

Anne E Giblin

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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	Responses of Arctic Tundra to Experimental and Observed Changes in Climate. <i>Ecology</i> , 1995 , 76, 694-714	11.6	1004
123	The fate of nitrogen and phosphorus at the land-sea margin of the North Atlantic Ocean. <i>Biogeochemistry</i> , 1996 , 35, 141-180	3.8	653
122	Resource-based niches provide a basis for plant species diversity and dominance in arctic tundra. <i>Nature</i> , 2002 , 415, 68-71	50.4	645
121	Methods for measuring denitrification: diverse approaches to a difficult problem 2006 , 16, 2091-122		644
120	Effects of Temperature and Substrate Quality on Element Mineralization in Six Arctic Soils. <i>Ecology</i> , 1991 , 72, 242-253	4.6	464
119	Global Change and the Carbon Balance of Arctic Ecosystems. <i>BioScience</i> , 1992 , 42, 433-441	5.7	366
118	Biogeochemical Diversity Along a Riverside Toposequence in Arctic Alaska. <i>Ecological Monographs</i> , 1991 , 61, 415-435	9	342
117	The Importance of Dissimilatory Nitrate Reduction to Ammonium (DNRA) in the Nitrogen Cycle of Coastal Ecosystems. <i>Oceanography</i> , 2013 , 26, 124-131	2.3	306
116	N natural abundances and N use by tundra plants. <i>Oecologia</i> , 1996 , 107, 386-394	2.9	277
115	The regional and global significance of nitrogen removal in lakes and reservoirs. <i>Biogeochemistry</i> , 2009 , 93, 143-157	3.8	266
114	Estimating denitrification in North Atlantic continental shelf sediments. <i>Biogeochemistry</i> , 1996 , 35, 235-260	3.6	234
113	Loss of diversity of ammonia-oxidizing bacteria correlates with increasing salinity in an estuary system. <i>Environmental Microbiology</i> , 2005 , 7, 1289-97	5.2	193
112	Abundance of ammonia-oxidizing archaea and bacteria along an estuarine salinity gradient in relation to potential nitrification rates. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 1285-9	4.8	155
111	Biomass and CO ₂ Flux in Wet Sedge Tundras: Responses to Nutrients, Temperature, and Light. <i>Ecological Monographs</i> , 1998 , 68, 75	9	154
110	Polarographic analysis of sulfur species in marine porewaters ¹ . <i>Limnology and Oceanography</i> , 1985 , 30, 727-736	4.8	150
109	Porewater evidence for a dynamic sedimentary iron cycle in salt marshes ¹ . <i>Limnology and Oceanography</i> , 1984 , 29, 47-63	4.8	136
108	Functionally distinct communities of ammonia-oxidizing bacteria along an estuarine salinity gradient. <i>Environmental Microbiology</i> , 2007 , 9, 1439-47	5.2	126

107	Influence of organic carbon and nitrate loading on partitioning between dissimilatory nitrate reduction to ammonium (DNRA) and N ₂ production. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 164, 146-160	5.5	125
106	The Effects of Salinity on Nitrogen Losses from an Oligohaline Estuarine Sediment. <i>Estuaries and Coasts</i> , 2010 , 33, 1054-1068	2.8	121
105	CLIMATIC EFFECTS ON TUNDRA CARBON STORAGE INFERRED FROM EXPERIMENTAL DATA AND A MODEL. <i>Ecology</i> , 1997 , 78, 1170-1187	4.6	118
104	Carbon turnover in Alaskan tundra soils: effects of organic matter quality, temperature, moisture and fertilizer. <i>Journal of Ecology</i> , 2006 , 94, 740-753	6	118
103	Using stable isotopes to trace sewage-derived material through Boston Harbor and Massachusetts Bay. <i>Marine Environmental Research</i> , 1999 , 48, 353-375	3.3	114
102	Pyrite and oxidized iron mineral phases formed from pyrite oxidation in salt marsh and estuarine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1982 , 46, 2665-2669	5.5	110
