

Robinson Fulweiler

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.

102
papers

3,116
citations

29
h-index

53
g-index

112
ext. papers

3,892
ext. citations

6.7
avg, IF

5.75
L-index

#	Paper	IF	Citations
102	Nitrogen fixation: a poorly understood process along the freshwater-marine continuum.. <i>Limnology and Oceanography Letters</i> , 2022 , 7, 1-10	7.9	1
101	Evidence, causes, and consequences of declining nitrogen availability in terrestrial ecosystems.. <i>Science</i> , 2022 , 376, eabh3767	33.3	5
100	Marine macroalgae are an overlooked sink of Si in coastal systems. <i>New Phytologist</i> , 2021 ,	9.8	0
99	A mass spectrometer-based pore-water sampling system for sandy sediments. <i>Limnology and Oceanography: Methods</i> , 2021 , 19, 769	2.6	0
98	Beyond Bioextraction: The Role of Oyster-Mediated Denitrification in Nutrient Management. <i>Environmental Science & Technology</i> , 2021 , 55, 14457-14465	10.3	0
97	Negligible Greenhouse Gas Release from Sediments in Oyster Habitats. <i>Environmental Science & Technology</i> , 2021 , 55, 14225-14233	10.3	1
96	Opportunities and Challenges for Including Oyster-Mediated Denitrification in Nitrogen Management Plans.. <i>Estuaries and Coasts</i> , 2021 , 44, 2041-2055	2.8	4
95	The Role of Marshes in Coastal Nutrient Dynamics and Loss 2021 , 113-154		0
94	Tidal rewetting in salt marshes triggers pulses of nitrous oxide emissions but slows carbon dioxide emission. <i>Soil Biology and Biochemistry</i> , 2021 , 156, 108197	7.5	1
93	Low denitrification rates and variable benthic nutrient fluxes characterize Long Island Sound sediments. <i>Biogeochemistry</i> , 2021 , 154, 37-62	3.8	0
92	High Productivity Makes Mangroves Potentially Important Players in the Tropical Silicon Cycle. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	1
91	Evaluating connections between nitrogen cycling and the macrofauna in native oyster beds in a New England estuary.. <i>Estuaries and Coasts</i> , 2021 , 45, 196-212	2.8	0
90	Promoting inclusive metrics of success and impact to dismantle a discriminatory reward system in science. <i>PLoS Biology</i> , 2021 , 19, e3001282	9.7	23
89	Meta-analysis of oyster impacts on coastal biogeochemistry. <i>Nature Sustainability</i> , 2021 , 4, 261-269	22.1	12
88	The Oligotrophication of Narragansett Bay 2021 , 301-309		
87	Influence of Late Holocene climate on Lake Eggers hydrology, McMurdo Sound. <i>Antarctic Science</i> , 2021 , 33, 217-229	1.7	
86	Methane and Nitrous Oxide Emissions Complicate Coastal Blue Carbon Assessments. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006858	5.9	21

