

# Anne E Giblin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124  
papers

10,032  
citations

49  
h-index

99  
g-index

126  
ext. papers

10,873  
ext. citations

4.3  
avg, IF

5.81  
L-index

#	Paper	IF	Citations
124	Dissimilatory nitrate reduction to ammonium (DNRA) is marginal relative to denitrification in emerging-eroding wetlands in a subtropical oligohaline and eutrophic coastal delta.. <i>Science of the Total Environment</i> , <b>2022</b> , 819, 152942	10.2	1
123	Biogeography of ammonia oxidizers in New England and Gulf of Mexico salt marshes and the potential importance of comammox. <i>ISME Communications</i> , <b>2021</b> , 1,		1
122	The Role of Marshes in Coastal Nutrient Dynamics and Loss <b>2021</b> , 113-154		0
121	Emerging Wetlands From River Diversions Can Sustain High Denitrification Rates in a Coastal Delta. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2021</b> , 126, e2020JG006217	3.7	3
120	Identifying and assessing effectiveness of alternative low-effort nitrogen footprint reductions in small research institutions. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 035014	6.2	
119	No Evidence for Long-term Impacts of Oil Spill Contamination on Salt Marsh Soil Nitrogen Cycling Processes. <i>Estuaries and Coasts</i> , <b>2020</b> , 43, 865-879	2.8	4
118	Not All Nitrogen Is Created Equal: Differential Effects of Nitrate and Ammonium Enrichment in Coastal Wetlands. <i>BioScience</i> , <b>2020</b> , 70, 1108-1119	5.7	5
117	Metagenomics coupled with biogeochemical rates measurements provide evidence that nitrate addition stimulates respiration in salt marsh sediments. <i>Limnology and Oceanography</i> , <b>2020</b> , 65, S321	4.8	7
116	Insolation and greenhouse gases drove Holocene winter and spring warming in Arctic Alaska. <i>Quaternary Science Reviews</i> , <b>2020</b> , 242, 106438	3.9	11
115	Wastewater input reductions reverse historic hypereutrophication of Boston Harbor, USA. <i>Ambio</i> , <b>2020</b> , 49, 187-196	6.5	8
114	Nitrate addition stimulates microbial decomposition of organic matter in salt marsh sediments. <i>Global Change Biology</i> , <b>2019</b> , 25, 3224-3241	11.4	29
113	Influence of local and regional drivers on spatial and temporal variation of ammonia-oxidizing communities in Gulf of Mexico salt marshes. <i>Environmental Microbiology Reports</i> , <b>2019</b> , 11, 825-834	3.7	4
112	Widespread occurrence of distinct alkenones from Group I haptophytes in freshwater lakes: Implications for paleotemperature and paleoenvironmental reconstructions. <i>Earth and Planetary Science Letters</i> , <b>2018</b> , 492, 239-250	5.3	38
111	Constraining Marsh Carbon Budgets Using Long-Term C Burial and Contemporary Atmospheric CO2 Fluxes. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 867-878	3.7	28
110	External and local controls on land-sea coupling assessed by stable isotopic signatures of mangrove producers in estuaries of Pacific Panama. <i>Marine Environmental Research</i> , <b>2018</b> , 137, 133-144	3.3	3
109	Nitrate is an important nitrogen source for Arctic tundra plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 3398-3403	11.5	66
108	Using Noble Gases to Compare Parameterizations of Air-Water Gas Exchange and to Constrain Oxygen Losses by Ebullition in a Shallow Aquatic Environment. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 2711-2726	3.7	9

