	Examination of coupling between primary and secondary production in a river-dominated estuary: Apalachicola Bay, Florida, U.S.A.. <i>Limnology and Oceanography</i> , 2002, 47, 683-697.	3.1	153
29	Methane emissions proportional to permafrost carbon thawed in Arctic lakes since the 1950s. <i>Nature Geoscience</i> , 2016, 9, 679-682.	12.9	150
30	Microbial Community Structure and Activity Linked to Contrasting Biogeochemical Gradients in Bog and Fen Environments of the Glacial Lake Agassiz Peatland. <i>Applied and Environmental Microbiology</i> , 2012, 78, 7023-7031.	3.1	149
31	Plankton and Dissolved Inorganic Carbon Isotopic Composition in a River-Dominated Estuary: Apalachicola Bay, Florida. <i>Estuaries and Coasts</i> , 1999, 22, 575.	1.7	145
32	Radiocarbon evidence for the importance of surface vegetation on fermentation and methanogenesis in contrasting types of boreal peatlands. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	142
33	The rate of permafrost carbon release under aerobic and anaerobic conditions and its potential effects on climate. <i>Global Change Biology</i> , 2012, 18, 515-527.	9.5	141
34	Tropical peatland carbon storage linked to global latitudinal trends in peat recalcitrance. <i>Nature Communications</i> , 2018, 9, 3640.	12.8	135
35	Methane emission from rice: Stable isotopes, diurnal variations, and CO <sub>2</sub> exchange. <i>Global Biogeochemical Cycles</i> , 1997, 11, 15-27.	4.9	133
36	Sedimentation Pulse in the NE Gulf of Mexico following the 2010 DWH Blowout. <i>PLoS ONE</i> , 2015, 10, e0132341.	2.5	126

#	ARTICLE	IF	CITATIONS
37	Use of a biologically active cover to reduce landfill methane emissions and enhance methane oxidation. <i>Waste Management</i> , 2007, 27, 1248-1258.	7.4	123
38	The rise and fall of methanotrophy following a deepwater oil-well blowout. <i>Nature Geoscience</i> , 2014, 7, 423-427.	12.9	121
39	Methane Concentration and Stable Isotope Distribution as Evidence of Rhizospheric Processes: Comparison of a Fen and Bog in the Glacial Lake Agassiz Peatland Complex. <i>Annals of Botany</i> , 2000, 86, 655-663.	2.9	114
40	Microbial Community Stratification Linked to Utilization of Carbohydrates and Phosphorus Limitation in a Boreal Peatland at Marcell Experimental Forest, Minnesota, USA. <i>Applied and Environmental Microbiology</i> , 2014, 80, 3518-3530.	3.1	114
41	Magnitude and variations of groundwater seepage along a Florida marine shoreline. <i>Biogeochemistry</i> , 1997, 38, 189-205.	3.5	113
42	Lateral gas transport in soil adjacent to an old landfill: factors governing emissions and methane oxidation. <i>Waste Management and Research</i> , 2001, 19, 595-612.	3.9	112
43	Comparative Oxidation and Net Emissions of Methane and Selected Non-Methane Organic Compounds in Landfill Cover Soils. <i>Environmental Science &amp; Technology</i> , 2003, 37, 5150-5158.	10.0	111
44	The influence of methane oxidation on the stable isotopic composition of methane emitted from Florida swamp forests. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 4377-4388.	3.9	106
45	Methane stable isotope distribution at a <i>Carex</i> dominated fen in north central Alberta. <i>Global Biogeochemical Cycles</i> , 1999, 13, 1063-1077.	4.9	106
46	Title is missing!. <i>Biogeochemistry</i> , 2000, 51, 259-281.	3.5	106
47	Methane Oxidation in Landfill Cover Soils, is a 10% Default Value Reasonable?. <i>Journal of Environmental Quality</i> , 2009, 38, 654-663.	2.0	106
48	Quantification of methane oxidation in the rhizosphere of emergent aquatic macrophytes: defining upper limits. <i>Biogeochemistry</i> , 1993, 23, 79-97.	3.5	104
49	Investigating dissolved organic matter decomposition in northern peatlands using complimentary analytical techniques. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 112, 116-129.	3.9	104
50	Links between archaeal community structure, vegetation type and methanogenic pathway in Alaskan peatlands. <i>FEMS Microbiology Ecology</i> , 2007, 60, 240-251.	2.7	102