85	Rebuild the Academy: Supporting academic mothers during COVID-19 and beyond. <i>PLoS Biology</i> , 2021 , 19, e3001100	9.7	23
84	A review of how we assess denitrification in oyster habitats and proposed guidelines for future studies. <i>Limnology and Oceanography: Methods</i> , 2021 , 19, 714	2.6	2
83	Coastal silicon cycling amplified by oyster aquaculture. <i>Marine Ecology - Progress Series</i> , 2021 , 673, 29-41	2.6	0
82	The Nitrogen Cycle 2021 , 161-188		1
81	Rebuilding marine life. <i>Nature</i> , 2020 , 580, 39-51	50.4	262
80	Response to concerns and uncertainties relating to methane emissions synthesis for vegetated coastal ecosystems. <i>Global Change Biology</i> , 2020 , 26, e10-e11	11.4	
79	A synthesis of methane emissions from shallow vegetated coastal ecosystems. <i>Global Change Biology</i> , 2020 , 26, 2988-3005	11.4	53
78	A critical review of the $^{15}\text{N}_2$ tracer method to measure diazotrophic production in pelagic ecosystems. <i>Limnology and Oceanography: Methods</i> , 2020 , 18, 129-147	2.6	28
77	Sediment biogeochemistry along an oyster aquaculture chronosequence. <i>Marine Ecology - Progress Series</i> , 2020 , 646, 13-27	2.6	7
76	Seasonal patterns of benthic-pelagic coupling in oyster habitats. <i>Marine Ecology - Progress Series</i> , 2020 , 652, 95-109	2.6	4
75	Ideas and perspectives: A strategic assessment of methane and nitrous oxide measurements in the marine environment. <i>Biogeosciences</i> , 2020 , 17, 5809-5828	4.6	7
74	Greenhouse Gas Concentrations Driven by Microbial Community Structure in Boston Groundwater Wells. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
73	Soil Warming Accelerates Biogeochemical Silica Cycling in a Temperate Forest. <i>Frontiers in Plant Science</i> , 2019 , 10, 1097	6.2	7
72	Estuarine Sediments Exhibit Dynamic and Variable Biogeochemical Responses to Hypoxia. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 737-758	3.7	10
71	Urban groundwater dissolved silica concentrations are elevated due to vertical composition of historic land-filling. <i>Science of the Total Environment</i> , 2019 , 684, 89-95	10.2	2
70	Salt Marsh Greenhouse Gas Fluxes and Microbial Communities Are Not Sensitive to the First Year of Precipitation Change. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 1071-1087	3.7	10
69	Low Greenhouse Gas Emissions from Oyster Aquaculture. <i>Environmental Science & Technology</i> , 2019 , 53, 9118-9127	10.3	27
68	16S rRNA Amplicon Sequencing of Sediment Bacterial Communities in an Oyster Farm in Rhode Island. <i>Microbiology Resource Announcements</i> , 2019 , 8,	1.3	1

67	Nitrogen and phosphorus cycling in the digestive system and shell biofilm of the eastern oyster <i>Crassostrea virginica</i> . <i>Marine Ecology - Progress Series</i> , 2019 , 621, 95-105	2.6	13
66	Greenhouse Gas Emissions From Native and Non-native Oysters. <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8	5
65	Ecological control of nitrite in the upper ocean. <i>Nature Communications</i> , 2018 , 9, 1206	17.4	54
64	Global Carbon Cycling on a Heterogeneous Seafloor. <i>Trends in Ecology and Evolution</i> , 2018 , 33, 96-105	10.9	73
63	The Declining Role of Organic Matter in New England Salt Marshes. <i>Estuaries and Coasts</i> , 2017 , 40, 626-638	6.3	37
62	Opinion: Telepresence is a potentially transformative tool for field science. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4841-4844	11.5	7
61	The effect of evaporation on the erodibility of mudflats in a mesotidal estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2017 , 194, 118-127	2.9	6
60	Fate and Effect of Dissolved Silicon within Wastewater Treatment Effluent. <i>Environmental Science & Technology</i> , 2017 , 51, 7403-7411	10.3	15
59	Winter climate change and fine root biogenic silica in sugar maple trees (<i>Acer saccharum</i>): Implications for silica in the Anthropocene. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 708-715	3.7	12
58	Incomplete tidal restoration may lead to persistent high CH ₄ emission. <i>Ecosphere</i> , 2017 , 8, e01968	3.1	7
57	Low ratios of silica to dissolved nitrogen supplied to rivers arise from agriculture not reservoirs. <i>Ecology Letters</i> , 2016 , 19, 1414-1418	10	14
56	A workflow for reproducing mean benthic gas fluxes. <i>Earth and Space Science</i> , 2016 , 3, 318-325	3.1	5
55	Sediment Nitrogen Fixation: a Call for Re-evaluating Coastal N Budgets. <i>Estuaries and Coasts</i> , 2016 , 39, 1626-1638	2.8	49
54	Urban Dissolved Silica: Quantifying the Role of Groundwater and Runoff in Wastewater Influent. <i>Environmental Science & Technology</i> , 2016 , 50, 54-61	10.3	12
53	Molecular evidence for sediment nitrogen fixation in a temperate New England estuary. <i>PeerJ</i> , 2016 , 4, e1615	3.1	29
52	Sediment Nitrous Oxide Fluxes Are Dominated by Uptake in a Temperate Estuary. <i>Frontiers in Marine Science</i> , 2016 , 3,	4.5	17
51	Directly Measured Denitrification Reveals Oyster Aquaculture and Restored Oyster Reefs Remove Nitrogen at Comparable High Rates. <i>Frontiers in Marine Science</i> , 2016 , 3,	4.5	59
50	A Review of the Emerging Field of Underwater Mass Spectrometry. <i>Frontiers in Marine Science</i> , 2016 , 3,	4.5	16

