Jeffrey P Chanton

List of Publications by Year
in descending order

180	11,226	19657 61	37204 96
papers	citations	h-index	g-index

184	184	184	9434
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Host-linked soil viral ecology along a permafrost thaw gradient. Nature Microbiology, 2018, 3, 870-880.	13.3	372
2	Genome-centric view of carbon processing in thawing permafrost. Nature, 2018, 560, 49-54.	27.8	337
3	Estimating groundwater discharge into the northeastern Gulf of Mexico using radon-222. Earth and Planetary Science Letters, 1996, 144, 591-604.	4.4	335
4	Methane dynamics regulated by microbial community response to permafrost thaw. Nature, 2014, 514, 478-481.	27.8	321
5	Gas transport from methaneâ€saturated, tidal freshwater and wetland sediments. Limnology and Oceanography, 1989, 34, 807-819.	3.1	278
6	Changes in peat chemistry associated with permafrost thaw increase greenhouse gas production. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5819-5824.	7.1	268
7	Radiocarbon evidence for the substrates supporting methane formation within northern Minnesota peatlands. Geochimica Et Cosmochimica Acta, 1995, 59, 3663-3668.	3.9	250
8	Plantâ€dependent CH₄ emission in a subarctic Canadian fen. Global Biogeochemical Cycles, 1992, 6, 225-231.	4.9	245
9	Greenhouse carbon balance of wetlands: methane emission versus carbon sequestration. Tellus, Series B: Chemical and Physical Meteorology, 2001, 53, 521-528.	1.6	215
10	Indicators of Methane-Derived Carbonates and Chemosynthetic Organic Carbon Deposits: Examples from the Florida Escarpment. Palaios, 1992, 7, 361.	1.3	206
11	Contrasting rates and diurnal patterns of methane emission from emergent aquatic macrophytes. Aquatic Botany, 1993, 46, 111-128.	1.6	174
12	The effect of gas transport on the isotope signature of methane in wetlands. Organic Geochemistry, 2005, 36, 753-768.	1.8	172
13	Organic matter transformation in the peat column at Marcell Experimental Forest: Humification and vertical stratification. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 661-675.	3.0	170
14	Application of 222 Rn and CH4 for assessment of groundwater discharge to the coastal ocean. Limnology and Oceanography, 1996, 41, 1347-1353.	3.1	153
15	Methane emissions proportional to permafrost carbon thawed in Arctic lakes since the 1950s. Nature Geoscience, 2016, 9, 679-682.	12.9	150
16	Plankton and Dissolved Inorganic Carbon Isotopic Composition in a River-Dominated Estuary: Apalachicola Bay, Florida. Estuaries and Coasts, 1999, 22, 575.	1.7	145
17	The rate of permafrost carbon release under aerobic and anaerobic conditions and its potential effects on climate. Global Change Biology, 2012, 18, 515-527.	9.5	141
18	Tropical peatland carbon storage linked to global latitudinal trends in peat recalcitrance. Nature Communications, 2018, 9, 3640.	12.8	135

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19	Effects of Vegetation on Methane Flux, Reservoirs, and Carbon Isotopic Composition. , 1991, , 65-92.		130
20	Biogeochemical cycling in an organic-rich coastal marine basin. 7. Sulfur mass balance, oxygen uptake and sulfide retention. Geochimica Et Cosmochimica Acta, 1987, 51, 1187-1199.	3.9	128
21	Control of the diurnal pattern of methane emission from emergent aquatic macrophytes by gas transport mechanisms. Aquatic Botany, 1996, 54, 237-253.	1.6	124
22	Lead-210 sediment geochronology in a changing coastal environment. Geochimica Et Cosmochimica Acta, 1983, 47, 1791-1804.	3.9	118
23	The importance of groundwater discharge to the methane budgets of nearshore and continental shelf waters of the northeastern Gulf of Mexico. Geochimica Et Cosmochimica Acta, 1996, 60, 4735-4746.	3.9	118
24	Spatial Structure and Activity of Sedimentary Microbial Communities Underlying a Beggiatoa spp. Mat in a Gulf of Mexico Hydrocarbon Seep. PLoS ONE, 2010, 5, e8738.	2.5	117
