Samantha B Joye

List of Publications by Year in Descending Order

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	Abiotic Nitrous Oxide Production From Sediments and Brine of Don Juan Pond, Wright Valley Antarctica, at Mars Analog Temperatures (−40°C). *Geophysical Research Letters*, **2022**, 49,	4.9	1
192	Marine Biogeochemical Cycles. *The Microbiomes of Humans, Animals, Plants, and the Environment*, **2022**, 623-671		
191	Pelagic denitrification and methane oxidation in oxygen-depleted waters of the Louisiana shelf. *Biogeochemistry*, **2021**, 154, 231-254	3.8	2
190	Inter- and Intra-Annual Bacterioplankton Community Patterns in a Deepwater Sub-Arctic Region: Persistent High Background Abundance of Putative Oil Degraders. *MBio*, **2021**, 12,	7.8	1
189	Sulfate reduction and methanogenesis in the hypersaline deep waters and sediments of a perennially ice-covered lake. *Limnology and Oceanography*, **2021**, 66, 1804-1818	4.8	2
188	Saltwater Intrusion and Submarine Groundwater Discharge: Acceleration of Biogeochemical Reactions in Changing Coastal Aquifers. *Frontiers in Earth Science*, **2021**, 9,	3.5	14
187	Methyl-compounds driven benthic carbon cycling in the sulfate-reducing sediments of South China Sea. *Environmental Microbiology*, **2021**, 23, 641-651	5.2	8
186	Microbial Communities Under Distinct Thermal and Geochemical Regimes in Axial and Off-Axis Sediments of Guaymas Basin. *Frontiers in Microbiology*, **2021**, 12, 633649	5.7	12
185	Response and oil degradation activities of a northeast Atlantic bacterial community to biogenic and synthetic surfactants. *Microbiome*, **2021**, 9, 191	16.6	4
184	A New Mechanism for Submarine Groundwater Discharge From Continental Shelves. *Water Resources Research*, **2020**, 56, e2019WR026866	5.4	6
183	Hydrocarbon migration pathway and methane budget for a Gulf of Mexico natural seep site: Green Canyon 600. *Earth and Planetary Science Letters*, **2020**, 545, 116411	5.3	8
182	Invisible oil beyond the satellite footprint. *Science Advances*, **2020**, 6, eaaw8863	14.3	48
181	The Gulf of Mexico: An Introductory Survey of a Seep-Dominated Seafloor Landscape. *Springer Oceanography*, **2020**, 69-100	0.5	0
180	Vertical stratification and stability of biogeochemical processes in the deep saline waters of Lake Vanda, Antarctica. *Limnology and Oceanography*, **2020**, 65, 569-581	4.8	3
179	The Geology and Biogeochemistry of Hydrocarbon Seeps. *Annual Review of Earth and Planetary Sciences*, **2020**, 48, 205-231	15.3	19
178	Groundwater-Driven Methane Export Reduces Salt Marsh Blue Carbon Potential. *Global Biogeochemical Cycles*, **2020**, 34, e2020GB006587	5.9	6
177	A Synthesis of Deep Benthic Faunal Impacts and Resilience Following the Deepwater Horizon Oil Spill. *Frontiers in Marine Science*, **2020**, 7,	4.5	6

176	Starvation-Dependent Inhibition of the Hydrocarbon Degrader Marinobacter sp. TT1 by a Chemical Dispersant. *Journal of Marine Science and Engineering*, **2020**, 8, 925	2.4	5
175	Transport, Fate and Impacts of the Deep Plume of Petroleum Hydrocarbons Formed During the Macondo Blowout. *Frontiers in Marine Science*, **2020**, 7,	4.5	10
174	Food web complexity weakens size-based constraints on the pyramids of life. *Proceedings of the Royal Society B: Biological Sciences*, **2020**, 287, 20201500	4.4	1
173	Horizontal acquisition of a patchwork Calvin cycle by symbiotic and free-living Campylobacterota (formerly Epsilonproteobacteria). *ISME Journal*, **2020**, 14, 104-122	11.9	16
172	Biodegradation of Petroleum Hydrocarbons in the Deep Sea **2020**, 107-124		5
171	Pelagic methane oxidation in the northern Chukchi Sea. *Limnology and Oceanography*, **2020**, 65, 96-110	4.8	4
170	Microbial ecology and biogeochemistry of hypersaline sediments in Orca Basin. *PLoS ONE*, **2020**, 15, e0231676	3.7	5
169	Remarkable Capacity for Anaerobic Oxidation of Methane at High Methane Concentration. *Geophysical Research Letters*, **2019**, 46, 12192-12201	4.9	9