51	Microbial Metabolic Potential for Carbon Degradation and Nutrient (Nitrogen and Phosphorus) Acquisition in an Ombrotrophic Peatland. <i>Applied and Environmental Microbiology</i> , 2014, 80, 3531-3540.	3.1	102
52	Methanotrophy across a natural permafrost thaw environment. <i>ISME Journal</i> , 2018, 12, 2544-2558.	9.8	102
53	Land or ocean?: Assessing the driving forces of submarine groundwater discharge at a coastal site in the Gulf of Mexico. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	96
54	Methane flux from <i>Peltandra virginica</i> : stable isotope tracing and chamber effects. <i>Global Biogeochemical Cycles</i> , 1992, 6, 15-31.	4.9	94

#	ARTICLE	IF	CITATIONS
55	Uncoupling of acetate degradation from methane formation in Alaskan wetlands: Connections to vegetation distribution. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	94
56	Methane transport mechanisms and isotopic fractionation in emergent macrophytes of an Alaskan tundra lake. <i>Journal of Geophysical Research</i> , 1992, 97, 16681-16688.	3.3	93
57	Methane emissions from the Orinoco River floodplain, Venezuela. <i>Biogeochemistry</i> , 2000, 51, 113-140.	3.5	93
58	A simple headspace equilibration method for measuring dissolved methane. <i>Limnology and Oceanography: Methods</i> , 2014, 12, 637-650.	2.0	93
59	Atmospheric emissions and attenuation of non-methane organic compounds in cover soils at a French landfill. <i>Waste Management</i> , 2008, 28, 1892-1908.	7.4	91
60	Estimating the groundwater contribution into Florida Bay via natural tracers, $^{222}\text{Rn}$ and $\text{CH}_4$ . <i>Limnology and Oceanography</i> , 2000, 45, 1546-1557.	3.1	90
61	Partitioning pathways of $\text{CO}_2$ production in peatlands with stable carbon isotopes. <i>Biogeochemistry</i> , 2013, 114, 327-340.	3.5	89
62	Biogeochemical cycling in an organic-rich coastal marine basin. 8. A sulfur isotopic budget balanced by differential diffusion across the sediment-water interface. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 1201-1208.	3.9	87
63	Methane Oxidation in Two Swedish Landfill Covers Measured with Carbon-13 to Carbon-12 Isotope Ratios. <i>Journal of Environmental Quality</i> , 2001, 30, 369-376.	2.0	86
64	Sustained deposition of contaminants from the <i>Deepwater Horizon</i> spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3332-40.	7.1	84
65	Carbon and hydrogen isotopic characterization of methane from wetlands and lakes of the Yukon-Kuskokwim delta, western Alaska. <i>Journal of Geophysical Research</i> , 1992, 97, 16689-16701.	3.3	82
66	Temporal variations in dissolved methane deep in the Lake Agassiz Peatlands, Minnesota. <i>Global Biogeochemical Cycles</i> , 1995, 9, 197-212.	4.9	81
67	Characterization of dissolved organic matter in northern peatland soil porewaters by ultra high resolution mass spectrometry. <i>Organic Geochemistry</i> , 2010, 41, 791-799.	1.8	80
68	Fate of Effluent-Borne Contaminants beneath Septic Tank Drainfields Overlying a Karst Aquifer. <i>Journal of Environmental Quality</i> , 2010, 39, 1181-1195.	2.0	79
69	Radiocarbon evidence that carbon from the Deepwater Horizon spill entered the planktonic food web of the Gulf of Mexico. <i>Environmental Research Letters</i> , 2012, 7, 045303.	5.2	79
70	Microbial network, phylogenetic diversity and community membership in the active layer across a permafrost thaw gradient. <i>Environmental Microbiology</i> , 2017, 19, 3201-3218.	3.8	79
71	The effect of clipping on methane emissions from <i>Carex</i> . <i>Biogeochemistry</i> , 1997, 39, 37-44.	3.5	78
72	Alpha- and Gammaproteobacterial Methanotrophs Codominate the Active Methane-Oxidizing Communities in an Acidic Boreal Peat Bog. <i>Applied and Environmental Microbiology</i> , 2016, 82, 2363-2371.	3.1	78

#	ARTICLE	IF	CITATIONS
73	Seasonal Greenhouse Gas Emissions (Methane, Carbon Dioxide, Nitrous Oxide) from Engineered Landfills: Daily, Intermediate, and Final California Cover Soils. <i>Journal of Environmental Quality</i> , 2011, 40, 1010-1020.	2.0	77