25	Microbial Community Stratification Linked to Utilization of Carbohydrates and Phosphorus Limitation in a Boreal Peatland at Marcell Experimental Forest, Minnesota, USA. Applied and Environmental Microbiology, 2014, 80, 3518-3530.	3.1	114
26	Magnitude and variations of groundwater seepage along a Florida marine shoreline. Biogeochemistry, 1997, 38, 189-205.	3.5	113
27	Relationships between CH₄ emission, biomass, and CO₂ exchange in a subtropical grassland. Journal of Geophysical Research, 1991, 96, 13067-13071.	3.3	109
28	The influence of methane oxidation on the stable isotopic composition of methane emitted from Florida swamp forests. Geochimica Et Cosmochimica Acta, 1994, 58, 4377-4388.	3.9	106
29	Methane stable isotope distribution at aCarexdominated fen in north central Alberta. Global Biogeochemical Cycles, 1999, 13, 1063-1077.	4.9	106
30	Title is missing!. Biogeochemistry, 2000, 51, 259-281.	3.5	106
31	Methane Oxidation in Landfill Cover Soils, is a 10% Default Value Reasonable?. Journal of Environmental Quality, 2009, 38, 654-663.	2.0	106
32	Seasonal variations in ebullitive flux and carbon isotopic composition of methane in a tidal freshwater estuary. Global Biogeochemical Cycles, 1988, 2, 289-298.	4.9	104
33	Investigating dissolved organic matter decomposition in northern peatlands using complimentary analytical techniques. Geochimica Et Cosmochimica Acta, 2013, 112, 116-129.	3.9	104
34	Links between archaeal community structure, vegetation type and methanogenic pathway in Alaskan peatlands. FEMS Microbiology Ecology, 2007, 60, 240-251.	2.7	102
35	Microbial Metabolic Potential for Carbon Degradation and Nutrient (Nitrogen and Phosphorus) Acquisition in an Ombrotrophic Peatland. Applied and Environmental Microbiology, 2014, 80, 3531-3540.	3.1	102
36	Methanotrophy across a natural permafrost thaw environment. ISME Journal, 2018, 12, 2544-2558.	9.8	102

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37	The Gulf of Mexico ecosystem, six years after the Macondo oil well blowout. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 129, 4-19.	1.4	99
38	A mass balance of 13C and 12C in an organic-rich methane-producing marine sediment. Geochimica Et Cosmochimica Acta, 1996, 60, 3835-3848.	3.9	98
39	Tracking Anthropogenic Inputs Using Caffeine, Indicator Bacteria, and Nutrients in Rural Freshwater and Urban Marine Systems. Environmental Science & Technology, 2006, 40, 7616-7622.	10.0	98
40	Methane flux from Peltandra virginica: stable isotope tracing and chamber effects. Global Biogeochemical Cycles, 1992, 6, 15-31.	4.9	94
41	Uncoupling of acetate degradation from methane formation in Alaskan wetlands: Connections to vegetation distribution. Global Biogeochemical Cycles, 2008, 22, .	4.9	94
42	Methane transport mechanisms and isotopic fractionation in emergent macrophytes of an Alaskan tundra lake. Journal of Geophysical Research, 1992, 97, 16681-16688.	3.3	93
43	Methane emissions from the Orinoco River floodplain, Venezuela. Biogeochemistry, 2000, 51, 113-140.	3.5	93
44	A simple headspace equilibration method for measuring dissolved methane. Limnology and Oceanography: Methods, 2014, 12, 637-650.	2.0	93
45	Application of radon-222 to investigate groundwater discharge into small shallow lakes. Journal of Hydrology, 2013, 486, 112-122.	5.4	90
46	Partitioning pathways of CO2 production in peatlands with stable carbon isotopes. Biogeochemistry, 2013, 114, 327-340.	3.5	89
47	Biogeochemical cycling in an organic-rich coastal marine basin. 8. A sulfur isotopic budget balanced by differential diffusion across the sediment-water interface. Geochimica Et Cosmochimica Acta, 1987, 51, 1201-1208.	3.9	87
48	Rhizospheric methane oxidation determined via the methyl fluoride inhibition technique. Journal of Geophysical Research, 1993, 98, 18413-18422.	3.3	86
49	Sustained deposition of contaminants from the Deepwater Horizon spill. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3332-40.	7.1	84