107	Effect of continuous light on leaf wax isotope ratios in <i>Betula nana</i> and <i>Eriophorum vaginatum</i> : implications for Arctic paleoclimate reconstructions. <i>Organic Geochemistry</i> , <b>2018</b> , 125, 70-81	3.1	6
106	Similar temperature responses suggest future climate warming will not alter partitioning between denitrification and anammox in temperate marine sediments. <i>Global Change Biology</i> , <b>2017</b> , 23, 331-340	11.4	18
105	Hydrogen isotope fractionation in leaf waxes in the Alaskan Arctic tundra. <i>Geochimica Et Cosmochimica Acta</i> , <b>2017</b> , 213, 216-236	5.5	42
104	Temperature calibration and phylogenetically distinct distributions for freshwater alkenones: Evidence from northern Alaskan lakes. <i>Geochimica Et Cosmochimica Acta</i> , <b>2016</b> , 180, 177-196	5.5	57
103	Functional Responses of Salt Marsh Microbial Communities to Long-Term Nutrient Enrichment. <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 2862-2871	4.8	26
102	Population Dynamics and Community Composition of Ammonia Oxidizers in Salt Marshes after the Deepwater Horizon Oil Spill. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 854	5.7	16
101	Effects of long-term nutrient additions on Arctic tundra, stream, and lake ecosystems: beyond NPP. <i>Oecologia</i> , <b>2016</b> , 182, 653-65	2.9	13
100	Spatial and Temporal Variability of Nitrification Potential and Ammonia-Oxidizer Abundances in Louisiana Salt Marshes. <i>Estuaries and Coasts</i> , <b>2015</b> , 38, 1824-1837	2.8	25
99	Influence of organic carbon and nitrate loading on partitioning between dissimilatory nitrate reduction to ammonium (DNRA) and N <sub>2</sub> production. <i>Geochimica Et Cosmochimica Acta</i> , <b>2015</b> , 164, 146-160	5.5	125
98	Benthic community metabolism in deep and shallow Arctic lakes during 13 years of whole-lake fertilization. <i>Limnology and Oceanography</i> , <b>2015</b> , 60, 1604-1618	4.8	19
97	Marsh-atmosphere CO <sub>2</sub> exchange in a New England salt marsh. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2015</b> , 120, 1825-1838	3.7	33
96	Effects of experimental warming and carbon addition on nitrate reduction and respiration in coastal sediments. <i>Biogeochemistry</i> , <b>2015</b> , 125, 81-95	3.8	24
95	The Western Maine Coastal Current reduces primary production rates, zooplankton abundance and benthic nutrient fluxes in Massachusetts Bay. <i>ICES Journal of Marine Science</i> , <b>2014</b> , 71, 1158-1169	2.7	4
94	Metabolism of a nitrogen-enriched coastal marine lagoon during the summertime. <i>Biogeochemistry</i> , <b>2014</b> , 118, 1-20	3.8	26
93	Exchange of Nitrogen and Phosphorus Between a Shallow Lagoon and Coastal Waters. <i>Estuaries and Coasts</i> , <b>2014</b> , 37, 63-73	2.8	23
92	Environmental controls of anammox and denitrification in southern New England estuarine and shelf sediments. <i>Limnology and Oceanography</i> , <b>2014</b> , 59, 851-860	4.8	54
91	Response of benthic metabolism and nutrient cycling to reductions in wastewater loading to Boston Harbor, USA. <i>Estuarine, Coastal and Shelf Science</i> , <b>2014</b> , 151, 54-68	2.9	21
90	Rhizosphere heterogeneity shapes abundance and activity of sulfur-oxidizing bacteria in vegetated salt marsh sediments. <i>Frontiers in Microbiology</i> , <b>2014</b> , 5, 309	5.7	41