74	Elemental composition and optical properties reveal changes in dissolved organic matter along a permafrost thaw chronosequence in a subarctic peatland. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 187, 123-140.	3.9	77
75	Methane Oxidation in Swedish Landfills Quantified with the Stable Carbon Isotope Technique in Combination with an Optical Method for Emitted Methane. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6684-6690.	10.0	76
76	Massive peatland carbon banks vulnerable to rising temperatures. <i>Nature Communications</i> , 2020, 11, 2373.	12.8	76
77	Quantifying Methane Oxidation from Landfills Using Stable Isotope Analysis of Downwind Plumes. <i>Environmental Science &amp; Technology</i> , 1999, 33, 3755-3760.	10.0	73
78	Rapid Net Carbon Loss From a Whole Ecosystem Warmed Peatland. <i>AGU Advances</i> , 2020, 1, e2020AV000163.	5.4	69
79	The Effect of Groundwater Seepage on Nutrient Delivery and Seagrass Distribution in the Northeastern Gulf of Mexico. <i>Estuaries and Coasts</i> , 1999, 22, 1033.	1.7	67
80	Observations on the methane oxidation capacity of landfill soils. <i>Waste Management</i> , 2011, 31, 914-925.	7.4	65
81	Using the deuterium isotope composition of permafrost meltwater to constrain thermokarst lake contributions to atmospheric CH <sub>4</sub> during the last deglaciation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	64
82	Methane emissions from 20 landfills across the United States using vertical radial plume mapping. <i>Journal of the Air and Waste Management Association</i> , 2012, 62, 183-197.	1.9	61
83	Effect of CO <sub>2</sub> enrichment and elevated temperature on methane emissions from rice, <i>Oryza sativa</i> . <i>Global Change Biology</i> , 1999, 5, 587-599.	9.5	60
84	Isotope fractionation effects by diffusion and methane oxidation in landfill cover soils. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	59
85	Mitigation of methane emission from Fakse landfill using a biowindow system. <i>Waste Management</i> , 2011, 31, 1018-1028.	7.4	59
86	Hydrogenation of organic matter as a terminal electron sink sustains high CO <sub>2</sub> :CH <sub>4</sub> production ratios during anaerobic decomposition. <i>Organic Geochemistry</i> , 2017, 112, 22-32.	1.8	59
87	Microbial activity in surficial sediments overlying acoustic wipeout zones at a Gulf of Mexico cold seep. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	57
88	Methane transfer across the water-air interface in stagnant wooded swamps of Florida: Evaluation of mass-transfer coefficients and isotropic fractionation. <i>Limnology and Oceanography</i> , 1995, 40, 290-298.	3.1	56
89	Greenhouse carbon balance of wetlands: methane emission versus carbon sequestration. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 53, 521.	1.6	55
90	Evaluating the effect of environmental disturbance on the trophic structure of Florida Bay, U.S.A.: Multiple stable isotope analyses of contemporary and historical specimens. <i>Limnology and Oceanography</i> , 2005, 50, 1059-1072.	3.1	55

#	ARTICLE	IF	CITATIONS
91	Anaerobic diagenesis within Recent, Pleistocene, and Eocene marine carbonate frameworks. <i>Sedimentology</i> , 1990, 37, 997-1009.	3.1	54
92	Carbon and Hydrogen Isotopic Effects in Microbial, Methane from Terrestrial Environments. , 2005, , 85-105.		54
93	Effect of Temperature and Oxidation Rate on Carbon-isotope Fractionation during Methane Oxidation by Landfill Cover Materials. <i>Environmental Science &amp; Technology</i> , 2008, 42, 7818-7823.	10.0	54
94	A national landfill methane budget for Sweden based on field measurements, and an evaluation of IPCC models. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 61, 424.	1.6	54
95	Soil metabolome response to whole-ecosystem warming at the Spruce and Peatland Responses under Changing Environments experiment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	54
96	The Ephemeral Signature of Permafrost Carbon in an Arctic Fluvial Network. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1475-1485.	3.0	53