50	Carbon and hydrogen isotopic characterization of methane from wetlands and lakes of the Yukonâ€Kuskokwim delta, western Alaska. Journal of Geophysical Research, 1992, 97, 16689-16701.	3.3	82
51	Temporal variability in 13C of respired CO2 in a pine and a hardwood forest subject to similar climatic conditions. Oecologia, 2005, 142, 57-69.	2.0	82
52	Temporal variations in dissolved methane deep in the Lake Agassiz Peatlands, Minnesota. Global Biogeochemical Cycles, 1995, 9, 197-212.	4.9	81
53	Characterization of dissolved organic matter in northern peatland soil porewaters by ultra high resolution mass spectrometry. Organic Geochemistry, 2010, 41, 791-799.	1.8	80
54	Fate of Effluentâ€Borne Contaminants beneath Septic Tank Drainfields Overlying a Karst Aquifer. Journal of Environmental Quality, 2010, 39, 1181-1195.	2.0	79

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55	Alpha- and Gammaproteobacterial Methanotrophs Codominate the Active Methane-Oxidizing Communities in an Acidic Boreal Peat Bog. Applied and Environmental Microbiology, 2016, 82, 2363-2371.	3.1	78
56	Seasonal Greenhouse Gas Emissions (Methane, Carbon Dioxide, Nitrous Oxide) from Engineered Landfills: Daily, Intermediate, and Final California Cover Soils. Journal of Environmental Quality, 2011, 40, 1010-1020.	2.0	77
57	Elemental composition and optical properties reveal changes in dissolved organic matter along a permafrost thaw chronosequence in a subarctic peatland. Geochimica Et Cosmochimica Acta, 2016, 187, 123-140.	3.9	77
58	Stable isotopes as tracers of methane dynamics in Everglades marshes with and without active populations of methane oxidizing bacteria. Journal of Geophysical Research, 1993, 98, 14771-14782.	3.3	75
59	Organic matter cycling across the sulfate-methane transition zone of the Santa Barbara Basin, California Borderland. Geochimica Et Cosmochimica Acta, 2016, 176, 259-278.	3.9	74
60	Rapid Net Carbon Loss From a Wholeâ€Ecosystem Warmed Peatland. AGU Advances, 2020, 1, e2020AV000163.	5.4	69
61	Methane stable isotopic distributions as indicators of gas transport mechanisms in emergent aquatic plants. Aquatic Botany, 1996, 54, 227-236.	1.6	67
62	The Effect of Groundwater Seepage on Nutrient Delivery and Seagrass Distribution in the Northeastern Gulf of Mexico. Estuaries and Coasts, 1999, 22, 1033.	1.7	67
63	Uranium and barium cycling in a salt wedge subterranean estuary: The influence of tidal pumping. Chemical Geology, 2011, 287, 114-123.	3.3	64
64	The effects of heat and stannous chloride addition on the active distillation of acid volatile sulfide from pyrite-rich marine sediment samples. Biogeochemistry, 1985, 1, 375-382.	3.5	61
65	Microbial activity in surficial sediments overlying acoustic wipeout zones at a Gulf of Mexico cold seep. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	57
66	Methane transfer across the water-air interface in stagnant wooded swamps of Florida: Evaluation of mass-transfer coefficients and isotropic fractionation. Limnology and Oceanography, 1995, 40, 290-298.	3.1	56
67	Greenhouse carbon balance of wetlands: methane emission versus carbon sequestration. Tellus, Series B: Chemical and Physical Meteorology, 2022, 53, 521.	1.6	55
68	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. Limnology and Oceanography, 2005, 50, 1059-1072.	3.1	55
69	Anaerobic diagenesis within Recent, Pleistocene, and Eocene marine carbonate frameworks. Sedimentology, 1990, 37, 997-1009.	3.1	54
70	Effect of Temperature and Oxidation Rate on Carbon-isotope Fractionation during Methane Oxidation by Landfill Cover Materials. Environmental Science & Technology, 2008, 42, 7818-7823.	10.0	54
71	Soil metabolome response to whole-ecosystem warming at the Spruce and Peatland Responses under Changing Environments experiment. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	54
72	Minnesota peat viromes reveal terrestrial and aquatic niche partitioning for local and global viral populations. Microbiome, 2021, 9, 233.	11.1	53