89	Watershed Deforestation and Down-Estuary Transformations Alter Sources, Transport, and Export of Suspended Particles in Panamanian Mangrove Estuaries. <i>Ecosystems</i> , <b>2014</b> , 17, 96-111	3.9	19
88	Land-Water Interactions <b>2014</b> , 143-172		7
87	Nitrogen dynamics in arctic tundra soils of varying age: differential responses to fertilization and warming. <i>Oecologia</i> , <b>2013</b> , 173, 1575-86	2.9	8
86	Geochemical Influences on Solubility of Soil Organic Carbon in Arctic Tundra Ecosystems. <i>Soil Science Society of America Journal</i> , <b>2013</b> , 77, 473-481	2.5	5
85	Controls of Benthic Nitrogen Fixation and Primary Production from Nutrient Enrichment of Oligotrophic, Arctic Lakes. <i>Ecosystems</i> , <b>2013</b> , 16, 1550-1564	3.9	11
84	The Importance of Dissimilatory Nitrate Reduction to Ammonium (DNRA) in the Nitrogen Cycle of Coastal Ecosystems. <i>Oceanography</i> , <b>2013</b> , 26, 124-131	2.3	306
83	Eddy correlation measurements of oxygen fluxes in permeable sediments exposed to varying current flow and light. <i>Limnology and Oceanography</i> , <b>2013</b> , 58, 1329-1343	4.8	72
82	Nutrient gradients in Panamanian estuaries: effects of watershed deforestation, rainfall, upwelling, and within-estuary transformations. <i>Marine Ecology - Progress Series</i> , <b>2013</b> , 482, 1-15	2.6	10
81	Increased rainfall remarkably freshens estuarine and coastal waters on the Pacific coast of Panama: Magnitude and likely effects on upwelling and nutrient supply. <i>Global and Planetary Change</i> , <b>2012</b> , 92-93, 130-137	4.2	24
80	Abundance of ammonia-oxidizing archaea and bacteria along an estuarine salinity gradient in relation to potential nitrification rates. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 1285-9	4.8	155
79	Nitrogen dynamics in a small arctic watershed: retention and downhill movement of <sup>15</sup> N. <i>Ecological Monographs</i> , <b>2010</b> , 80, 331-351	9	33
78	The effect of increased nitrate loading on nitrate reduction via denitrification and DNRA in salt marsh sediments. <i>Limnology and Oceanography</i> , <b>2010</b> , 55, 789-802	4.8	74
77	Carbon Cycling and the Coupling Between Proton and Electron Transfer Reactions in Aquatic Sediments in Lake Champlain. <i>Aquatic Geochemistry</i> , <b>2010</b> , 16, 421-446	1.7	31
76	Isotopic Approach to Determining the Fate of Ammonium Regenerated from Sediments in a Eutrophic Sub-estuary of Waquoit Bay, MA. <i>Estuaries and Coasts</i> , <b>2010</b> , 33, 1069-1079	2.8	10
75	The Effects of Salinity on Nitrogen Losses from an Oligohaline Estuarine Sediment. <i>Estuaries and Coasts</i> , <b>2010</b> , 33, 1054-1068	2.8	121
74	The Effects of Varying Salinity on Ammonium Exchange in Estuarine Sediments of the Parker River, Massachusetts. <i>Estuaries and Coasts</i> , <b>2010</b> , 33, 985-1003	2.8	81
73	Depleted <sup>15</sup> N in hydrolysable-N of arctic soils and its implication for mycorrhizal fungi-plant interaction. <i>Biogeochemistry</i> , <b>2010</b> , 97, 183-194	3.8	26
72	The effect of increased nitrate loading on nitrate reduction via denitrification and DNRA in salt marsh sediments <b>2010</b> , 55, 789		85