97	Minnesota peat viromes reveal terrestrial and aquatic niche partitioning for local and global viral populations. <i>Microbiome</i> , 2021, 9, 233.	11.1	53
98	Comparison of dialysis and solid-phase extraction for isolation and concentration of dissolved organic matter prior to Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 447-457.	3.7	52
99	Scaling methane oxidation: From laboratory incubation experiments to landfill cover field conditions. <i>Waste Management</i> , 2011, 31, 978-986.	7.4	51
100	Methanogens Are Major Contributors to Nitrogen Fixation in Soils of the Florida Everglades. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	51
101	Variation in methane production pathways associated with permafrost decomposition in collapse scar bogs of Alberta, Canada. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	4.9	48
102	Investigation of the methyl fluoride technique for determining rhizospheric methane oxidation. <i>Biogeochemistry</i> , 1997, 36, 153-172.	3.5	47
103	Methane Oxidation in Biofilters Measured by Mass-Balance and Stable Isotope Methods. <i>Environmental Science &amp; Technology</i> , 2007, 41, 620-625.	10.0	47
104	Winter precipitation and snow accumulation drive the methane sink or source strength of Arctic tussock tundra. <i>Global Change Biology</i> , 2016, 22, 2818-2833.	9.5	47
105	Effectiveness of a Florida Landfill Biocover for Reduction of CH <sub>4</sub> and NMHC Emissions. <i>Environmental Science &amp; Technology</i> , 2010, 44, 1197-1203.	10.0	46
106	Controls on methane released through ebullition in peatlands affected by permafrost degradation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 418-431.	3.0	46
107	Improved Field Methods to Quantify Methane Oxidation in Landfill Cover Materials Using Stable Carbon Isotopes. <i>Environmental Science &amp; Technology</i> , 2008, 42, 665-670.	10.0	45
108	Flux by fin: fish-mediated carbon and nutrient flux in the northeastern Gulf of Mexico. <i>Marine Biology</i> , 2012, 159, 365-372.	1.5	45



#	ARTICLE	IF	CITATIONS
109	Seepage rate variability in Florida Bay driven by Atlantic tidal height. <i>Biogeochemistry</i> , 2003, 66, 187-202.	3.5	43
110	Redefining the isotopic boundaries of biogenic methane: Methane from endoevaporites. <i>Icarus</i> , 2013, 224, 268-275.	2.5	43
111	Impact of Warming on Greenhouse Gas Production and Microbial Diversity in Anoxic Peat From a Sphagnum-Dominated Bog (Grand Rapids, Minnesota, United States). <i>Frontiers in Microbiology</i> , 2019, 10, 870.	3.5	43
112	Scales of seafloor sediment resuspension in the northern Gulf of Mexico. <i>Elementa</i> , 2018, 6, .	3.2	43
113	Diel variation in lacunal CH <sub>4</sub> and CO <sub>2</sub> concentration and $\delta^{13}C$ in <i>Phragmites australis</i> . <i>Biogeochemistry</i> , 2002, 59, 287-301.	3.5	41
114	CO <sub>2</sub> and CH <sub>4</sub> isotope compositions and production pathways in a tropical peatland. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1-18.	4.9	41
115	Vertical Stratification of Peat Pore Water Dissolved Organic Matter Composition in a Peat Bog in Northern Minnesota. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2018, 123, 479-494.	3.0	41
116	Carbon isotopic discrimination and control of nighttime canopy $\delta^{18}O$ -CO <sub>2</sub> in a pine forest in the southeastern United States. <i>Global Biogeochemical Cycles</i> , 2002, 16, 8-1-8-13.	4.9	39
117	Use of Keeling plots to determine sources of dissolved organic carbon in nearshore and open ocean systems. <i>Limnology and Oceanography</i> , 2004, 49, 102-108.	3.1	39
118	Influence of acidification on the optical properties and molecular composition of dissolved organic matter. <i>Analytica Chimica Acta</i> , 2011, 706, 261-267.	5.4	39
119	Measuring Temporal Variability in Pore-Fluid Chemistry To Assess Gas Hydrate Stability: Development of a Continuous Pore-Fluid Array. <i>Environmental Science &amp; Technology</i> , 2008, 42, 7368-7373.	10.0	36