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73	Comparison of dialysis and solid-phase extraction for isolation and concentration of dissolved organic matter prior to Fourier transform ion cyclotron resonance mass spectrometry. Analytical and Bioanalytical Chemistry, 2012, 404, 447-457.	3.7	52
74	Methanogens Are Major Contributors to Nitrogen Fixation in Soils of the Florida Everglades. Applied and Environmental Microbiology, 2018, 84, .	3.1	51
75	Biogenic methane from abyssal brine seeps at the base of the Florida escarpment. Geology, 1991, 19, 851.	4.4	50
76	Carbon remineralization in a north Florida swamp forest: Effects of water level on the pathways and rates of soil organic matter decomposition. Global Biogeochemical Cycles, 1993, 7, 475-490.	4.9	48
77	Factors influencing the stable carbon isotopic signature of methane from combustion and biomass burning. Journal of Geophysical Research, 2000, 105, 1867-1877.	3.3	48
78	Variation in methane production pathways associated with permafrost decomposition in collapse scar bogs of Alberta, Canada. Global Biogeochemical Cycles, 2007, 21, .	4.9	48
79	Investigation of the methyl fluoride technique for determining rhizospheric methane oxidation. Biogeochemistry, 1997, 36, 153-172.	3.5	47
80	Substrate Limitation for Methanogenesis in Hypersaline Environments. Astrobiology, 2012, 12, 89-97.	3.0	47
81	Winter precipitation and snow accumulation drive the methane sink or source strength of Arctic tussock tundra. Global Change Biology, 2016, 22, 2818-2833.	9.5	47
82	Carbon isotopic composition of methane in Florida Everglades soils and fractionation during its transport to the troposphere. Global Biogeochemical Cycles, 1988, 2, 245-252.	4.9	46
83	Effectiveness of a Florida Landfill Biocover for Reduction of CH₄ and NMHC Emissions. Environmental Science & Technology, 2010, 44, 1197-1203.	10.0	46
84	Controls on methane released through ebullition in peatlands affected by permafrost degradation. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 418-431.	3.0	46
85	Diurnal variation of the delta13C of pine needle respired CO2 evolved in darkness. Plant, Cell and Environment, 2006, 29, 202-211.	5.7	45
86	Seepage rate variability in Florida Bay driven by Atlantic tidal height. Biogeochemistry, 2003, 66, 187-202.	3.5	43
87	Redefining the isotopic boundaries of biogenic methane: Methane from endoevaporites. Icarus, 2013, 224, 268-275.	2.5	43
88	Impact of Warming on Greenhouse Gas Production and Microbial Diversity in Anoxic Peat From a Sphagnum-Dominated Bog (Grand Rapids, Minnesota, United States). Frontiers in Microbiology, 2019, 10, 870.	3.5	43
89	Scales of seafloor sediment resuspension in the northern Gulf of Mexico. Elementa, 2018, 6, .	3.2	43
90	Diel variation in lacunal CH4 and CO2 concentration and Î´13C in Phragmites australis. Biogeochemistry, 2002, 59, 287-301.	3.5	41

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91	CO₂ and CH₄ isotope compositions and production pathways in a tropical peatland. Global Biogeochemical Cycles, 2015, 29, 1-18.	4.9	41
92	Vertical Stratification of Peat Pore Water Dissolved Organic Matter Composition in a Peat Bog in Northern Minnesota. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 479-494.	3.0	41
93	Carbon isotopic discrimination and control of nighttime canopy Î´18O-CO2in a pine forest in the southeastern United States. Global Biogeochemical Cycles, 2002, 16, 8-1-8-13.	4.9	39
94	Influence of acidification on the optical properties and molecular composition of dissolved organic matter. Analytica Chimica Acta, 2011, 706, 261-267.	5.4	39
95	Measuring Temporal Variability in Pore-Fluid Chemistry To Assess Gas Hydrate Stability: Development of a Continuous Pore-Fluid Array. Environmental Science & Technology, 2008, 42, 7368-7373.	10.0	36