168	Significance of Acetate as a Microbial Carbon and Energy Source in the Water Column of Gulf of Mexico: Implications for Marine Carbon Cycling. *Global Biogeochemical Cycles*, **2019**, 33, 223-235	5.9	12
167	Biogeochemistry, microbial activity, and diversity in surface and subsurface deep-sea sediments of South China Sea. *Limnology and Oceanography*, **2019**, 64, 2252-2270	4.8	8
166	Anaerobic oxidation of ethane by archaea from a marine hydrocarbon seep. *Nature*, **2019**, 568, 108-111	50.4	74
165	Global Aerobic Degradation of Hydrocarbons in Aquatic Systems **2019**, 797-814		
164	Vertical marine snow distribution in the stratified, hypersaline, and anoxic Orca Basin (Gulf of Mexico). *Elementa*, **2019**, 7,	3.6	5
163	Polysaccharide hydrolysis in the presence of oil and dispersants: Insights into potential degradation pathways of exopolymeric substances (EPS) from oil-degrading bacteria. *Elementa*, **2019**, 7,	3.6	2
162	Biogeochemical Dynamics of Coastal Tidal Flats **2019**, 407-440		8
161	Generation and Utilization of Volatile Fatty Acids and Alcohols in Hydrothermally Altered Sediments in the Guaymas Basin, Gulf of California. *Geophysical Research Letters*, **2019**, 46, 2637-2646	4.9	13
160	Heterotrophic metabolism of C1 and C2 low molecular weight compounds in northern Gulf of Mexico sediments: Controlling factors and implications for organic carbon degradation. *Geochimica Et Cosmochimica Acta*, **2019**, 247, 243-260	5.5	10
159	Relative importance of methylotrophic methanogenesis in sediments of the Western Mediterranean Sea. *Geochimica Et Cosmochimica Acta*, **2018**, 224, 171-186	5.5	44

158	SnapShot: Microbial Hydrocarbon Bioremediation. *Cell*, **2018**, 172, 1336-1336.e1	56.2	8
157	Deep oxygen penetration drives nitrification in intertidal beach sands. *Limnology and Oceanography* , **2018**, 63, S193	4.8	15
156	The impact of the Deepwater Horizon blowout on historic shipwreck-associated sediment microbiomes in the northern Gulf of Mexico. *Scientific Reports*, **2018**, 8, 9057	4.9	16
155	Long-term impact of the Deepwater Horizon oil well blowout on methane oxidation dynamics in the northern Gulf of Mexico. *Elementa*, **2018**, 6,	3.6	8
154	BP Gulf Science Data Reveals Ineffectual Subsea Dispersant Injection for the Macondo Blowout. *Frontiers in Marine Science*, **2018**, 5,	4.5	18
153	Microbial metabolism of methanol and methylamine in the Gulf of Mexico: insight into marine carbon and nitrogen cycling. *Environmental Microbiology*, **2018**, 20, 4543-4554	5.2	11
152	Effects of pressure, methane concentration, sulfate reduction activity, and temperature on methane production in surface sediments of the Gulf of Mexico. *Limnology and Oceanography*, **2018** , 63, 2080-2092	4.8	17
151	Selective quantification of DOSS in marine sediment and sediment-trap solids by LC-QTOF-MS. *Analytical and Bioanalytical Chemistry*, **2017**, 409, 971-978	4.4	8
150	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	9.3	16
149	Agents of change and temporal nutrient dynamics in the Altamaha River Watershed. *Ecosphere*, **2017**, 8, e01519	3.1	3
148	2. Hydrocarbon seep ecosystems **2017**,		1
147	Global Aerobic Degradation of Hydrocarbons in Aquatic Systems **2017**, 1-18		
146	Diverse, rare microbial taxa responded to the Deepwater Horizon deep-sea hydrocarbon plume. *ISME Journal*, **2016**, 10, 400-15	11.9	96
145	Biodegradation of crude oil and dispersants in deep seawater from the Gulf of Mexico: Insights from ultra-high resolution mass spectrometry. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2016**, 129, 108-118	2.3	36
144	Pulsed blooms and persistent oil-degrading bacterial populations in the water column during and after the Deepwater Horizon blowout. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2016**, 129, 282-291	2.3	76