120	Fossil Carbon in Particulate Organic Matter in the Gulf of Mexico following the Deepwater Horizon Event. <i>Environmental Science and Technology Letters</i> , 2014, 1, 108-112.	8.7	36
121	Determination of gas recovery efficiency at two Danish landfills by performing downwind methane measurements and stable carbon isotopic analysis. <i>Waste Management</i> , 2018, 73, 220-229.	7.4	36
122	Assessing the Potential for Mobilization of Old Soil Carbon After Permafrost Thaw: A Synthesis of <sup>14</sup> C Measurements From the Northern Permafrost Region. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006672.	4.9	36
123	Nutrient transformations between rainfall and stormwater runoff in an urbanized coastal environment: Sarasota Bay, Florida. <i>Limnology and Oceanography</i> , 2005, 50, 62-69.	3.1	35
124	Controls on the hydrogen isotopic composition of biogenic methane from high-latitude terrestrial wetlands. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	35
125	Major Ion Chemistry in a Freshwater Coastal Lagoon from Southern Brazil (Mangueira Lagoon): Influence of Groundwater Inputs. <i>Aquatic Geochemistry</i> , 2008, 14, 133-146.	1.3	34
126	Patterns of stable carbon isotope turnover in gag, <i>Mycteroperca microlepis</i> , an economically important marine piscivore determined with a non-lethal surgical biopsy procedure. <i>Environmental Biology of Fishes</i> , 2011, 90, 243-252.	1.0	34



#	ARTICLE	IF	CITATIONS
127	The relative importance of methanogenesis in the decomposition of organic matter in northern peatlands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 280-293.	3.0	34
128	Landfill Methane Oxidation Across Climate Types in the U.S.. <i>Environmental Science &amp; Technology</i> , 2011, 45, 313-319.	10.0	33
129	Surface production fuels deep heterotrophic respiration in northern peatlands. <i>Global Biogeochemical Cycles</i> , 2013, 27, 1163-1174.	4.9	33
130	The science behind marine-oil snow and MOSSFA: Past, present, and future. <i>Progress in Oceanography</i> , 2020, 187, 102398.	3.2	33
131	Utilization of <i>PARAFAC</i> Modeled Excitation-Emission Matrix ( <i>EEM</i> ) Fluorescence Spectroscopy to Identify Biogeochemical Processing of Dissolved Organic Matter in a Northern Peatland. <i>Photochemistry and Photobiology</i> , 2015, 91, 684-695.	2.5	32
132	Greenhouse gas balance over thaw-freeze cycles in discontinuous zone permafrost. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 387-404.	3.0	32
133	Factors Controlling Seasonal Nutrient Profiles in a Subtropical Peatland of the Florida Everglades. <i>Journal of Environmental Quality</i> , 1994, 23, 526-533.	2.0	32
134	Using Respiration Rates and Stable Carbon Isotopes to Monitor the Biodegradation of Orimulsion by Marine Benthic Bacteria. <i>Environmental Science &amp; Technology</i> , 1999, 33, 2035-2039.	10.0	30
135	Comparison of sulfur hexafluoride, fluorescein and rhodamine dyes and the bacteriophage PRD-1 in tracing subsurface flow. <i>Journal of Hydrology</i> , 2003, 277, 100-115.	5.4	30
136	Combining Organic Matter Source and Relative Trophic Position Determinations to Explore Trophic Structure. <i>Estuaries and Coasts</i> , 2009, 32, 999-1010.	2.2	30
137	Land-use controls on carbon biogeochemistry in lowland streams of the Congo Basin. <i>Global Change Biology</i> , 2020, 26, 1374-1389.	9.5	30
138	Amazon Capims (floating grassmats): A source of <sup>13</sup> C enriched methane to the troposphere. <i>Geophysical Research Letters</i> , 1989, 16, 799-802.	4.0	29
139	Field measurements of internal pressurization in <i>Phragmites australis</i> (Poaceae) and implications for regulation of methane emissions in a midlatitude prairie wetland. <i>American Journal of Botany</i> , 2001, 88, 653-658.	1.7	29
140	Controls on Soil Organic Matter Degradation and Subsequent Greenhouse Gas Emissions Across a Permafrost Thaw Gradient in Northern Sweden. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	29