71	New approach for measuring denitrification in the rhizosphere of vegetated marsh sediments. <i>Limnology and Oceanography: Methods</i> , <b>2009</b> , 7, 626-637	2.6	20
70	Modeling denitrification in aquatic sediments. <i>Biogeochemistry</i> , <b>2009</b> , 93, 159-178	3.8	87
69	The regional and global significance of nitrogen removal in lakes and reservoirs. <i>Biogeochemistry</i> , <b>2009</b> , 93, 143-157	3.8	266
68	Effects of regular salt marsh haying on marsh plants, algae, invertebrates and birds at Plum Island Sound, Massachusetts. <i>Wetlands Ecology and Management</i> , <b>2009</b> , 17, 469-487	2.1	15
67	Anammox in Tidal Marsh Sediments: The Role of Salinity, Nitrogen Loading, and Marsh Vegetation. <i>Estuaries and Coasts</i> , <b>2009</b> , 32, 238-245	2.8	91
66	Nitrogen Dynamics of Coastal Salt Marshes <b>2008</b> , 991-1036		23
65	Functionally distinct communities of ammonia-oxidizing bacteria along an estuarine salinity gradient. <i>Environmental Microbiology</i> , <b>2007</b> , 9, 1439-47	5.2	126
64	The effects of grazing by the snail, <i>Lymnaea elodes</i> , on benthic N <sub>2</sub> fixation and primary production in oligotrophic, arctic lakes. <i>Limnology and Oceanography</i> , <b>2007</b> , 52, 2398-2409	4.8	16
63	Nitrogen Fixation in Surface Soils and Vegetation in an Arctic Tundra Watershed: A Key Source of Atmospheric Nitrogen. <i>Arctic, Antarctic, and Alpine Research</i> , <b>2006</b> , 38, 363-372	1.8	61
62	Methods for measuring denitrification: diverse approaches to a difficult problem <b>2006</b> , 16, 2091-122		644
61	Carbon turnover in Alaskan tundra soils: effects of organic matter quality, temperature, moisture and fertilizer. <i>Journal of Ecology</i> , <b>2006</b> , 94, 740-753	6	118
60	Loss of diversity of ammonia-oxidizing bacteria correlates with increasing salinity in an estuary system. <i>Environmental Microbiology</i> , <b>2005</b> , 7, 1289-97	5.2	193
59	Multiple approaches to tracing nitrogen loss in the West Falmouth wastewater plume. <i>Biological Bulletin</i> , <b>2003</b> , 205, 242-3	1.5	
58	Estimating historical in-lake alkalinity generation from sulfate reduction and its relationship to lake chemistry as inferred from algal microfossils. <i>Journal of Paleolimnology</i> , <b>2003</b> , 29, 179-197	2.1	18
57	Sediment din fluxes and preferential recycling of benthic microalgal nitrogen in a shallow macrotidal estuary. <i>Marine Ecology - Progress Series</i> , <b>2003</b> , 257, 25-36	2.6	52
56	Denitrification and the stoichiometry of nutrient regeneration in Waquoit Bay, Massachusetts. <i>Estuaries and Coasts</i> , <b>2002</b> , 25, 272-281		19
55	Resource-based niches provide a basis for plant species diversity and dominance in arctic tundra. <i>Nature</i> , <b>2002</b> , 415, 68-71	50.4	645
54	Fine root production and nutrient content in wet and moist arctic tundras as influenced by chronic fertilization. <i>Plant and Soil</i> , <b>2002</b> , 242, 107-113	4.2	36

53	Tidal flushing of ammonium from intertidal salt marsh sediments: the relative importance of adsorbed ammonium. <i>Biological Bulletin</i> , <b>2002</b> , 203, 258-9	1.5	2
52	Changes in the metal content of surficial sediments of Boston Harbor since the cessation of sludge discharge. <i>Marine Environmental Research</i> , <b>2001</b> , 51, 389-415	3.3	20
51	Benthic metabolism and nutrient regeneration on the continental shelf of Eastern Massachusetts, USA. <i>Marine Ecology - Progress Series</i> , <b>2001</b> , 224, 1-19	2.6	60
50	Plant Carbon-Nutrient Interactions Control CO <sub>2</sub> Exchange in Alaskan Wet Sedge Tundra Ecosystems. <i>Ecology</i> , <b>2000</b> , 81, 453	4.6	5
49	PLANT CARBON-NUTRIENT INTERACTIONS CONTROL CO <sub>2</sub> EXCHANGE IN ALASKAN WET SEDGE TUNDRA ECOSYSTEMS. <i>Ecology</i> , <b>2000</b> , 81, 453-469	4.6	85
48	Differences in properties of salt marsh sediment between hayed and reference sites. <i>Biological Bulletin</i> , <b>2000</b> , 199, 225-6	1.5	4
47	Simulating the effects of climate change and climate variability on carbon dynamics in Arctic tundra. <i>Global Biogeochemical Cycles</i> , <b>2000</b> , 14, 1123-1136	5.9	33
46	Benthic metabolism and nutrient cycling along an estuarine salinity gradient. <i>Estuaries and Coasts</i> , <b>1999</b> , 22, 863		90
45	Using stable isotopes to trace sewage-derived material through Boston Harbor and Massachusetts Bay. <i>Marine Environmental Research</i> , <b>1999</b> , 48, 353-375	3.3	114
44	Hydrologic modeling of an arctic tundra watershed: Toward Pan-Arctic predictions. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 27507-27518		18
43	BIOMASS AND CO <sub>2</sub> FLUX IN WET SEDGE TUNDRAS: RESPONSES TO NUTRIENTS, TEMPERATURE, AND LIGHT. <i>Ecological Monographs</i> , <b>1998</b> , 68, 75-97	9	46
42	Biomass and CO <sub>2</sub> Flux in Wet Sedge Tundras: Responses to Nutrients, Temperature, and Light. <i>Ecological Monographs</i> , <b>1998</b> , 68, 75	9	154
41	Influence of the benthos on growth of planktonic estuarine bacteria. <i>Aquatic Microbial Ecology</i> , <b>1998</b> , 16, 109-118	1.1	19
40	BIOGEOCHEMICAL EFFECTS OF SEAWATER RESTORATION TO DIKED SALT MARSHES <b>1997</b> , 7, 1054-1063		68
39	CLIMATIC EFFECTS ON TUNDRA CARBON STORAGE INFERRED FROM EXPERIMENTAL DATA AND A MODEL. <i>Ecology</i> , <b>1997</b> , 78, 1170-1187	4.6	118
38	RECONSTRUCTION AND ANALYSIS OF HISTORICAL CHANGES IN CARBON STORAGE IN ARCTIC TUNDRA. <i>Ecology</i> , <b>1997</b> , 78, 1188-1198	4.6	54
37	Benthic metabolism and nutrient cycling in Boston Harbor, Massachusetts. <i>Estuaries and Coasts</i> , <b>1997</b> , 20, 346		80
36	Effects of historic tidal restrictions on salt marsh sediment chemistry. <i>Biogeochemistry</i> , <b>1997</b> , 36, 275-303.8		103