143	Microbial enzymatic activity and secondary production in sediments affected by the sedimentation pulse following the Deepwater Horizon oil spill. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2016**, 129, 241-248	2.3	25
142	Microbial diversity and activity in seafloor brine lake sediments (Alaminos Canyon block 601, Gulf of Mexico). *Geobiology*, **2016**, 14, 483-98	4.3	10
141	Protocols for Radiotracer Estimation of Primary Hydrocarbon Oxidation in Oxygenated Seawater. *Springer Protocols*, **2016**, 263-276	0.3	1

140	Protocols for Radiotracer Estimation of Methane Oxidation Rates at In Situ Methane Concentrations in Marine Sediments. *Springer Protocols*, **2016**, 277-303	0.3	
139	Methanotrophy controls groundwater methane export from a barrier island. *Geochimica Et Cosmochimica Acta*, **2016**, 179, 242-256	5.5	14
138	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. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2016**, 129, 31-40	2.3	11
137	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	2.3	3
136	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	2.3	64
135	Biogeochemical and 16S rRNA gene sequence evidence supports a novel mode of anaerobic methanotrophy in permanently ice-covered Lake Fryxell, Antarctica. *Limnology and Oceanography*, **2016**, 61, S119-S130	4.8	27
134	Reply to Prince et al.: Ability of chemical dispersants to reduce oil spill impacts remains unclear. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E1422-3	11.5	12
133	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. *Frontiers in Microbiology* , **2016**, 7, 1173	5.7	11
132	Distinct Bacterial Communities in Surficial Seafloor Sediments Following the 2010 Deepwater Horizon Blowout. *Frontiers in Microbiology*, **2016**, 7, 1384	5.7	40
131	Responses of Microbial Communities to Hydrocarbon Exposures. *Oceanography*, **2016**, 29, 136-149	2.3	47
130	Differential effects of crude oil on denitrification and anammox, and the impact on N2O production. *Environmental Pollution*, **2016**, 216, 391-399	9.3	13
129	Multiple evidence for methylotrophic methanogenesis as the dominant methanogenic pathway in hypersaline sediments from the Orca Basin, Gulf of Mexico. *Geochimica Et Cosmochimica Acta*, **2016**, 187, 1-20	5.5	53
128	Response of anaerobic ammonium oxidation to inorganic nitrogen fluctuations in temperate estuarine sediments. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 1829-1839	3.7	16
127	MARINE SCIENCE. Deepwater Horizon, 5 years on. *Science*, **2015**, 349, 592-3	33.3	146
126	High rates of anaerobic methane oxidation in freshwater wetlands reduce potential atmospheric methane emissions. *Nature Communications*, **2015**, 6, 7477	17.4	143
125	Groundwater controls ecological zonation of salt marsh macrophytes. *Ecology*, **2015**, 96, 840-9	4.6	50
124	Using dispersants after oil spills: impacts on the composition and activity of microbial communities. *Nature Reviews Microbiology*, **2015**, 13, 388-96	22.2	183
123	Chemical dispersants can suppress the activity of natural oil-degrading microorganisms. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 14900-5	11.5	206

122	Intense nitrogen cycling in permeable intertidal sediment revealed by a nitrous oxide hot spot. *Global Biogeochemical Cycles*, **2015**, 29, 1584-1598	5.9	20
121	The East Siberian Arctic Shelf: towards further assessment of permafrost-related methane fluxes and role of sea ice. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2015**, 373,	3	87
120	What time scales are important for monitoring tidally influenced submarine groundwater discharge? Insights from a salt marsh. *Water Resources Research*, **2015**, 51, 4198-4207	5.4	29
119	Barite encrustation of benthic sulfur-oxidizing bacteria at a marine cold seep. *Geobiology*, **2015**, 13, 588-603	4.3	28
118	A halophilic bacterium inhabiting the warm, CaCl2-rich brine of the perennially ice-covered Lake Vanda, McMurdo Dry Valleys, Antarctica. *Applied and Environmental Microbiology*, **2015**, 81, 1988-95	4.8	16