141	Reporting central tendencies of chamber measured surface emission and oxidation. <i>Waste Management</i> , 2011, 31, 1002-1008.	7.4	26
142	Distribution, Activities, and Interactions of Methanogens and Sulfate-Reducing Prokaryotes in the Florida Everglades. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7431-7442.	3.1	25
143	Soil incubations reproduce field methane dynamics in a subarctic wetland. <i>Biogeochemistry</i> , 2015, 126, 241-249.	3.5	24
144	Hydrocarbon composition and concentrations in the Gulf of Mexico sediments in the 3 years following the Macondo well blowout. <i>Environmental Pollution</i> , 2017, 229, 329-338.	7.5	23

#	ARTICLE	IF	CITATIONS
145	Nitrogen Stable Isotopes of Macrophytes Assess Stormwater Nitrogen Inputs to an Urbanized Estuary. <i>Estuaries and Coasts</i> , 2008, 31, 360-370.	2.2	22
146	Groundwater flow and phosphate dynamics surrounding a high discharge wastewater disposal well in the Florida Keys. <i>Journal of Hydrology</i> , 2003, 284, 193-210.	5.4	21
147	Comparison of Field Measurements to Methane Emissions Models at a New Landfill. <i>Environmental Science &amp; Technology</i> , 2016, 50, 9432-9441.	10.0	21
148	Does dissolved organic matter or solid peat fuel anaerobic respiration in peatlands?. <i>Geoderma</i> , 2019, 349, 79-87.	5.1	21
149	Decadal-scale hotspot methane ebullition within lakes following abrupt permafrost thaw. <i>Environmental Research Letters</i> , 2021, 16, 035010.	5.2	21
150	An Unusual Inverted Saline Microbial Mat Community in an Interdune Sabkha in the Rub' al Khali (the Tj ETQqO O 0,rgBT /Overlock 10 T	2.5	21
151	Climatic drivers for multidecadal shifts in solute transport and methane production zones within a large peat basin. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1578-1598.	4.9	20
152	Tracing the incorporation of carbon into benthic foraminiferal calcite following the Deepwater Horizon event. <i>Environmental Pollution</i> , 2018, 237, 424-429.	7.5	20
153	Evaluation of onsite sewage treatment and disposal systems in shallow karst terrain. <i>Water Research</i> , 2008, 42, 2585-2597.	11.3	19
154	Fresh Water Inflow and Oyster Productivity in Apalachicola Bay, FL (USA). <i>Estuaries and Coasts</i> , 2011, 34, 993-1005.	2.2	19
155	Tracing the intrusion of fossil carbon into coastal Louisiana macrofauna using natural $^{14}\text{C}$ and $^{13}\text{C}$ abundances. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 129, 89-95.	1.4	19
156	An evaluation of lipid extraction techniques for interpretation of carbon and nitrogen isotope values in bottlenose dolphin ( <i>Tursiops truncatus</i> ) skin tissue. <i>Marine Mammal Science</i> , 2014, 30, 85-103.	1.8	18
157	Subsurface methane sources and migration pathways within a gas hydrate mound system, Gulf of Mexico. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 89-107.	2.5	18
158	Deep Water Horizon oil and methane carbon entered the food web in the Gulf of Mexico. <i>Limnology and Oceanography</i> , 2016, 61, S387.	3.1	18
159	Adding stable carbon isotopes improves model representation of the role of microbial communities in peatland methane cycling. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 1412-1430.	3.8	18
160	Linear decline in red snapper ( <i>Lutjanus campechanus</i> ) otolith $^{14}\text{C}$ extends the utility of the bomb radiocarbon chronometer for fish age validation in the Northern Gulf of Mexico. <i>ICES Journal of Marine Science</i> , 2018, 75, 1664-1671.	2.5	18
161	Isotopic composition of sinking particles: Oil effects, recovery and baselines in the Gulf of Mexico, 2010-2015. <i>Elementa</i> , 2018, 6, .	3.2	18
162	Influence of $^{13}\text{C}$ -enriched foliage respired $\text{CO}_2$ on $^{13}\text{C}$ of ecosystem-respired $\text{CO}_2$ . <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	4.9	17

#	ARTICLE	IF	CITATIONS
163	Concentration-dependent Stable Isotope Analysis of Consumers in the Upper Reaches of a Freshwater-dominated Estuary: Apalachicola Bay, FL, USA. <i>Estuaries and Coasts</i> , 2010, 33, 1406-1419.	2.2	17