35	Carbon-Nutrient Interactions as Constraints on Recovery of Arctic Ecosystems from Disturbance <b>1997</b> , 553-562		1
34	Potential Impacts of Climate Change on Nutrient Cycling, Decomposition, and Productivity in Arctic Ecosystems. <i>Ecological Studies</i> , <b>1997</b> , 349-364	1.1	21
33	Analysis of CO <sub>2</sub> , Temperature, and Moisture Effects on Carbon Storage in Alaskan Arctic Tundra Using a General Ecosystem Model. <i>Ecological Studies</i> , <b>1997</b> , 437-451	1.1	12
32	Effects of drainage and temperature on carbon balance of tussock tundra microcosms. <i>Oecologia</i> , <b>1996</b> , 108, 737-748	2.9	94
31	Changes in Live Plant Biomass, Primary Production, and Species Composition along a Riverside Toposequence in Arctic Alaska, U.S.A.. <i>Arctic and Alpine Research</i> , <b>1996</b> , 28, 363		62
30	The fate of nitrogen and phosphorus at the land-sea margin of the North Atlantic Ocean. <i>Biogeochemistry</i> , <b>1996</b> , 35, 141-180	3.8	653
29	Estimating denitrification in North Atlantic continental shelf sediments. <i>Biogeochemistry</i> , <b>1996</b> , 35, 235-260	3.8	234
28	N natural abundances and N use by tundra plants. <i>Oecologia</i> , <b>1996</b> , 107, 386-394	2.9	277
27	The fate of nitrogen and phosphorus at the land-sea margin of the North Atlantic Ocean <b>1996</b> , 141-180		15
26	Estimating denitrification in North Atlantic continental shelf sediments <b>1996</b> , 235-260		10
25	Responses of Arctic Tundra to Experimental and Observed Changes in Climate. <i>Ecology</i> , <b>1995</b> , 76, 694-714	1.6	1004
24	Benthic respiration and nitrogen release in Buzzards Bay, Massachusetts. <i>Journal of Marine Research</i> , <b>1995</b> , 53, 107-135	1.5	40
23	Stable Sulfur Isotopic Compositions of Chromium-Reducible Sulfur in Lake Sediments. <i>ACS Symposium Series</i> , <b>1995</b> , 397-410	0.4	12
22	Measuring Nutrient Availability in Arctic Soils Using Ion Exchange Resins: A Field Test. <i>Soil Science Society of America Journal</i> , <b>1994</b> , 58, 1154-1162	2.5	97
21	Analysis of Acid Volatile Sulfide and Metals to Predict the Toxicity of Boston Harbor Sediments. <i>Biological Bulletin</i> , <b>1994</b> , 187, 290-291	1.5	2
20	Global Change and the Carbon Balance of Arctic Ecosystems. <i>BioScience</i> , <b>1992</b> , 42, 433-441	5.7	366
19	Biogeochemical Diversity Along a Riverside Toposequence in Arctic Alaska. <i>Ecological Monographs</i> , <b>1991</b> , 61, 415-435	9	342
18	The role of seasonal turnover in lake alkalinity dynamics. <i>Limnology and Oceanography</i> , <b>1991</b> , 36, 106-124	2.8	12