117	Using natural abundance radiocarbon to trace the flux of petrocarbon to the seafloor following the Deepwater Horizon oil spill. *Environmental Science & Technology*, **2015**, 49, 847-54	10.3	161
116	Benthic primary production and nitrogen cycling in Spartina alterniflora marshes: effect of restoration after acute dieback. *Biogeochemistry*, **2014**, 117, 511-524	3.8	3
115	Formation of low-magnesium calcite at cold seeps in an aragonite sea. *Terra Nova*, **2014**, 26, 150-156	3	18
114	Understanding and Properly Interpreting the 2010 Deepwater Horizon Blowout **2014**, 19-57		1
113	Dynamics of submarine groundwater discharge and associated fluxes of dissolved nutrients, carbon, and trace gases to the coastal zone (Okatee River estuary, South Carolina). *Geochimica Et Cosmochimica Acta*, **2014**, 131, 81-97	5.5	54
112	Microbial Dynamics Following the Macondo Oil Well Blowout across Gulf of Mexico Environments. *BioScience*, **2014**, 64, 766-777	5.7	104
111	A Rapid Response Study of the Hercules Gas Well Blowout. *Eos*, **2014**, 95, 341-342	1.5	3
110	The rise and fall of methanotrophy following a deepwater oil-well blowout. *Nature Geoscience*, **2014**, 7, 423-427	18.3	83
109	The metabolic pathways and environmental controls of hydrocarbon biodegradation in marine ecosystems. *Frontiers in Microbiology*, **2014**, 5, 471	5.7	29
108	Anaerobic oxidation of methane by sulfate in hypersaline groundwater of the Dead Sea aquifer. *Geobiology*, **2014**, 12, 511-28	4.3	34
107	Time integrated variation of sources of fluids and seepage dynamics archived in authigenic carbonates from Gulf of Mexico Gas Hydrate Seafloor Observatory. *Chemical Geology*, **2014**, 385, 129-139	4.2	48
106	Stable isotope analyses of NO2−, NO3− and N2O in the hypersaline ponds and soils of the McMurdo Dry Valleys, Antarctica. *Geochimica Et Cosmochimica Acta*, **2014**, 135, 87-101	5.5	25
105	The contribution of anaerobic ammonium oxidation to nitrogen loss in two temperate eutrophic estuaries. *Estuarine, Coastal and Shelf Science*, **2014**, 143, 41-47	2.9	14

104	Spatial distribution of nitrogen fixation in methane seep sediment and the role of the ANME archaea. *Environmental Microbiology*, **2014**, 16, 3012-29	5.2	43
103	On the utility of radium isotopes as tracers of hydrocarbon discharge. *Marine Chemistry*, **2013**, 156, 98-107	3.7	10
102	Impact of electron acceptor availability on the anaerobic oxidation of methane in coastal freshwater and brackish wetland sediments. *Geochimica Et Cosmochimica Acta*, **2013**, 115, 15-30	5.5	130
101	The role of salinity in shaping dissolved inorganic nitrogen and N□O dynamics in estuarine sediment-water interface. *Marine Pollution Bulletin*, **2013**, 66, 225-9	6.7	21
100	Transcriptional response of bathypelagic marine bacterioplankton to the Deepwater Horizon oil spill. *ISME Journal*, **2013**, 7, 2315-29	11.9	118
99	Seasonal variations of methane fluxes from an unvegetated tidal freshwater mudflat (Hammersmith Creek, GA). *Biogeochemistry*, **2013**, 115, 349-361	3.8	15
98	Drought impacts on biogeochemistry and microbial processes in salt marsh sediments: a flow-through reactor approach. *Biogeochemistry*, **2013**, 112, 389-407	3.8	12
97	Geomicrobiological linkages between short-chain alkane consumption and sulfate reduction rates in seep sediments. *Frontiers in Microbiology*, **2013**, 4, 386	5.7	23
96	Anaerobic oxidation of short-chain alkanes in hydrothermal sediments: potential influences on sulfur cycling and microbial diversity. *Frontiers in Microbiology*, **2013**, 4, 110	5.7	33
95	Carbon isotopic evidence for microbial control of carbon supply to Orca Basin at the seawater□brine interface. *Biogeosciences*, **2013**, 10, 3175-3183	4.6	8
94	Patterns and Controls of Nutrient Concentrations in a Southeastern United States Tidal Creek. *Oceanography*, **2013**, 26, 132-139	2.3	3
