

Samantha B Joye

List of Publications by Citations

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193 papers	9,981 citations	55 h-index	94 g-index
197 ext. papers	11,660 ext. citations	7.8 avg, IF	6.37 L-index

#	Paper	IF	Citations
193	Forecasting the effects of accelerated sea-level rise on tidal marsh ecosystem services. <i>Frontiers in Ecology and the Environment</i> , 2009 , 7, 73-78	5.5	520
192	The anaerobic oxidation of methane and sulfate reduction in sediments from Gulf of Mexico cold seeps. <i>Chemical Geology</i> , 2004 , 205, 219-238	4.2	409
191	Influence of Sulfide Inhibition of Nitrification on Nitrogen Regeneration in Sediments. <i>Science</i> , 1995 , 270, 623-625	33.3	327
190	Anaerobic oxidation of short-chain hydrocarbons by marine sulphate-reducing bacteria. <i>Nature</i> , 2007 , 449, 898-901	50.4	300
189	Biocomplexity in mangrove ecosystems. <i>Annual Review of Marine Science</i> , 2010 , 2, 395-417	15.4	247
188	Bacterial taxa that limit sulfur flux from the ocean. <i>Science</i> , 2006 , 314, 649-52	33.3	247
187	Chemical dispersants can suppress the activity of natural oil-degrading microorganisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14900-5	11.5	206
186	Oil Impacts on Coastal Wetlands: Implications for the Mississippi River Delta Ecosystem after the Deepwater Horizon Oil Spill. <i>BioScience</i> , 2012 , 62, 562-574	5.7	204
185	Characterization of subsurface polycyclic aromatic hydrocarbons at the Deepwater Horizon site. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	194
184	Magnitude and oxidation potential of hydrocarbon gases released from the BP oil well blowout. <i>Nature Geoscience</i> , 2011 , 4, 160-164	18.3	184
183	Using dispersants after oil spills: impacts on the composition and activity of microbial communities. <i>Nature Reviews Microbiology</i> , 2015 , 13, 388-96	22.2	183
182	Molecular biogeochemistry of sulfate reduction, methanogenesis and the anaerobic oxidation of methane at Gulf of Mexico cold seeps. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 4267-4281	5.5	182
181	Thermogenic gas hydrates and hydrocarbon gases in complex chemosynthetic communities, Gulf of Mexico continental slope. <i>Organic Geochemistry</i> , 1999 , 30, 485-497	3.1	181
180	Ramifications of increased salinity in tidal freshwater sediments: Geochemistry and microbial pathways of organic matter mineralization. <i>Journal of Geophysical Research</i> , 2006 , 111,		168
179	Estimates of flushing times, submarine groundwater discharge, and nutrient fluxes to Okatee Estuary, South Carolina. <i>Journal of Geophysical Research</i> , 2006 , 111,		164
178	Using natural abundance radiocarbon to trace the flux of petrocarbon to the seafloor following the Deepwater Horizon oil spill. <i>Environmental Science & Technology</i> , 2015 , 49, 847-54	10.3	161
177	Evidence of giant sulphur bacteria in Neoproterozoic phosphorites. <i>Nature</i> , 2007 , 445, 198-201	50.4	161

176	Enhancement of coupled nitrification-denitrification by benthic photosynthesis in shallow estuarine sediments. <i>Limnology and Oceanography</i> , 2001 , 46, 62-74	4.8	147
175	MARINE SCIENCE. Deepwater Horizon, 5 years on. <i>Science</i> , 2015 , 349, 592-3	33.3	146
174	Effect of salinity and inorganic nitrogen concentrations on nitrification and denitrification rates in intertidal sediments and rocky biofilms of the Douro River estuary, Portugal. <i>Water Research</i> , 2005 , 39, 1783-94	12.5	144
173	High rates of anaerobic methane oxidation in freshwater wetlands reduce potential atmospheric methane emissions. <i>Nature Communications</i> , 2015 , 6, 7477	17.4	143