101	Sulfate reduction in the salt marshes at Sapelo Island, Georgia ¹ . <i>Limnology and Oceanography</i> , 1983 , 28, 70-82	4.8	109
100	Effects of historic tidal restrictions on salt marsh sediment chemistry. <i>Biogeochemistry</i> , 1997 , 36, 275-303	3.8	103
99	Nitrogen inputs to a marine embayment: the importance of groundwater. <i>Biogeochemistry</i> , 1990 , 10, 309-328	3.8	101
98	Measuring Nutrient Availability in Arctic Soils Using Ion Exchange Resins: A Field Test. <i>Soil Science Society of America Journal</i> , 1994 , 58, 1154-1162	2.5	97
97	Effects of drainage and temperature on carbon balance of tussock tundra microcosms. <i>Oecologia</i> , 1996 , 108, 737-748	2.9	94
96	Anammox in Tidal Marsh Sediments: The Role of Salinity, Nitrogen Loading, and Marsh Vegetation. <i>Estuaries and Coasts</i> , 2009 , 32, 238-245	2.8	91
95	Benthic metabolism and nutrient cycling along an estuarine salinity gradient. <i>Estuaries and Coasts</i> , 1999 , 22, 863		90
94	Modeling denitrification in aquatic sediments. <i>Biogeochemistry</i> , 2009 , 93, 159-178	3.8	87
93	PLANT CARBON-NUTRIENT INTERACTIONS CONTROL CO ₂ EXCHANGE IN ALASKAN WET SEDGE TUNDRA ECOSYSTEMS. <i>Ecology</i> , 2000 , 81, 453-469	4.6	85
92	The effect of increased nitrate loading on nitrate reduction via denitrification and DNRA in salt marsh sediments 2010 , 55, 789		85
91	The Effects of Varying Salinity on Ammonium Exchange in Estuarine Sediments of the Parker River, Massachusetts. <i>Estuaries and Coasts</i> , 2010 , 33, 985-1003	2.8	81
90	Benthic metabolism and nutrient cycling in Boston Harbor, Massachusetts. <i>Estuaries and Coasts</i> , 1997 , 20, 346		80

89	The effect of increased nitrate loading on nitrate reduction via denitrification and DNRA in salt marsh sediments. <i>Limnology and Oceanography</i> , 2010 , 55, 789-802	4.8	74
88	Eddy correlation measurements of oxygen fluxes in permeable sediments exposed to varying current flow and light. <i>Limnology and Oceanography</i> , 2013 , 58, 1329-1343	4.8	72
87	BIOGEOCHEMICAL EFFECTS OF SEAWATER RESTORATION TO DIKED SALT MARSHES 1997 , 7, 1054-1063		68
86	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> , 2018 , 115, 3398-3403	11.5	66
85	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> , 1996 , 28, 363		62
84	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> , 2006 , 38, 363-372	1.8	61
83	Pyrite formation in marshes during early diagenesis. <i>Geomicrobiology Journal</i> , 1988 , 6, 77-97	2.5	60
82	Benthic metabolism and nutrient regeneration on the continental shelf of Eastern Massachusetts, USA. <i>Marine Ecology - Progress Series</i> , 2001 , 224, 1-19	2.6	60
81	Temperature calibration and phylogenetically distinct distributions for freshwater alkenones: Evidence from northern Alaskan lakes. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 180, 177-196	5.5	57
80	Sulfur storage and alkalinity generation in New England lake sediments. <i>Limnology and Oceanography</i> , 1990 , 35, 852-869	4.8	56
79	Environmental controls of anammox and denitrification in southern New England estuarine and shelf sediments. <i>Limnology and Oceanography</i> , 2014 , 59, 851-860	4.8	54
78	RECONSTRUCTION AND ANALYSIS OF HISTORICAL CHANGES IN CARBON STORAGE IN ARCTIC TUNDRA. <i>Ecology</i> , 1997 , 78, 1188-1198	4.6	54
77	Sediment din fluxes and preferential recycling of benthic microalgal nitrogen in a shallow macrotidal estuary. <i>Marine Ecology - Progress Series</i> , 2003 , 257, 25-36	2.6	52
76	Trace metal solubility in salt marsh sediments contaminated with sewage sludge. <i>Estuarine, Coastal and Shelf Science</i> , 1986 , 23, 477-498	2.9	51