96	Assessing the Potential for Mobilization of Old Soil Carbon After Permafrost Thaw: A Synthesis of ¹⁴C Measurements From the Northern Permafrost Region. Global Biogeochemical Cycles, 2020, 34, e2020GB006672.	4.9	36
97	Nutrient transformations between rainfall and stormwater runoff in an urbanized coastal environment: Sarasota Bay, Florida. Limnology and Oceanography, 2005, 50, 62-69.	3.1	35
98	Controls on the hydrogen isotopic composition of biogenic methane from high-latitude terrestrial wetlands. Journal of Geophysical Research, 2006, 111, .	3.3	35
99	Methane under-saturated fluids in deep-sea sediments: Implications for gas hydrate stability and rates of dissolution. Earth and Planetary Science Letters, 2010, 298, 275-285.	4.4	35
100	Measurement of carbon storage in landfills from the biogenic carbon content of excavated waste samples. Waste Management, 2013, 33, 2001-2005.	7.4	34
101	The relative importance of methanogenesis in the decomposition of organic matter in northern peatlands. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 280-293.	3.0	34
102	Control of pore-water chemistry at the base of the Florida escarpment by processes within the platform. Nature, 1991, 349, 229-231.	27.8	33
103	Isotopic evidence for methane-based chemosynthesis in the Upper Floridan aquifer food web. Oecologia, 2006, 150, 89-96.	2.0	33
104	Surface production fuels deep heterotrophic respiration in northern peatlands. Global Biogeochemical Cycles, 2013, 27, 1163-1174.	4.9	33
105	Characteristics and Evolution of sill-driven off-axis hydrothermalism in Guaymas Basin â€“ the Ringvent site. Scientific Reports, 2019, 9, 13847.	3.3	33
106	The science behind marine-oil snow and MOSSFA: Past, present, and future. Progress in Oceanography, 2020, 187, 102398.	3.2	33
107	Radon as a tracer of biogenic gas equilibration and transport from methaneâ€saturated sediments. Journal of Geophysical Research, 1989, 94, 3451-3459.	3.3	32
108	Utilization of <scp>PARAFAC</scp>â€Modeled Excitationâ€Emission Matrix (<scp>EEM</scp>) Fluorescence Spectroscopy to Identify Biogeochemical Processing of Dissolved Organic Matter in a Northern Peatland. Photochemistry and Photobiology, 2015, 91, 684-695.	2.5	32

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109	Modeling studies of dissolved organic matter cycling in Santa Barbara Basin (CA, USA) sediments. Geochimica Et Cosmochimica Acta, 2016, 195, 100-119.	3.9	32
110	Development of a mobile tracer correlation method for assessment of air emissions from landfills and other area sources. Atmospheric Environment, 2015, 102, 323-330.	4.1	31
111	Comparison of sulfur hexafluoride, fluorescein and rhodamine dyes and the bacteriophage PRD-1 in tracing subsurface flow. Journal of Hydrology, 2003, 277, 100-115.	5.4	30
112	Field measurements of internal pressurization in Phragmites australis (Poaceae) and implications for regulation of methane emissions in a midlatitude prairie wetland. American Journal of Botany, 2001, 88, 653-658.	1.7	29
113	Gas hydrate dissolution rates quantified with laboratory and seafloor experiments. Geochimica Et Cosmochimica Acta, 2014, 125, 492-503.	3.9	29
114	Controls on Soil Organic Matter Degradation and Subsequent Greenhouse Gas Emissions Across a Permafrost Thaw Gradient in Northern Sweden. Frontiers in Earth Science, 2020, 8, .	1.8	29
115	Microbial Communities Under Distinct Thermal and Geochemical Regimes in Axial and Off-Axis Sediments of Guaymas Basin. Frontiers in Microbiology, 2021, 12, 633649.	3.5	28
116	A rapid and precise technique for measuring ?13C-CO2 and ?18O-CO2 ratios at ambient CO2 concentrations for biological applications and the influence of container type and storage time on the sample isotope ratios. Rapid Communications in Mass Spectrometry, 2002, 16, 1398-1403.	1.5	27
117	Methane and microbial dynamics in the Gulf of Mexico water column. Frontiers in Marine Science, 2015, 2, .	2.5	25