172	Impact of natural oil and higher hydrocarbons on microbial diversity, distribution, and activity in Gulf of Mexico cold-seep sediments. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010 , 57, 2008-2021	2.3	132
171	Impact of electron acceptor availability on the anaerobic oxidation of methane in coastal freshwater and brackish wetland sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 115, 15-30	5.5	130
170	Transcriptional response of bathypelagic marine bacterioplankton to the Deepwater Horizon oil spill. <i>ISME Journal</i> , 2013 , 7, 2315-29	11.9	118
169	Abiotic nitrous oxide emission from the hypersaline Don Juan Pond in Antarctica. <i>Nature Geoscience</i> , 2010 , 3, 341-344	18.3	118
168	Microbial Dynamics Following the Macondo Oil Well Blowout across Gulf of Mexico Environments. <i>BioScience</i> , 2014 , 64, 766-777	5.7	104
167	Metabolic variability in seafloor brines revealed by carbon and sulphur dynamics. <i>Nature Geoscience</i> , 2009 , 2, 349-354	18.3	98
166	Diverse, rare microbial taxa responded to the Deepwater Horizon deep-sea hydrocarbon plume. <i>ISME Journal</i> , 2016 , 10, 400-15	11.9	96
165	Cold-seep carbonates of the middle and lower continental slope, northern Gulf of Mexico. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010 , 57, 2040-2054	2.3	94
164	Arsenic speciation in Mono Lake, California: Response to seasonal stratification and anoxia. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 1925-1937	5.5	88
163	The East Siberian Arctic Shelf: towards further assessment of permafrost-related methane fluxes and role of sea ice. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	87
162	Bacterial methane oxidation in sea-floor gas hydrate: Significance to life in extreme environments. <i>Geology</i> , 1998 , 26, 851	5	87
161	The rise and fall of methanotrophy following a deepwater oil-well blowout. <i>Nature Geoscience</i> , 2014 , 7, 423-427	18.3	83
160	Oxidation of ammonia and methane in an alkaline, saline lake. <i>Limnology and Oceanography</i> , 1999 , 44, 178-188	4.8	83
159	Anaerobic methane oxidation in metalliferous hydrothermal sediments: influence on carbon flux and decoupling from sulfate reduction. <i>Environmental Microbiology</i> , 2012 , 14, 2726-40	5.2	82

158	Temperature-driven decoupling of key phases of organic matter degradation in marine sediments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 17036-40	11.5	80
157	Molecular analysis of the sulfate reducing and archaeal community in a meromictic soda lake (Mono Lake, California) by targeting 16S rRNA, mcrA, apsA, and dsrAB genes. <i>Microbial Ecology</i> , 2005 , 50, 29-39	4.4	80
156	Nitrogen cycling in microbial mats: rates and patterns of denitrification and nitrogen fixation. <i>Marine Biology</i> , 1994 , 119, 285-295	2.5	79
155	Aerobic methane oxidation and methanotroph community composition during seasonal stratification in Mono Lake, California (USA). <i>Environmental Microbiology</i> , 2005 , 7, 1127-38	5.2	78
154	Pulsed blooms and persistent oil-degrading bacterial populations in the water column during and after the Deepwater Horizon blowout. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016 , 129, 282-291	2.3	76
153	Analysis of ammonia-oxidizing bacteria from hypersaline Mono Lake, California, on the basis of 16S rRNA sequences. <i>Applied and Environmental Microbiology</i> , 2000 , 66, 2873-81	4.8	75
152	Anaerobic oxidation of ethane by archaea from a marine hydrocarbon seep. <i>Nature</i> , 2019 , 568, 108-111	50.4	74
151	A Tale of Two Spills: Novel Science and Policy Implications of an Emerging New Oil Spill Model. <i>BioScience</i> , 2012 , 62, 461-469	5.7	74
150	Biogeochemical signatures and microbial activity of different cold-seep habitats along the Gulf of Mexico deep slope. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010 , 57, 1990-2001	2.3	72