75	BIOMASS AND CO2 FLUX IN WET SEDGE TUNDRAS: RESPONSES TO NUTRIENTS, TEMPERATURE, AND LIGHT. <i>Ecological Monographs</i> , 1998 , 68, 75-97	9	46
74	UPTAKE AND LOSSES OF HEAVY METALS IN SEWAGE SLUDGE BY A NEW ENGLAND SALT MARSH 1980 , 67, 1059		46
73	Hydrogen isotope fractionation in leaf waxes in the Alaskan Arctic tundra. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 213, 216-236	5.5	42
72	Rhizosphere heterogeneity shapes abundance and activity of sulfur-oxidizing bacteria in vegetated salt marsh sediments. <i>Frontiers in Microbiology</i> , 2014 , 5, 309	5.7	41

71	Benthic respiration and nitrogen release in Buzzards Bay, Massachusetts. <i>Journal of Marine Research</i> , 1995 , 53, 107-135	1.5	40
70	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> , 2018 , 492, 239-250	5.3	38
69	Trace element enrichments in decomposing litter of <i>Spartina alterniflora</i> . <i>Aquatic Botany</i> , 1981 , 11, 111-120	1.2	38
68	Fine root production and nutrient content in wet and moist arctic tundras as influenced by chronic fertilization. <i>Plant and Soil</i> , 2002 , 242, 107-113	4.2	36
67	Marsh-atmosphere CO ₂ exchange in a New England salt marsh. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 1825-1838	3.7	33
66	Nitrogen dynamics in a small arctic watershed: retention and downhill movement of ¹⁵ N. <i>Ecological Monographs</i> , 2010 , 80, 331-351	9	33
65	Simulating the effects of climate change and climate variability on carbon dynamics in Arctic tundra. <i>Global Biogeochemical Cycles</i> , 2000 , 14, 1123-1136	5.9	33
64	Carbon Cycling and the Coupling Between Proton and Electron Transfer Reactions in Aquatic Sediments in Lake Champlain. <i>Aquatic Geochemistry</i> , 2010 , 16, 421-446	1.7	31
63	Nitrate addition stimulates microbial decomposition of organic matter in salt marsh sediments. <i>Global Change Biology</i> , 2019 , 25, 3224-3241	11.4	29
62	Biogeochemical Diversity and Element Transport in a Heterogeneous Landscape, the North Slope of Alaska. <i>Ecological Studies</i> , 1991 , 105-125	1.1	29
61	Constraining Marsh Carbon Budgets Using Long-Term C Burial and Contemporary Atmospheric CO ₂ Fluxes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 867-878	3.7	28
60	Functional Responses of Salt Marsh Microbial Communities to Long-Term Nutrient Enrichment. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 2862-2871	4.8	26
59	Metabolism of a nitrogen-enriched coastal marine lagoon during the summertime. <i>Biogeochemistry</i> , 2014 , 118, 1-20	3.8	26
58	Depleted ¹⁵ N in hydrolysable-N of arctic soils and its implication for mycorrhizal fungi-plant interaction. <i>Biogeochemistry</i> , 2010 , 97, 183-194	3.8	26
57	Spatial and Temporal Variability of Nitrification Potential and Ammonia-Oxidizer Abundances in Louisiana Salt Marshes. <i>Estuaries and Coasts</i> , 2015 , 38, 1824-1837	2.8	25
56	Effects of experimental warming and carbon addition on nitrate reduction and respiration in coastal sediments. <i>Biogeochemistry</i> , 2015 , 125, 81-95	3.8	24
55	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> , 2012 , 92-93, 130-137	4.2	24
54	Exchange of Nitrogen and Phosphorus Between a Shallow Lagoon and Coastal Waters. <i>Estuaries and Coasts</i> , 2014 , 37, 63-73	2.8	23

53	Nitrogen Dynamics of Coastal Salt Marshes 2008 , 991-1036		23
52	Response of benthic metabolism and nutrient cycling to reductions in wastewater loading to Boston Harbor, USA. <i>Estuarine, Coastal and Shelf Science</i> , 2014 , 151, 54-68	2.9	21
51	The fate of metals introduced into a new england salt marsh. <i>Water, Air, and Soil Pollution</i> , 1983 , 20, 81-986	2.8	21