118	Distribution, Activities, and Interactions of Methanogens and Sulfate-Reducing Prokaryotes in the Florida Everglades. Applied and Environmental Microbiology, 2015, 81, 7431-7442.	3.1	25
119	Soil incubations reproduce field methane dynamics in a subarctic wetland. Biogeochemistry, 2015, 126, 241-249.	3.5	24
120	Hydrocarbon composition and concentrations in the Gulf of Mexico sediments in the 3 years following the Macondo well blowout. Environmental Pollution, 2017, 229, 329-338.	7.5	23
121	Nitrogen Stable Isotopes of Macrophytes Assess Stormwater Nitrogen Inputs to an Urbanized Estuary. Estuaries and Coasts, 2008, 31, 360-370.	2.2	22
122	Spatial distribution of bottlenose dolphins (Tursiops truncatus) inferred from stable isotopes and priority organic pollutants. Science of the Total Environment, 2012, 425, 223-230.	8.0	22
123	Comparison of Field Measurements to Methane Emissions Models at a New Landfill. Environmental Science & Technology, 2016, 50, 9432-9441.	10.0	21
124	Does dissolved organic matter or solid peat fuel anaerobic respiration in peatlands?. Geoderma, 2019, 349, 79-87.	5.1	21
125	An Unusual Inverted Saline Microbial Mat Community in an Interdune Sabkha in the Rub' al Khali (the) Tj ETQq1 1 0.784314 rgBT /Ove	2.5	21
126	Climatic drivers for multidecadal shifts in solute transport and methane production zones within a large peat basin. Global Biogeochemical Cycles, 2016, 30, 1578-1598.	4.9	20

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127	Tracing the incorporation of carbon into benthic foraminiferal calcite following the Deepwater Horizon event. Environmental Pollution, 2018, 237, 424-429.	7.5	20
128	Evaluation of onsite sewage treatment and disposal systems in shallow karst terrain. Water Research, 2008, 42, 2585-2597.	11.3	19
129	Fresh Water Inflow and Oyster Productivity in Apalachicola Bay, FL (USA). Estuaries and Coasts, 2011, 34, 993-1005.	2.2	19
130	Tracing the intrusion of fossil carbon into coastal Louisiana macrofauna using natural 14C and 13C abundances. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 129, 89-95.	1.4	19
131	An evaluation of lipid extraction techniques for interpretation of carbon and nitrogen isotope values in bottlenose dolphin (Tursiops truncatus) skin tissue. Marine Mammal Science, 2014, 30, 85-103.	1.8	18
132	Linear decline in red snapper (Lutjanus campechanus) otolith Î”14C extends the utility of the bomb radiocarbon chronometer for fish age validation in the Northern Gulf of Mexico. ICES Journal of Marine Science, 2018, 75, 1664-1671.	2.5	18
133	Isotopic composition of sinking particles: Oil effects, recovery and baselines in the Gulf of Mexico, 2010â€“2015. Elementa, 2018, 6, .	3.2	18
134	Influence of13C-enriched foliage respired CO2onÎ´13C of ecosystem-respired CO2. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	4.9	17
135	Effect of nutrient enrichment on Î´¹³CH₄ and the methane production pathway in the Florida Everglades. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1267-1280.	3.0	17
136	Sulfur isotope and porewater geochemistry of Florida escarpment seep sediments. Geochimica Et Cosmochimica Acta, 1993, 57, 1253-1266.	3.9	16
137	Bimodal Transport of a Waste Water Plume Injected into Saline Ground Water of the Florida Keys. Ground Water, 2000, 38, 624-634.	1.3	16
138	Pressurized laboratory experiments show no stable carbon isotope fractionation of methane during gas hydrate dissolution and dissociation. Rapid Communications in Mass Spectrometry, 2012, 26, 32-36.	1.5	15
139	Rates and pathways of methanogenesis in hypersaline environments as determined by 13C-labeling. Biogeochemistry, 2015, 126, 329-341.	3.5	14
140	Life history of northern Gulf of Mexico Warsaw grouper Hyporthodus nigritus inferred from otolith radiocarbon analysis. PLoS ONE, 2020, 15, e0228254.	2.5	14
141	Niche Differentiation and Prey Selectivity among Common Bottlenose Dolphins (Tursiops truncatus) Sighted in St. George Sound, Gulf of Mexico. Frontiers in Marine Science, 2017, 4, .	2.5	13