149	Weak coupling between sulfate reduction and the anaerobic oxidation of methane in methane-rich seafloor sediments during ex situ incubation. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 500-519	5.5	67
148	The Gulf of Mexico ecosystem, six years after the Macondo oil well blowout. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016 , 129, 4-19	2.3	64
147	Geophysical and geochemical signatures of Gulf of Mexico seafloor brines. <i>Biogeosciences</i> , 2005 , 2, 295-309	3.09	64
146	Thermal evidence of water exchange through a coastal aquifer: Implications for nutrient fluxes. <i>Geophysical Research Letters</i> , 2002 , 29, 49-1-49-4	4.9	63
145	The sulfur biogeochemistry of chemosynthetic cold seep communities, gulf of Mexico, USA. <i>Marine Chemistry</i> , 2004 , 87, 97-119	3.7	62
144	Porewater Stoichiometry of Terminal Metabolic Products, Sulfate, and Dissolved Organic Carbon and Nitrogen in Estuarine Intertidal Creek-bank Sediments. <i>Biogeochemistry</i> , 2006 , 77, 375-408	3.8	61
143	Seasonal patterns of nitrogen fixation and denitrification in oceanic mangrove habitats. <i>Marine Ecology - Progress Series</i> , 2006 , 307, 127-141	2.6	61
142	Distributions of putative aerobic methanotrophs in diverse pelagic marine environments. <i>ISME Journal</i> , 2010 , 4, 700-10	11.9	60
141	Porewater biogeochemistry and soil metabolism in dwarf red mangrove habitats (Twin Cays, Belize). <i>Biogeochemistry</i> , 2008 , 87, 181-198	3.8	60

140	Benthic metabolism and the fate of dissolved inorganic nitrogen in intertidal sediments. <i>Estuarine, Coastal and Shelf Science</i> , 2009 , 83, 392-402	2.9	59
139	On the relationship between methane production and oxidation by anaerobic methanotrophic communities from cold seeps of the Gulf of Mexico. <i>Environmental Microbiology</i> , 2008 , 10, 1108-17	5.2	57
138	Dynamics of submarine groundwater discharge and associated fluxes of dissolved nutrients, carbon, and trace gases to the coastal zone (Okatee River estuary, South Carolina). <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 131, 81-97	5.5	54
137	Analysis of methane monooxygenase genes in mono lake suggests that increased methane oxidation activity may correlate with a change in methanotroph community structure. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 6458-62	4.8	54
136	Microbial community response to seawater amendment in low-salinity tidal sediments. <i>Microbial Ecology</i> , 2009 , 58, 558-68	4.4	53
135	Multiple evidence for methylotrophic methanogenesis as the dominant methanogenic pathway in hypersaline sediments from the Orca Basin, Gulf of Mexico. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 187, 1-20	5.5	53
134	Chemotrophic microbial mats and their potential for preservation in the rock record. <i>Astrobiology</i> , 2009 , 9, 843-59	3.7	52
133	Tracing the slow growth of anaerobic methane-oxidizing communities by (15)N-labelling techniques. <i>FEMS Microbiology Ecology</i> , 2008 , 63, 401-11	4.3	52
132	Groundwater controls ecological zonation of salt marsh macrophytes. <i>Ecology</i> , 2015 , 96, 840-9	4.6	50
131	Estimating denitrification rates in estuarine sediments: A comparison of stoichiometric and acetylene based methods. <i>Biogeochemistry</i> , 1996 , 33, 197-215	3.8	50
130	Time integrated variation of sources of fluids and seepage dynamics archived in authigenic carbonates from Gulf of Mexico Gas Hydrate Seafloor Observatory. <i>Chemical Geology</i> , 2014 , 385, 129-139	4.2	48
129	New constraints on methane fluxes and rates of anaerobic methane oxidation in a Gulf of Mexico brine pool via in situ mass spectrometry. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2010 , 57, 2022-2029	2.3	48