50	Potential Impacts of Climate Change on Nutrient Cycling, Decomposition, and Productivity in Arctic Ecosystems. <i>Ecological Studies</i> , 1997 , 349-364	1.1	21
49	New approach for measuring denitrification in the rhizosphere of vegetated marsh sediments. <i>Limnology and Oceanography: Methods</i> , 2009 , 7, 626-637	2.6	20
48	Changes in the metal content of surficial sediments of Boston Harbor since the cessation of sludge discharge. <i>Marine Environmental Research</i> , 2001 , 51, 389-415	3.3	20
47	Benthic community metabolism in deep and shallow Arctic lakes during 13 years of whole-lake fertilization. <i>Limnology and Oceanography</i> , 2015 , 60, 1604-1618	4.8	19
46	Watershed Deforestation and Down-Estuary Transformations Alter Sources, Transport, and Export of Suspended Particles in Panamanian Mangrove Estuaries. <i>Ecosystems</i> , 2014 , 17, 96-111	3.9	19
45	Denitrification and the stoichiometry of nutrient regeneration in Waquoit Bay, Massachusetts. <i>Estuaries and Coasts</i> , 2002 , 25, 272-281		19
44	Influence of the benthos on growth of planktonic estuarine bacteria. <i>Aquatic Microbial Ecology</i> , 1998 , 16, 109-118	1.1	19
43	Similar temperature responses suggest future climate warming will not alter partitioning between denitrification and anammox in temperate marine sediments. <i>Global Change Biology</i> , 2017 , 23, 331-340	11.4	18
42	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> , 2003 , 29, 179-197	2.1	18
41	Hydrologic modeling of an arctic tundra watershed: Toward Pan-Arctic predictions. <i>Journal of Geophysical Research</i> , 1999 , 104, 27507-27518		18
40	The effects of grazing by the snail, <i>Lymnaea elodes</i> , on benthic N ₂ fixation and primary production in oligotrophic, arctic lakes. <i>Limnology and Oceanography</i> , 2007 , 52, 2398-2409	4.8	16
39	UPTAKE AND LOSSES OF HEAVY METALS IN SEWAGE SLUDGE BY A NEW ENGLAND SALT MARSH. <i>American Journal of Botany</i> , 1980 , 67, 1059-1068	2.7	16
38	Population Dynamics and Community Composition of Ammonia Oxidizers in Salt Marshes after the Deepwater Horizon Oil Spill. <i>Frontiers in Microbiology</i> , 2016 , 7, 854	5.7	16
37	Effects of regular salt marsh haying on marsh plants, algae, invertebrates and birds at Plum Island Sound, Massachusetts. <i>Wetlands Ecology and Management</i> , 2009 , 17, 469-487	2.1	15
36	Speciation of Dissolved Sulfur in Salt Marshes by Polarographic Methods. <i>ACS Symposium Series</i> , 1986 , 340-355	0.4	15

35	The fate of nitrogen and phosphorus at the land-sea margin of the North Atlantic Ocean 1996 , 141-180		15
34	Effects of long-term nutrient additions on Arctic tundra, stream, and lake ecosystems: beyond NPP. <i>Oecologia</i> , 2016 , 182, 653-65	2.9	13
33	Stable Sulfur Isotopic Compositions of Chromium-Reducible Sulfur in Lake Sediments. <i>ACS Symposium Series</i> , 1995 , 397-410	0.4	12
32	The role of seasonal turnover in lake alkalinity dynamics. <i>Limnology and Oceanography</i> , 1991 , 36, 106-122	4.8	12
31	Analysis of CO ₂ , Temperature, and Moisture Effects on Carbon Storage in Alaskan Arctic Tundra Using a General Ecosystem Model. <i>Ecological Studies</i> , 1997 , 437-451	1.1	12
30	Controls of Benthic Nitrogen Fixation and Primary Production from Nutrient Enrichment of Oligotrophic, Arctic Lakes. <i>Ecosystems</i> , 2013 , 16, 1550-1564	3.9	11
29	Insolation and greenhouse gases drove Holocene winter and spring warming in Arctic Alaska. <i>Quaternary Science Reviews</i> , 2020 , 242, 106438	3.9	11