93	Anaerobic methane oxidation in metalliferous hydrothermal sediments: influence on carbon flux and decoupling from sulfate reduction. *Environmental Microbiology*, **2012**, 14, 2726-40	5.2	82
92	Oil Impacts on Coastal Wetlands: Implications for the Mississippi River Delta Ecosystem after the Deepwater Horizon Oil Spill. *BioScience*, **2012**, 62, 562-574	5.7	204
91	Denitrification and environmental factors influencing nitrate removal in Guaymas Basin hydrothermally altered sediments. *Frontiers in Microbiology*, **2012**, 3, 377	5.7	32
90	A Tale of Two Spills: Novel Science and Policy Implications of an Emerging New Oil Spill Model. *BioScience*, **2012**, 62, 461-469	5.7	74
89	Potential rates and environmental controls of anaerobic ammonium oxidation in estuarine sediments. *Aquatic Microbial Ecology*, **2012**, 66, 23-32	1.1	35
88	Storm-driven groundwater flow in a salt marsh. *Water Resources Research*, **2011**, 47,	5.4	38
87	Analyses of Water Samples From the Deepwater Horizon Oil Spill: Documentation of the Subsurface Plume. *Geophysical Monograph Series*, **2011**, 77-82	1.1	24

86	Weak coupling between sulfate reduction and the anaerobic oxidation of methane in methane-rich seafloor sediments during ex situ incubation. *Geochimica Et Cosmochimica Acta*, **2011**, 75, 500-519	5.5	67
85	Magnitude and oxidation potential of hydrocarbon gases released from the BP oil well blowout. *Nature Geoscience*, **2011**, 4, 160-164	18.3	184
84	High rates of denitrification and nitrate removal in cold seep sediments. *ISME Journal*, **2011**, 5, 565-7	11.9	25
83	Field measurements and modeling of groundwater flow and biogeochemistry at Moses Hammock, a backbarrier island on the Georgia coast. *Biogeochemistry*, **2011**, 104, 69-90	3.8	11
82	An inventory of potentially habitable environments on Mars: Geological and biological perspectives **2011**,		10
81	Comment on "A persistent oxygen anomaly reveals the fate of spilled methane in the deep Gulf of Mexico". *Science*, **2011**, 332, 1033; author reply 1033	33.3	22
80	Improved measurement of microbial activity in deep-sea sediments at in situ pressure and methane concentration. *Limnology and Oceanography: Methods*, **2011**, 9, 499-506	2.6	27
79	Distributions of putative aerobic methanotrophs in diverse pelagic marine environments. *ISME Journal*, **2010**, 4, 700-10	11.9	60
78	Abiotic nitrous oxide emission from the hypersaline Don Juan Pond in Antarctica. *Nature Geoscience* , **2010**, 3, 341-344	18.3	118
77	Offshore oceanic impacts from the BP oil spill. *Nature Geoscience*, **2010**, 3, 446-446	18.3	12
76	Characterization of subsurface polycyclic aromatic hydrocarbons at the Deepwater Horizon site. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	194
75	New constraints on methane fluxes and rates of anaerobic methane oxidation in a Gulf of Mexico brine pool via in situ mass spectrometry. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2010**, 57, 2022-2029	2.3	48
74	Impact of natural oil and higher hydrocarbons on microbial diversity, distribution, and activity in Gulf of Mexico cold-seep sediments. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2010**, 57, 2008-2021	2.3	132
73	Biogeochemical signatures and microbial activity of different cold-seep habitats along the Gulf of Mexico deep slope. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2010**, 57, 1990-2001	2.3	72
72	Cold-seep carbonates of the middle and lower continental slope, northern Gulf of Mexico. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2010**, 57, 2040-2054	2.3	94
71	Biocomplexity in mangrove ecosystems. *Annual Review of Marine Science*, **2010**, 2, 395-417	15.4	247
70	Forecasting the effects of accelerated sea-level rise on tidal marsh ecosystem services. *Frontiers in Ecology and the Environment*, **2009**, 7, 73-78	5.5	520
69	Ecology. Thriving in salt. *Science*, **2009**, 324, 1523-5	33.3	31