128	Invisible oil beyond the satellite footprint. <i>Science Advances</i> , 2020 , 6, eaaw8863	14.3	48
127	Life at the edge of methane ice: microbial cycling of carbon and sulfur in Gulf of Mexico gas hydrates. <i>Chemical Geology</i> , 2004 , 205, 239-251	4.2	47
126	Responses of Microbial Communities to Hydrocarbon Exposures. <i>Oceanography</i> , 2016 , 29, 136-149	2.3	47
125	Diel Rates of N ₂ -fixation and Denitrification in a Transplanted <i>Spartina alterniflora</i> Marsh: Implications for N-flux Dynamics. <i>Estuarine, Coastal and Shelf Science</i> , 1996 , 42, 597-616	2.9	45
124	Relative importance of methylotrophic methanogenesis in sediments of the Western Mediterranean Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 224, 171-186	5.5	44
123	Spatial distribution of nitrogen fixation in methane seep sediment and the role of the ANME archaea. <i>Environmental Microbiology</i> , 2014 , 16, 3012-29	5.2	43

122	Nitrification in Mono Lake, California: Activity and community composition during contrasting hydrological regimes. <i>Limnology and Oceanography</i> , 2008 , 53, 2546-2557	4.8	40
121	Contemporaneous nitrogen fixation and denitrification in intertidal microbial mats: rapid response to runoff events. <i>Marine Ecology - Progress Series</i> , 1993 , 94, 267-274	2.6	40
120	Distinct Bacterial Communities in Surficial Seafloor Sediments Following the 2010 Deepwater Horizon Blowout. <i>Frontiers in Microbiology</i> , 2016 , 7, 1384	5.7	40
119	Extensive carbon isotopic heterogeneity among methane seep microbiota. <i>Environmental Microbiology</i> , 2009 , 11, 2207-15	5.2	39
118	Storm-driven groundwater flow in a salt marsh. <i>Water Resources Research</i> , 2011 , 47,	5.4	38
117	Degradation of algal lipids in microcosm sediments with different mixing regimes. <i>Organic Geochemistry</i> , 2002 , 33, 445-459	3.1	38
116	Novel vacuolate sulfur bacteria from the Gulf of Mexico reproduce by reductive division in three dimensions. <i>Environmental Microbiology</i> , 2005 , 7, 1451-60	5.2	37
115	Biodegradation of crude oil and dispersants in deep seawater from the Gulf of Mexico: Insights from ultra-high resolution mass spectrometry. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016 , 129, 108-118	2.3	36
114	Potential rates and environmental controls of anaerobic ammonium oxidation in estuarine sediments. <i>Aquatic Microbial Ecology</i> , 2012 , 66, 23-32	1.1	35
113	Anaerobic oxidation of methane by sulfate in hypersaline groundwater of the Dead Sea aquifer. <i>Geobiology</i> , 2014 , 12, 511-28	4.3	34
112	Undressing and redressing Ediacaran embryos (Reply). <i>Nature</i> , 2007 , 446, E10-E11	50.4	34
111	Anaerobic oxidation of short-chain alkanes in hydrothermal sediments: potential influences on sulfur cycling and microbial diversity. <i>Frontiers in Microbiology</i> , 2013 , 4, 110	5.7	33
110	Denitrification and environmental factors influencing nitrate removal in Guaymas Basin hydrothermally altered sediments. <i>Frontiers in Microbiology</i> , 2012 , 3, 377	5.7	32
109	Ecology. Thriving in salt. <i>Science</i> , 2009 , 324, 1523-5	33.3	31
108	Alvin explores the deep northern Gulf of Mexico Slope. <i>Eos</i> , 2007 , 88, 341	1.5	31
107	Benthic microbial mats: important sources of fixed nitrogen and carbon to the Twin Cays, Belize ecosystem. <i>Atoll Research Bulletin</i> , 2004 , 528, 1-24	0.4	30
106	What time scales are important for monitoring tidally influenced submarine groundwater discharge? Insights from a salt marsh. <i>Water Resources Research</i> , 2015 , 51, 4198-4207	5.4	29
105	The metabolic pathways and environmental controls of hydrocarbon biodegradation in marine ecosystems. <i>Frontiers in Microbiology</i> , 2014 , 5, 471	5.7	29