28	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> , 2010 , 33, 1069-1079	2.8	10
27	Nutrient gradients in Panamanian estuaries: effects of watershed deforestation, rainfall, upwelling, and within-estuary transformations. <i>Marine Ecology - Progress Series</i> , 2013 , 482, 1-15	2.6	10
26	Estimating denitrification in North Atlantic continental shelf sediments 1996 , 235-260		10
25	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> , 2018 , 123, 2711-2726	3.7	9
24	Nitrogen dynamics in arctic tundra soils of varying age: differential responses to fertilization and warming. <i>Oecologia</i> , 2013 , 173, 1575-86	2.9	8
23	Wastewater input reductions reverse historic hypereutrophication of Boston Harbor, USA. <i>Ambio</i> , 2020 , 49, 187-196	6.5	8
22	Land-Water Interactions 2014 , 143-172		7
21	Metagenomics coupled with biogeochemical rates measurements provide evidence that nitrate addition stimulates respiration in salt marsh sediments. <i>Limnology and Oceanography</i> , 2020 , 65, S321	4.8	7
20	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> , 2018 , 125, 70-81	3.1	6
19	Geochemical Influences on Solubility of Soil Organic Carbon in Arctic Tundra Ecosystems. <i>Soil Science Society of America Journal</i> , 2013 , 77, 473-481	2.5	5
18	Plant Carbon-Nutrient Interactions Control CO ₂ Exchange in Alaskan Wet Sedge Tundra Ecosystems. <i>Ecology</i> , 2000 , 81, 453	4.6	5

17	Not All Nitrogen Is Created Equal: Differential Effects of Nitrate and Ammonium Enrichment in Coastal Wetlands. <i>BioScience</i> , 2020 , 70, 1108-1119	5.7	5
16	No Evidence for Long-term Impacts of Oil Spill Contamination on Salt Marsh Soil Nitrogen Cycling Processes. <i>Estuaries and Coasts</i> , 2020 , 43, 865-879	2.8	4
15	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> , 2014 , 71, 1158-1169	2.7	4
14	Differences in properties of salt marsh sediment between hayed and reference sites. <i>Biological Bulletin</i> , 2000 , 199, 225-6	1.5	4
13	Response of a salt marsh microbial community to inputs of heavy metals: Aerobic heterotrophic metabolism. <i>Environmental Toxicology and Chemistry</i> , 1983 , 2, 343-351	3.8	4
12	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> , 2019 , 11, 825-834	3.7	4
11	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> , 2018 , 137, 133-144	3.3	3
10	Emerging Wetlands From River Diversions Can Sustain High Denitrification Rates in a Coastal Delta. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG006217	3.7	3
9	Tidal flushing of ammonium from intertidal salt marsh sediments: the relative importance of adsorbed ammonium. <i>Biological Bulletin</i> , 2002 , 203, 258-9	1.5	2
8	Analysis of Acid Volatile Sulfide and Metals to Predict the Toxicity of Boston Harbor Sediments. <i>Biological Bulletin</i> , 1994 , 187, 290-291	1.5	2
7	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> , 2022 , 819, 152942	10.2	1
6	Carbon-Nutrient Interactions as Constraints on Recovery of Arctic Ecosystems from Disturbance 1997 , 553-562		1
5	Biogeography of ammonia oxidizers in New England and Gulf of Mexico salt marshes and the potential importance of comammox. <i>ISME Communications</i> , 2021 , 1,		1
4	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
3	The Role of Marshes in Coastal Nutrient Dynamics and Loss 2021 , 113-154		0
2	Multiple approaches to tracing nitrogen loss in the West Falmouth wastewater plume. <i>Biological Bulletin</i> , 2003 , 205, 242-3	1.5	
1	Identifying and assessing effectiveness of alternative low-effort nitrogen footprint reductions in small research institutions. <i>Environmental Research Letters</i> , 2021 , 16, 035014	6.2	