164	Effect of nutrient enrichment on $\delta^{13}\text{C}$ and the methane production pathway in the Florida Everglades. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1267-1280.	3.0	17
165	Performance of green waste biocovers for enhancing methane oxidation. <i>Waste Management</i> , 2015, 39, 205-215.	7.4	17
166	Bimodal Transport of a Waste Water Plume Injected into Saline Ground Water of the Florida Keys. <i>Ground Water</i> , 2000, 38, 624-634.	1.3	16
167	Recycling of Organic Matter in the Sediments of Santa Monica Basin, California Borderland. <i>Aquatic Geochemistry</i> , 2016, 22, 593-618.	1.3	16
168	Limited Presence of Permafrost Dissolved Organic Matter in the Kolyma River, Siberia Revealed by Ramped Oxidation. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005977.	3.0	16
169	Employing extant stable carbon isotope data in Gulf of Mexico sedimentary organic matter for oil spill studies. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 129, 249-258.	1.4	15
170	Plant organic matter inputs exert a strong control on soil organic matter decomposition in a thawing permafrost peatland. <i>Science of the Total Environment</i> , 2022, 820, 152757.	8.0	15
171	Isotopic variation ( $\delta^{15}\text{N}$ , $\delta^{13}\text{C}$ , and $\delta^{34}\text{S}$ ) with body size in post-larval estuarine consumers. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 83, 307-312.	2.1	14
172	Rates and pathways of methanogenesis in hypersaline environments as determined by $^{13}\text{C}$ -labeling. <i>Biogeochemistry</i> , 2015, 126, 329-341.	3.5	14
173	Life history of northern Gulf of Mexico Warsaw grouper <i>Hyporthodus nigrurus</i> inferred from otolith radiocarbon analysis. <i>PLoS ONE</i> , 2020, 15, e0228254.	2.5	14
174	Functional capacities of microbial communities to carry out large scale geochemical processes are maintained during ex situ anaerobic incubation. <i>PLoS ONE</i> , 2021, 16, e0245857.	2.5	11
175	An Integrative Model for Soil Biogeochemistry and Methane Processes: I. Model Structure and Sensitivity Analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2019JG005468.	3.0	11
176	Latitude, Elevation, and Mean Annual Temperature Predict Peat Organic Matter Chemistry at a Global Scale. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	11
177	Improved global wetland carbon isotopic signatures support post-2006 microbial methane emission increase. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	11
178	Assessing methods to estimate emissions of non-methane organic compounds from landfills. <i>Waste Management</i> , 2014, 34, 2260-2270.	7.4	10
179	Trophic Relationships and Niche Partitioning of Red Drum <i>Sciaenops ocellatus</i> and Common Snook <i>Centropomus undecimalis</i> in Coastal Estuaries of South Florida. <i>Estuaries and Coasts</i> , 2019, 42, 842-856.	2.2	10
180	Microbial Community Analyses Inform Geochemical Reaction Network Models for Predicting Pathways of Greenhouse Gas Production. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	9

#	ARTICLE	IF	CITATIONS
181	Characterization of methane flux from photosynthetic oxidation ponds in a wastewater treatment plant. <i>Water Science and Technology</i> , 2014, 70, 980-989.	2.5	8
182	Plant-mediated transport and isotopic composition of methane from shallow tropical wetlands. <i>Inland Waters</i> , 2014, 4, 369-376.	2.2	8
183	Petrocarbon evolution: Ramped pyrolysis/oxidation and isotopic studies of contaminated oil sediments from the Deepwater Horizon oil spill in the Gulf of Mexico. <i>PLoS ONE</i> , 2019, 14, e0212433.	2.5	8
184	Characterization of Bacterial and Fungal Communities Reveals Novel Consortia in Tropical Oligotrophic Peatlands. <i>Microbial Ecology</i> , 2021, 82, 188-201.	2.8	8
185	Coupling plant litter quantity to a novel metric for litter quality explains C storage changes in a thawing permafrost peatland. <i>Global Change Biology</i> , 2021, , .	9.5	8