104	Barite encrustation of benthic sulfur-oxidizing bacteria at a marine cold seep. <i>Geobiology</i> , 2015 , 13, 588-603	4.3	28
103	Nutrient-Replete Benthic Microalgae as a Source of Dissolved Organic Carbon to Coastal Waters. <i>Estuaries and Coasts</i> , 2008 , 31, 860-876	2.8	28
102	Biogeochemical and 16S rRNA gene sequence evidence supports a novel mode of anaerobic methanotrophy in permanently ice-covered Lake Fryxell, Antarctica. <i>Limnology and Oceanography</i> , 2016 , 61, S119-S130	4.8	27
101	Improved measurement of microbial activity in deep-sea sediments at in situ pressure and methane concentration. <i>Limnology and Oceanography: Methods</i> , 2011 , 9, 499-506	2.6	27
100	Nitrogen Cycling in Coastal Sediments 2008 , 867-915		27
99	Inorganic nitrogen dynamics in intertidal rocky biofilms and sediments of the Douro River estuary (Portugal). <i>Estuaries and Coasts</i> , 2005 , 28, 592-607		27
98	Fatty acid carbon isotope signatures in chemosynthetic mussels and tube worms from gulf of Mexico hydrocarbon seep communities. <i>Chemical Geology</i> , 2002 , 185, 1-8	4.2	27
97	Population growth away from the coastal zone: thirty years of land use change and nutrient export in the Altamaha River, GA. <i>Science of the Total Environment</i> , 2009 , 407, 3347-56	10.2	26
96	Microbial enzymatic activity and secondary production in sediments affected by the sedimentation pulse following the Deepwater Horizon oil spill. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016 , 129, 241-248	2.3	25
95	Stable isotope analyses of NO ₂ ⁻ , NO ₃ ⁻ and N ₂ O in the hypersaline ponds and soils of the McMurdo Dry Valleys, Antarctica. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 135, 87-101	5.5	25
94	High rates of denitrification and nitrate removal in cold seep sediments. <i>ISME Journal</i> , 2011 , 5, 565-7	11.9	25
93	Evaluation of nutrient limitation of CO ₂ and N ₂ fixation in marine microbial mats. <i>Marine Ecology - Progress Series</i> , 1993 , 101, 297-306	2.6	25
92	Analyses of Water Samples From the Deepwater Horizon Oil Spill: Documentation of the Subsurface Plume. <i>Geophysical Monograph Series</i> , 2011 , 77-82	1.1	24
91	Geomicrobiological linkages between short-chain alkane consumption and sulfate reduction rates in seep sediments. <i>Frontiers in Microbiology</i> , 2013 , 4, 386	5.7	23
90	The diverse bacterial community in intertidal, anaerobic sediments at Sapelo Island, Georgia. <i>Microbial Ecology</i> , 2009 , 58, 244-61	4.4	23
89	Comment on "A persistent oxygen anomaly reveals the fate of spilled methane in the deep Gulf of Mexico". <i>Science</i> , 2011 , 332, 1033; author reply 1033	33.3	22
88	Interactions between Methane Oxidation and Nitrification in Coastal Sediments. <i>Geomicrobiology Journal</i> , 2003 , 20, 355-374	2.5	22
87	The role of salinity in shaping dissolved inorganic nitrogen and N ₂ O dynamics in estuarine sediment-water interface. <i>Marine Pollution Bulletin</i> , 2013 , 66, 225-9	6.7	21

86	Intense nitrogen cycling in permeable intertidal sediment revealed by a nitrous oxide hot spot. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 1584-1598	5.9	20
85	Community Metabolism in Microbial Mats: The Occurrence of Biologically-mediated Iron and Manganese Reduction. <i>Estuarine, Coastal and Shelf Science</i> , 1996 , 43, 747-766	2.9	20
84	The Geology and Biogeochemistry of Hydrocarbon Seeps. <i>Annual Review of Earth and Planetary Sciences</i> , 2020 , 48, 205-231	15.3	19
83	Formation of low-magnesium calcite at cold seeps in an aragonite sea. <i>Terra Nova</i> , 2014 , 26, 150-156	3	18
82	Bacterial Oxidation of Methyl Bromide in Mono Lake, California. <i>Environmental Science & Technology</i> , 1997 , 31, 1489-1495	10.3	18