49	Human appropriation of biogenic silicon [the increasing role of agriculture. <i>Functional Ecology</i> , 2016 , 30, 1331-1339	5.6	50
48	Toward the Geoscience Paper of the Future: Best practices for documenting and sharing research from data to software to provenance. <i>Earth and Space Science</i> , 2016 , 3, 388-415	3.1	90
47	Coastal water column ammonium and nitrite oxidation are decoupled in summer. <i>Estuarine, Coastal and Shelf Science</i> , 2016 , 178, 110-119	2.9	20
46	Whole truths vs. half truths [And a search for clarity in long-term water temperature records. <i>Estuarine, Coastal and Shelf Science</i> , 2015 , 157, A1-A6	2.9	28
45	Ocean Calamities: Delineating the Boundaries between Scientific Evidence and Belief. <i>BioScience</i> , 2015 , 65, 746-747	5.7	2
44	In Memoriam, Scott M. Nixon (1943-2012). <i>Estuaries and Coasts</i> , 2015 , 38, 1123-1125	2.8	
43	Examining the impact of acetylene on N-fixation and the active sediment microbial community. <i>Frontiers in Microbiology</i> , 2015 , 6, 418	5.7	37
42	Reconsidering Ocean Calamities. <i>BioScience</i> , 2015 , 65, 130-139	5.7	46
41	Does elevated CO2 alter silica uptake in trees?. <i>Frontiers in Plant Science</i> , 2014 , 5, 793	6.2	16
40	<i>Spartina alterniflora</i> and invasive <i>Phragmites australis</i> stands have similar greenhouse gas emissions in a New England marsh. <i>Aquatic Botany</i> , 2014 , 116, 83-92	1.8	41
39	Tidal pulsing alters nitrous oxide fluxes in a temperate intertidal mudflat. <i>Ecology</i> , 2014 , 95, 1960-71	4.6	14
38	Benthic metabolism and nutrient regeneration in hydrographically different regions on the inner continental shelf of Southern New England. <i>Estuarine, Coastal and Shelf Science</i> , 2014 , 148, 14-26	2.9	12
37	The relationships among hydrodynamics, sediment distribution, and chlorophyll in a mesotidal estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2014 , 144, 54-64	2.9	36
36	Salt marsh tidal exchange increases residence time of silica in estuaries. <i>Limnology and Oceanography</i> , 2014 , 59, 1203-1212	4.8	13
35	Spatial and historic variability of benthic nitrogen cycling in an anthropogenically impacted estuary. <i>Frontiers in Marine Science</i> , 2014 , 1,	4.5	19
34	Silica uptake by <i>Spartina</i> -evidence of multiple modes of accumulation from salt marshes around the world. <i>Frontiers in Plant Science</i> , 2014 , 5, 186	6.2	21
33	(Nearly) A Decade of Directly Measured Sediment N2 Fluxes: What Can Narragansett Bay Tell Us About the Global Ocean Nitrogen Budget?. <i>Oceanography</i> , 2014 , 27, 184-195	2.3	21
32	First, do no harm. <i>Frontiers in Ecology and the Environment</i> , 2013 , 11, 59-59	5.5	1