68	Population growth away from the coastal zone: thirty years of land use change and nutrient export in the Altamaha River, GA. *Science of the Total Environment*, **2009**, 407, 3347-56	10.2	26
67	Benthic metabolism and the fate of dissolved inorganic nitrogen in intertidal sediments. *Estuarine, Coastal and Shelf Science*, **2009**, 83, 392-402	2.9	59
66	The diverse bacterial community in intertidal, anaerobic sediments at Sapelo Island, Georgia. *Microbial Ecology*, **2009**, 58, 244-61	4.4	23
65	Microbial community response to seawater amendment in low-salinity tidal sediments. *Microbial Ecology*, **2009**, 58, 558-68	4.4	53
64	Metabolic variability in seafloor brines revealed by carbon and sulphur dynamics. *Nature Geoscience* , **2009**, 2, 349-354	18.3	98
63	Extensive carbon isotopic heterogeneity among methane seep microbiota. *Environmental Microbiology*, **2009**, 11, 2207-15	5.2	39
62	Chemotrophic microbial mats and their potential for preservation in the rock record. *Astrobiology*, **2009**, 9, 843-59	3.7	52
61	On the relationship between methane production and oxidation by anaerobic methanotrophic communities from cold seeps of the Gulf of Mexico. *Environmental Microbiology*, **2008**, 10, 1108-17	5.2	57
60	Variation in prokaryotic community composition as a function of resource availability in tidal creek sediments. *Applied and Environmental Microbiology*, **2008**, 74, 1836-44	4.8	12
59	Nitrification in Mono Lake, California: Activity and community composition during contrasting hydrological regimes. *Limnology and Oceanography*, **2008**, 53, 2546-2557	4.8	40
58	Nitrogen Cycling in Coastal Sediments **2008**, 867-915		27
57	Porewater biogeochemistry and soil metabolism in dwarf red mangrove habitats (Twin Cays, Belize). *Biogeochemistry*, **2008**, 87, 181-198	3.8	60
56	Nutrient-Replete Benthic Microalgae as a Source of Dissolved Organic Carbon to Coastal Waters. *Estuaries and Coasts*, **2008**, 31, 860-876	2.8	28
55	Tracing the slow growth of anaerobic methane-oxidizing communities by (15)N-labelling techniques. *FEMS Microbiology Ecology*, **2008**, 63, 401-11	4.3	52
54	Alvin explores the deep northern Gulf of Mexico Slope. *Eos*, **2007**, 88, 341	1.5	31
53	Evidence of giant sulphur bacteria in Neoproterozoic phosphorites. *Nature*, **2007**, 445, 198-201	50.4	161
52	Undressing and redressing Ediacaran embryos (Reply). *Nature*, **2007**, 446, E10-E11	50.4	34
51	Anaerobic oxidation of short-chain hydrocarbons by marine sulphate-reducing bacteria. *Nature*, **2007**, 449, 898-901	50.4	300

50	Bacterial taxa that limit sulfur flux from the ocean. *Science*, **2006**, 314, 649-52	33.3	247
49	Estimates of flushing times, submarine groundwater discharge, and nutrient fluxes to Okatee Estuary, South Carolina. *Journal of Geophysical Research*, **2006**, 111,		164
48	Ramifications of increased salinity in tidal freshwater sediments: Geochemistry and microbial pathways of organic matter mineralization. *Journal of Geophysical Research*, **2006**, 111,		168
47	Porewater Stoichiometry of Terminal Metabolic Products, Sulfate, and Dissolved Organic Carbon and Nitrogen in Estuarine Intertidal Creek-bank Sediments. *Biogeochemistry*, **2006**, 77, 375-408	3.8	61
46	Seasonal patterns of nitrogen fixation and denitrification in oceanic mangrove habitats. *Marine Ecology - Progress Series*, **2006**, 307, 127-141	2.6	61
45	Evaluating the Potential Importance of Groundwater-Derived Carbon, Nitrogen, and Phosphorus Inputs to South Carolina and Georgia Coastal Ecosystems **2006**, 139-178		1
44	Arsenic speciation in Mono Lake, California: Response to seasonal stratification and anoxia. *Geochimica Et Cosmochimica Acta*, **2005**, 69, 1925-1937	5.5	88
43	Molecular biogeochemistry of sulfate reduction, methanogenesis and the anaerobic oxidation of methane at Gulf of Mexico cold seeps. *Geochimica Et Cosmochimica Acta*, **2005**, 69, 4267-4281	5.5	182