142	Carbon cycling in Santa Barbara Basin sediments: A modeling study. Journal of Marine Research, 2016, 74, 133-159.	0.3	13
143	Does the ¹³C of foliageâ€respired CO₂ and biochemical pools reflect the ¹³C of recently assimilated carbon?. Plant, Cell and Environment, 2009, 32, 1310-1323.	5.7	12
144	Latitude, Elevation, and Mean Annual Temperature Predict Peat Organic Matter Chemistry at a Global Scale. Global Biogeochemical Cycles, 2022, 36, .	4.9	11

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145	Improved global wetland carbon isotopic signatures support post-2006 microbial methane emission increase. Communications Earth & Environment, 2022, 3, .	6.8	11
146	Assessing methods to estimate emissions of non-methane organic compounds from landfills. Waste Management, 2014, 34, 2260-2270.	7.4	10
147	Nitrogen sources and sinks in a wastewater impacted saline aquifer beneath the Florida Keys, USA. Estuarine, Coastal and Shelf Science, 2007, 73, 148-164.	2.1	9
148	Microbial Community Analyses Inform Geochemical Reaction Network Models for Predicting Pathways of Greenhouse Gas Production. Frontiers in Earth Science, 2019, 7, .	1.8	9
149	Petrocarbon evolution: Ramped pyrolysis/oxidation and isotopic studies of contaminated oil sediments from the Deepwater Horizon oil spill in the Gulf of Mexico. PLoS ONE, 2019, 14, e0212433.	2.5	8
150	Permafrost thaw driven changes in hydrology and vegetation cover increase trace gas emissions and climate forcing in Stordalen Mire from 1970 to 2014. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210022.	3.4	8
151	Detection of cold seep derived authigenic carbonates with infrared spectroscopy. Marine Chemistry, 2011, 125, 8-18.	2.3	7
152	Methane Accumulation and Release from Deep Peat: Measurements, Conceptual Models, and Biogeochemical Significance. Geophysical Monograph Series, 0, , 145-158.	0.1	7
153	Methane dynamics in Santa Barbara Basin (USA) sediments as examined with a reaction-transport model. Journal of Marine Research, 2016, 74, 277-313.	0.3	7
154	The southern Gulf of Mexico: A baseline radiocarbon isoscape of surface sediments and isotopic excursions at depth. PLoS ONE, 2020, 15, e0231678.	2.5	7
155	Sources of carbon to suspended particulate organic matter in the northern Gulf of Mexico. Elementa, 2019, 7, .	3.2	7
156	Radiocarbon Analyses Quantify Peat Carbon Losses With Increasing Temperature in a Whole Ecosystem Warming Experiment. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006511.	3.0	7
157	Methane production controls in a young thermokarst lake formed by abrupt permafrost thaw. Global Change Biology, 2022, 28, 3206-3221.	9.5	7
158	Developing a Design Approach to Reduce Methane Emissions from California Landfills. , 2010, , .		6
159	Stable isotopic determination of methane oxidation: When smaller scales are better. Waste Management, 2019, 97, 82-87.	7.4	6
160	Resuspension, Redistribution, and Deposition of Oil-Residues to Offshore Depocenters After the Deepwater Horizon Oil Spill. Frontiers in Marine Science, 2021, 8, .	2.5	6
161	Geochemical Mixing in Peatland Waters: The Role of Organic Acids. Wetlands, 2015, 35, 567-575.	1.5	5
162	Hercules 265 rapid response: Immediate ecosystem impacts of a natural gas blowout incident. Deep-Sea Research Part II: Topical Studies in Oceanography, 2016, 129, 66-76.	1.4	5

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163	Controls on the Variation of Methylmercury Concentration in Seagrass Bed Consumer Organisms of the Big Bend, Florida, USA. Estuaries and Coasts, 2018, 41, 1486-1495.	2.2	5
164	The IsoGenie database: an interdisciplinary data management solution for ecosystems biology and environmental research. PeerJ, 0, 8, e9467.	2.0	5
165	Compositional stability of peat in ecosystem-scale warming mesocosms. PLoS ONE, 2022, 17, e0263994.	2.5	5
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