81	BP Gulf Science Data Reveals Ineffectual Subsea Dispersant Injection for the Macondo Blowout. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	18
80	Effects of pressure, methane concentration, sulfate reduction activity, and temperature on methane production in surface sediments of the Gulf of Mexico. <i>Limnology and Oceanography</i> , 2018 , 63, 2080-2092	4.8	17
79	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	9.3	16
78	The impact of the Deepwater Horizon blowout on historic shipwreck-associated sediment microbiomes in the northern Gulf of Mexico. <i>Scientific Reports</i> , 2018 , 8, 9057	4.9	16
77	A halophilic bacterium inhabiting the warm, CaCl ₂ -rich brine of the perennially ice-covered Lake Vanda, McMurdo Dry Valleys, Antarctica. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 1988-95	4.8	16
76	An improved chromatographic method to measure nitrogen, oxygen, argon and methane in gas or liquid samples. <i>Marine Chemistry</i> , 1997 , 59, 63-70	3.7	16
75	Response of anaerobic ammonium oxidation to inorganic nitrogen fluctuations in temperate estuarine sediments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 1829-1839	3.7	16
74	Horizontal acquisition of a patchwork Calvin cycle by symbiotic and free-living Campylobacterota (formerly Epsilonproteobacteria). <i>ISME Journal</i> , 2020 , 14, 104-122	11.9	16
73	Deep oxygen penetration drives nitrification in intertidal beach sands. <i>Limnology and Oceanography</i> , 2018 , 63, S193	4.8	15
72	Seasonal variations of methane fluxes from an unvegetated tidal freshwater mudflat (Hammersmith Creek, GA). <i>Biogeochemistry</i> , 2013 , 115, 349-361	3.8	15
71	Methanotrophy controls groundwater methane export from a barrier island. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 179, 242-256	5.5	14
70	The contribution of anaerobic ammonium oxidation to nitrogen loss in two temperate eutrophic estuaries. <i>Estuarine, Coastal and Shelf Science</i> , 2014 , 143, 41-47	2.9	14
69	Saltwater Intrusion and Submarine Groundwater Discharge: Acceleration of Biogeochemical Reactions in Changing Coastal Aquifers. <i>Frontiers in Earth Science</i> , 2021 , 9,	3.5	14

68	Differential effects of crude oil on denitrification and anammox, and the impact on N ₂ O production. <i>Environmental Pollution</i> , 2016 , 216, 391-399	9.3	13
67	Generation and Utilization of Volatile Fatty Acids and Alcohols in Hydrothermally Altered Sediments in the Guaymas Basin, Gulf of California. <i>Geophysical Research Letters</i> , 2019 , 46, 2637-2646	4.9	13
66	Significance of Acetate as a Microbial Carbon and Energy Source in the Water Column of Gulf of Mexico: Implications for Marine Carbon Cycling. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 223-235	5.9	12
65	Reply to Prince et al.: Ability of chemical dispersants to reduce oil spill impacts remains unclear. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E1422-3	11.5	12
64	Drought impacts on biogeochemistry and microbial processes in salt marsh sediments: a flow-through reactor approach. <i>Biogeochemistry</i> , 2013 , 112, 389-407	3.8	12
63	Offshore oceanic impacts from the BP oil spill. <i>Nature Geoscience</i> , 2010 , 3, 446-446	18.3	12
62	Variation in prokaryotic community composition as a function of resource availability in tidal creek sediments. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 1836-44	4.8	12
61	Microbial Communities Under Distinct Thermal and Geochemical Regimes in Axial and Off-Axis Sediments of Guaymas Basin. <i>Frontiers in Microbiology</i> , 2021 , 12, 633649	5.7	12
60	Patterns and variability in geochemical signatures and microbial activity within and between diverse cold seep habitats along the lower continental slope, Northern Gulf of Mexico. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016 , 129, 31-40	2.3	11