31	12.12 Ecogeomorphology of Salt Marshes 2013 , 182-200		8
30	12.13 Ecogeomorphology of Tidal Flats 2013 , 201-220		9
29	Watershed land use alters riverine silica cycling. <i>Biogeochemistry</i> , 2013 , 113, 525-544	3.8	31
28	Nitrogen enrichment increases net silica accumulation in a temperate salt marsh. <i>Limnology and Oceanography</i> , 2013 , 58, 99-111	4.8	21
27	CITATION FOR SCIENTIFIC EXCELLENCE: SCOTT W. NIXON. <i>Limnology and Oceanography Bulletin</i> , 2013 , 22, 20-21	0.9	
26	Evidence and a conceptual model for the co-occurrence of nitrogen fixation and denitrification in heterotrophic marine sediments. <i>Marine Ecology - Progress Series</i> , 2013 , 482, 57-68	2.6	82
25	The eutrophication commandments. <i>Marine Pollution Bulletin</i> , 2012 , 64, 1997-9	6.7	12
24	Net sediment N ₂ fluxes in a southern New England estuary: variations in space and time. <i>Biogeochemistry</i> , 2012 , 111, 111-124	3.8	22
23	Human activities directly alter watershed dissolved silica fluxes. <i>Biogeochemistry</i> , 2012 , 111, 125-138	3.8	73
22	Directly measured net denitrification rates in offshore New England sediments. <i>Continental Shelf Research</i> , 2012 , 45, 78-86	2.4	18
21	The terrestrial silica pump. <i>PLoS ONE</i> , 2012 , 7, e52932	3.7	92
20	Ecological footprints and shadows in an urban estuary, Narragansett Bay, RI (USA). <i>Regional Environmental Change</i> , 2012 , 12, 381-394	4.3	19
19	Impacts of long-term fertilization on salt marsh tidal creek benthic nutrient and N ₂ gas fluxes. <i>Marine Ecology - Progress Series</i> , 2012 , 471, 11-22	2.6	23
18	The ebb and flood of Silica: Quantifying dissolved and biogenic silica fluxes from a temperate salt marsh. <i>Estuarine, Coastal and Shelf Science</i> , 2011 , 95, 415-423	2.9	25
17	Effects of freshwater input on nutrient loading, phytoplankton biomass, and cyanotoxin production in an oligohaline estuarine lake. <i>Hydrobiologia</i> , 2011 , 661, 377-389	2.4	41
16	Assessing the Role of pH in Determining Water Column Nitrification Rates in a Coastal System. <i>Estuaries and Coasts</i> , 2011 , 34, 1095-1102	2.8	23
15	Variation among Estuarine Geochemistry and Productivity 2011 , 87-98		
14	Denitrification in coastal Louisiana: A spatial assessment and research needs. <i>Journal of Sea Research</i> , 2010 , 63, 157-172	1.9	45

13	Spatial and Temporal Variability of Benthic Oxygen Demand and Nutrient Regeneration in an Anthropogenically Impacted New England Estuary. <i>Estuaries and Coasts</i> , 2010 , 33, 1377-1390	2.8	38
12	Microbiology. Fantastic fixers. <i>Science</i> , 2009 , 326, 377-8	33.3	6
11	The impact of changing climate on phenology, productivity, and benthic-pelagic coupling in Narragansett Bay. <i>Estuarine, Coastal and Shelf Science</i> , 2009 , 82, 1-18	2.9	136
10	Responses of benthic-pelagic coupling to climate change in a temperate estuary. <i>Hydrobiologia</i> , 2009 , 629, 147-156	2.4	35
9	Modeling denitrification in aquatic sediments. <i>Biogeochemistry</i> , 2009 , 93, 159-178	3.8	87
8	Challenges to incorporating spatially and temporally explicit phenomena (hotspots and hot moments) in denitrification models. <i>Biogeochemistry</i> , 2009 , 93, 49-77	3.8	465
7	Mississippi River flood of 2008: observations of a large freshwater diversion on physical, chemical, and biological characteristics of a shallow estuarine lake. <i>Environmental Science & Technology</i> , 2009 , 43, 5599-604	10.3	66
6	Responses of benthic-pelagic coupling to climate change in a temperate estuary 2009 , 147-156		8
5	Net Sediment N ₂ Fluxes in a Coastal Marine System: Experimental Manipulations and a Conceptual Model. <i>Ecosystems</i> , 2008 , 11, 1168-1180	3.9	44
4	Nitrogen and Phosphorus Inputs to Narragansett Bay: Past, Present, and Future 2008 , 101-175		35
3	Reversal of the net dinitrogen gas flux in coastal marine sediments. <i>Nature</i> , 2007 , 448, 180-2	50.4	153
2	Terrestrial vegetation and the seasonal cycle of dissolved silica in a southern New England coastal river. <i>Biogeochemistry</i> , 2005 , 74, 115-130	3.8	69
1	Export of Nitrogen, Phosphorus, and Suspended Solids from a Southern New England Watershed to Little Narragansett Bay. <i>Biogeochemistry</i> , 2005 , 76, 567-593	3.8	20