186	Permafrost thaw driven changes in hydrology and vegetation cover increase trace gas emissions and climate forcing in Stordalen Mire from 1970 to 2014. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210022.	3.4	8
187	Methane Accumulation and Release from Deep Peat: Measurements, Conceptual Models, and Biogeochemical Significance. <i>Geophysical Monograph Series</i> , 0, , 145-158.	0.1	7
188	The southern Gulf of Mexico: A baseline radiocarbon isoscape of surface sediments and isotopic excursions at depth. <i>PLoS ONE</i> , 2020, 15, e0231678.	2.5	7
189	Sources of carbon to suspended particulate organic matter in the northern Gulf of Mexico. <i>Elementa</i> , 2019, 7, .	3.2	7
190	Radiocarbon Analyses Quantify Peat Carbon Losses With Increasing Temperature in a Whole Ecosystem Warming Experiment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2021JG006511.	3.0	7
191	Methane production controls in a young thermokarst lake formed by abrupt permafrost thaw. <i>Global Change Biology</i> , 2022, 28, 3206-3221.	9.5	7
192	Developing a Design Approach to Reduce Methane Emissions from California Landfills. , 2010, , .		6
193	Stable isotopic determination of methane oxidation: When smaller scales are better. <i>Waste Management</i> , 2019, 97, 82-87.	7.4	6
194	Controls on the Variation of Methylmercury Concentration in Seagrass Bed Consumer Organisms of the Big Bend, Florida, USA. <i>Estuaries and Coasts</i> , 2018, 41, 1486-1495.	2.2	5
195	The IsoGenie database: an interdisciplinary data management solution for ecosystems biology and environmental research. <i>PeerJ</i> , 0, 8, e9467.	2.0	5
196	Carbon Accumulation, Flux, and Fate in Stordalen Mire, a Permafrost Peatland in Transition. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	5
197	Compositional stability of peat in ecosystem-scale warming mesocosms. <i>PLoS ONE</i> , 2022, 17, e0263994.	2.5	5
198	Evaluating alternative ebullition models for predicting peatland methane emission and its pathways via dataâ€“model fusion. <i>Biogeosciences</i> , 2022, 19, 2245-2262.	3.3	5

#	ARTICLE	IF	CITATIONS
199	A Rapid Response Study of the Hercules Gas Well Blowout. <i>Eos</i> , 2014, 95, 341-342.	0.1	4
200	The Effect of Bacterial Sulfate Reduction Inhibition on the Production and Stable Isotopic Composition of Methane in Hypersaline Environments. <i>Aquatic Geochemistry</i> , 2019, 25, 237-251.	1.3	4
201	Molecular Markers of Biogenic and Oil-Derived Hydrocarbons in Deep-Sea Sediments Following the Deepwater Horizon Spill. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	4
202	Cutover Peat Limits Methane Production Causing Low Emission at a Restored Peatland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, .	3.0	4
203	The Sedimentary Record of MOSSFA Events in the Gulf of Mexico: A Comparison of the Deepwater Horizon (2010) and Ixtoc 1 (1979) Oil Spills. , 2020, , 221-234.		3
204	Long-Term Preservation of Oil Spill Events in Sediments: The Case for the Deepwater Horizon Oil Spill in the Northern Gulf of Mexico. , 2020, , 285-300.		2
205	Mapping spatial and temporal variation of seafloor organic matter $\delta^{14}C$ and $\delta^{13}C$ in the Northern Gulf of Mexico following the Deepwater Horizon Oil Spill. <i>Marine Pollution Bulletin</i> , 2021, 164, 112076.	5.0	2
206	Methane Oxidation in Landfill Cover Soils. , 2010, , .		1
207	Variability in the carbon isotopic composition of foliage carbon pools (soluble carbohydrates, waxes) and respiration fluxes in southeastern U.S. pine forests. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	1
208	INFLUENCES OF UPPER FLORIDAN AQUIFER WATERS ON RADIOCARBON IN THE OTOLITHS OF GRAY SNAPPER ( <i>Lutjanus griseus</i> ) IN THE GULF OF MEXICO. <i>Radiocarbon</i> , 2020, 62, 1127-1146.	1.8	1
209	Quantifying the inhibitory impact of soluble phenolics on anaerobic carbon mineralization in a thawing permafrost peatland. <i>PLoS ONE</i> , 2022, 17, e0252743.	2.5	1
210	Use of a Laser-Based Open Path Instrument to Provide Continuous Long-Term Measurements of Methane Emissions from Two Landfills. , 2016, , .		0