59	Field measurements and modeling of groundwater flow and biogeochemistry at Moses Hammock, a backbarrier island on the Georgia coast. <i>Biogeochemistry</i> , 2011 , 104, 69-90	3.8	11
58	Role of Salt Marshes as Part of Coastal Landscapes 2002 , 23-36		11
57	How Clonal Is Clonal? Genome Plasticity across Multicellular Segments of a "Candidatus Marithrix sp." Filament from Sulfidic, Briny Seafloor Sediments in the Gulf of Mexico. <i>Frontiers in Microbiology</i> , 2016 , 7, 1173	5.7	11
56	Microbial metabolism of methanol and methylamine in the Gulf of Mexico: insight into marine carbon and nitrogen cycling. <i>Environmental Microbiology</i> , 2018 , 20, 4543-4554	5.2	11
55	Microbial diversity and activity in seafloor brine lake sediments (Alaminos Canyon block 601, Gulf of Mexico). <i>Geobiology</i> , 2016 , 14, 483-98	4.3	10
54	On the utility of radium isotopes as tracers of hydrocarbon discharge. <i>Marine Chemistry</i> , 2013 , 156, 98-107	10.7	10
53	An inventory of potentially habitable environments on Mars: Geological and biological perspectives 2011 ,		10
52	Transport, Fate and Impacts of the Deep Plume of Petroleum Hydrocarbons Formed During the Macondo Blowout. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	10
51	Heterotrophic metabolism of C ₁ and C ₂ low molecular weight compounds in northern Gulf of Mexico sediments: Controlling factors and implications for organic carbon degradation. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 247, 243-260	5.5	10

50	Remarkable Capacity for Anaerobic Oxidation of Methane at High Methane Concentration. <i>Geophysical Research Letters</i> , 2019 , 46, 12192-12201	4.9	9
49	Analysis of fae and fhcD genes in Mono Lake, California. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 8949-53	4.8	9
48	Selective quantification of DOSS in marine sediment and sediment-trap solids by LC-QTOF-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 971-978	4.4	8
47	Biogeochemistry, microbial activity, and diversity in surface and subsurface deep-sea sediments of South China Sea. <i>Limnology and Oceanography</i> , 2019 , 64, 2252-2270	4.8	8
46	Hydrocarbon migration pathway and methane budget for a Gulf of Mexico natural seep site: Green Canyon 600. <i>Earth and Planetary Science Letters</i> , 2020 , 545, 116411	5.3	8
45	SnapShot: Microbial Hydrocarbon Bioremediation. <i>Cell</i> , 2018 , 172, 1336-1336.e1	56.2	8
44	Carbon isotopic evidence for microbial control of carbon supply to Orca Basin at the seawaterBrine interface. <i>Biogeosciences</i> , 2013 , 10, 3175-3183	4.6	8
43	Long-term impact of the Deepwater Horizon oil well blowout on methane oxidation dynamics in the northern Gulf of Mexico. <i>Elementa</i> , 2018 , 6,	3.6	8
42	Biogeochemical Dynamics of Coastal Tidal Flats 2019 , 407-440		8
41	Methyl-compounds driven benthic carbon cycling in the sulfate-reducing sediments of South China Sea. <i>Environmental Microbiology</i> , 2021 , 23, 641-651	5.2	8
40	Nitrogen Fixation and Denitrification in the Intertidal and Subtidal Environments of Tomales Bay, California 1993 , 633-653		8
39	Geophysical and geochemical signatures of Gulf of Mexico seafloor brines		7
38	A New Mechanism for Submarine Groundwater Discharge From Continental Shelves. <i>Water Resources Research</i> , 2020 , 56, e2019WR026866	5.4	6
37	Deep-sea corals near cold seeps associate with chemoautotrophic bacteria that are related to the symbionts of cold seep and hydrothermal vent mussels		6
36	Groundwater-Driven Methane Export Reduces Salt Marsh Blue Carbon Potential. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2020GB006587	5.9	6
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