42	Effect of salinity and inorganic nitrogen concentrations on nitrification and denitrification rates in intertidal sediments and rocky biofilms of the Douro River estuary, Portugal. *Water Research*, **2005**, 39, 1783-94	12.5	144
41	Temperature-driven decoupling of key phases of organic matter degradation in marine sediments. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 17036-40	11.5	80
40	Aerobic methane oxidation and methanotroph community composition during seasonal stratification in Mono Lake, California (USA). *Environmental Microbiology*, **2005**, 7, 1127-38	5.2	78
39	Novel vacuolate sulfur bacteria from the Gulf of Mexico reproduce by reductive division in three dimensions. *Environmental Microbiology*, **2005**, 7, 1451-60	5.2	37
38	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. *Microbial Ecology*, **2005**, 50, 29-39	4.4	80
37	Inorganic nitrogen dynamics in intertidal rocky biofilms and sediments of the Douro River estuary (Portugal). *Estuaries and Coasts*, **2005**, 28, 592-607		27
36	Geophysical and geochemical signatures of Gulf of Mexico seafloor brines. *Biogeosciences*, **2005**, 2, 295-309	4.0	64
35	Analysis of methane monooxygenase genes in mono lake suggests that increased methane oxidation activity may correlate with a change in methanotroph community structure. *Applied and Environmental Microbiology*, **2005**, 71, 6458-62	4.8	54
34	Analysis of fae and fhcD genes in Mono Lake, California. *Applied and Environmental Microbiology*, **2005**, 71, 8949-53	4.8	9
33	The sulfur biogeochemistry of chemosynthetic cold seep communities, gulf of Mexico, USA. *Marine Chemistry*, **2004**, 87, 97-119	3.7	62

32	The anaerobic oxidation of methane and sulfate reduction in sediments from Gulf of Mexico cold seeps. *Chemical Geology*, **2004**, 205, 219-238	4.2	409
31	Life at the edge of methane ice: microbial cycling of carbon and sulfur in Gulf of Mexico gas hydrates. *Chemical Geology*, **2004**, 205, 239-251	4.2	47
30	Benthic microbial mats: important sources of fixed nitrogen and carbon to the Twin Cays, Belize ecosystem. *Atoll Research Bulletin*, **2004**, 528, 1-24	0.4	30
29	Interactions between Methane Oxidation and Nitrification in Coastal Sediments. *Geomicrobiology Journal*, **2003**, 20, 355-374	2.5	22
28	Role of Salt Marshes as Part of Coastal Landscapes **2002**, 23-36		11
27	Oxidation of organic and inorganic sulfur compounds by aerobic heterotrophic marine bacteria. *Progress in Industrial Microbiology*, **2002**, 36, 291-310		2
26	Thermal evidence of water exchange through a coastal aquifer: Implications for nutrient fluxes. *Geophysical Research Letters*, **2002**, 29, 49-1-49-4	4.9	63
25	Fatty acid carbon isotope signatures in chemosynthetic mussels and tube worms from gulf of Mexico hydrocarbon seep communities. *Chemical Geology*, **2002**, 185, 1-8	4.2	27
24	Degradation of algal lipids in microcosm sediments with different mixing regimes. *Organic Geochemistry*, **2002**, 33, 445-459	3.1	38
23	Enhancement of coupled nitrification-denitrification by benthic photosynthesis in shallow estuarine sediments. *Limnology and Oceanography*, **2001**, 46, 62-74	4.8	147
22	Analysis of ammonia-oxidizing bacteria from hypersaline Mono Lake, California, on the basis of 16S rRNA sequences. *Applied and Environmental Microbiology*, **2000**, 66, 2873-81	4.8	75
21	Thermogenic gas hydrates and hydrocarbon gases in complex chemosynthetic communities, Gulf of Mexico continental slope. *Organic Geochemistry*, **1999**, 30, 485-497	3.1	181
20	Oxidation of ammonia and methane in an alkaline, saline lake. *Limnology and Oceanography*, **1999**, 44, 178-188	4.8	83
19	Bacterial methane oxidation in sea-floor gas hydrate: Significance to life in extreme environments. *Geology*, **1998**, 26, 851	5	87
18	Bacterial Oxidation of Methyl Bromide in Mono Lake, California. *Environmental Science & Technology*, **1997**, 31, 1489-1495	10.3	18
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