17	Effects of Temperature and Substrate Quality on Element Mineralization in Six Arctic Soils. <i>Ecology</i> , <b>1991</b> , 72, 242-253	4.6	464
16	Biogeochemical Diversity and Element Transport in a Heterogeneous Landscape, the North Slope of Alaska. <i>Ecological Studies</i> , <b>1991</b> , 105-125	1.1	29
15	Sulfur storage and alkalinity generation in New England lake sediments. <i>Limnology and Oceanography</i> , <b>1990</b> , 35, 852-869	4.8	56
14	Nitrogen inputs to a marine embayment: the importance of groundwater. <i>Biogeochemistry</i> , <b>1990</b> , 10, 309-328	3.8	101
13	Pyrite formation in marshes during early diagenesis. <i>Geomicrobiology Journal</i> , <b>1988</b> , 6, 77-97	2.5	60
12	Speciation of Dissolved Sulfur in Salt Marshes by Polarographic Methods. <i>ACS Symposium Series</i> , <b>1986</b> , 340-355	0.4	15
11	Trace metal solubility in salt marsh sediments contaminated with sewage sludge. <i>Estuarine, Coastal and Shelf Science</i> , <b>1986</b> , 23, 477-498	2.9	51
10	Polarographic analysis of sulfur species in marine porewaters <sup>1</sup> . <i>Limnology and Oceanography</i> , <b>1985</b> , 30, 727-736	4.8	150
9	Porewater evidence for a dynamic sedimentary iron cycle in salt marshes <sup>1</sup> . <i>Limnology and Oceanography</i> , <b>1984</b> , 29, 47-63	4.8	136
8	The fate of metals introduced into a new england salt marsh. <i>Water, Air, and Soil Pollution</i> , <b>1983</b> , 20, 81-98	2.1	21
7	Sulfate reduction in the salt marshes at Sapelo Island, Georgia <sup>1</sup> . <i>Limnology and Oceanography</i> , <b>1983</b> , 28, 70-82	4.8	109
6	Response of a salt marsh microbial community to inputs of heavy metals: Aerobic heterotrophic metabolism. <i>Environmental Toxicology and Chemistry</i> , <b>1983</b> , 2, 343-351	3.8	4
5	Pyrite and oxidized iron mineral phases formed from pyrite oxidation in salt marsh and estuarine sediments. <i>Geochimica Et Cosmochimica Acta</i> , <b>1982</b> , 46, 2665-2669	5.5	110
4	Trace element enrichments in decomposing litter of <i>Spartina alterniflora</i> . <i>Aquatic Botany</i> , <b>1981</b> , 11, 111-120	3.8	38
3	UPTAKE AND LOSSES OF HEAVY METALS IN SEWAGE SLUDGE BY A NEW ENGLAND SALT MARSH. <i>American Journal of Botany</i> , <b>1980</b> , 67, 1059-1068	2.7	16
2	UPTAKE AND LOSSES OF HEAVY METALS IN SEWAGE SLUDGE BY A NEW ENGLAND SALT MARSH <b>1980</b> , 67, 1059		46
1	Understanding the effects of climate change via disturbance on pristine arctic lakes: multitrophic level response and recovery to a 12-yr, low-level fertilization experiment. <i>Limnology and Oceanography</i> ,	4.8	1