

# Robinson Fulweiler

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7598376/robinson-fulweiler-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Challenges to incorporating spatially and temporally explicit phenomena (hotspots and hot moments) in denitrification models. <i>Biogeochemistry</i> , <b>2009</b> , 93, 49-77	3.8	465
101	Rebuilding marine life. <i>Nature</i> , <b>2020</b> , 580, 39-51	50.4	262
100	Reversal of the net dinitrogen gas flux in coastal marine sediments. <i>Nature</i> , <b>2007</b> , 448, 180-2	50.4	153
99	The impact of changing climate on phenology, productivity, and benthic-pelagic coupling in Narragansett Bay. <i>Estuarine, Coastal and Shelf Science</i> , <b>2009</b> , 82, 1-18	2.9	136
98	The terrestrial silica pump. <i>PLoS ONE</i> , <b>2012</b> , 7, e52932	3.7	92
97	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> , <b>2016</b> , 3, 388-415	3.1	90
96	Modeling denitrification in aquatic sediments. <i>Biogeochemistry</i> , <b>2009</b> , 93, 159-178	3.8	87
95	Evidence and a conceptual model for the co-occurrence of nitrogen fixation and denitrification in heterotrophic marine sediments. <i>Marine Ecology - Progress Series</i> , <b>2013</b> , 482, 57-68	2.6	82
94	Human activities directly alter watershed dissolved silica fluxes. <i>Biogeochemistry</i> , <b>2012</b> , 111, 125-138	3.8	73
93	Global Carbon Cycling on a Heterogeneous Seafloor. <i>Trends in Ecology and Evolution</i> , <b>2018</b> , 33, 96-105	10.9	73
92	Terrestrial vegetation and the seasonal cycle of dissolved silica in a southern New England coastal river. <i>Biogeochemistry</i> , <b>2005</b> , 74, 115-130	3.8	69
91	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 &amp; Technology</i> , <b>2009</b> , 43, 5599-604	10.3	66
90	Directly Measured Denitrification Reveals Oyster Aquaculture and Restored Oyster Reefs Remove Nitrogen at Comparable High Rates. <i>Frontiers in Marine Science</i> , <b>2016</b> , 3,	4.5	59
89	Ecological control of nitrite in the upper ocean. <i>Nature Communications</i> , <b>2018</b> , 9, 1206	17.4	54
88	A synthesis of methane emissions from shallow vegetated coastal ecosystems. <i>Global Change Biology</i> , <b>2020</b> , 26, 2988-3005	11.4	53
87	Human appropriation of biogenic silicon [The increasing role of agriculture. <i>Functional Ecology</i> , <b>2016</b> , 30, 1331-1339	5.6	50
86	Sediment Nitrogen Fixation: a Call for Re-evaluating Coastal N Budgets. <i>Estuaries and Coasts</i> , <b>2016</b> , 39, 1626-1638	2.8	49

85	Reconsidering Ocean Calamities. <i>BioScience</i> , <b>2015</b> , 65, 130-139	5.7	46
84	Denitrification in coastal Louisiana: A spatial assessment and research needs. <i>Journal of Sea Research</i> , <b>2010</b> , 63, 157-172	1.9	45
83	Net Sediment N <sub>2</sub> Fluxes in a Coastal Marine System Experimental Manipulations and a Conceptual Model. <i>Ecosystems</i> , <b>2008</b> , 11, 1168-1180	3.9	44
82	<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> , <b>2014</b> , 116, 83-92	1.8	41
81	Effects of freshwater input on nutrient loading, phytoplankton biomass, and cyanotoxin production in an oligohaline estuarine lake. <i>Hydrobiologia</i> , <b>2011</b> , 661, 377-389	2.4	41
80	Spatial and Temporal Variability of Benthic Oxygen Demand and Nutrient Regeneration in an Anthropogenically Impacted New England Estuary. <i>Estuaries and Coasts</i> , <b>2010</b> , 33, 1377-1390	2.8	38
79	The Declining Role of Organic Matter in New England Salt Marshes. <i>Estuaries and Coasts</i> , <b>2017</b> , 40, 626-638	3.8	37
78	Examining the impact of acetylene on N-fixation and the active sediment microbial community. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 418	5.7	37
77	The relationships among hydrodynamics, sediment distribution, and chlorophyll in a mesotidal estuary. <i>Estuarine, Coastal and Shelf Science</i> , <b>2014</b> , 144, 54-64	2.9	36
76	Responses of benthic-pelagic coupling to climate change in a temperate estuary. <i>Hydrobiologia</i> , <b>2009</b> , 629, 147-156	2.4	35
75	Nitrogen and Phosphorus Inputs to Narragansett Bay: Past, Present, and Future <b>2008</b> , 101-175		35
74	Watershed land use alters riverine silica cycling. <i>Biogeochemistry</i> , <b>2013</b> , 113, 525-544	3.8	31
73	Molecular evidence for sediment nitrogen fixation in a temperate New England estuary. <i>PeerJ</i> , <b>2016</b> , 4, e1615	3.1	29
72	Whole truths vs. half truths And a search for clarity in long-term water temperature records. <i>Estuarine, Coastal and Shelf Science</i> , <b>2015</b> , 157, A1-A6	2.9	28
71	A critical review of the <sup>15</sup> N <sub>2</sub> tracer method to measure diazotrophic production in pelagic ecosystems. <i>Limnology and Oceanography: Methods</i> , <b>2020</b> , 18, 129-147	2.6	28
70	Low Greenhouse Gas Emissions from Oyster Aquaculture. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 9118-9127	10.3	27
69	The ebb and flood of Silica: Quantifying dissolved and biogenic silica fluxes from a temperate salt marsh. <i>Estuarine, Coastal and Shelf Science</i> , <b>2011</b> , 95, 415-423	2.9	25
68	Assessing the Role of pH in Determining Water Column Nitrification Rates in a Coastal System. <i>Estuaries and Coasts</i> , <b>2011</b> , 34, 1095-1102	2.8	23

67	Impacts of long-term fertilization on salt marsh tidal creek benthic nutrient and N <sub>2</sub> gas fluxes. <i>Marine Ecology - Progress Series</i> , <b>2012</b> , 471, 11-22	2.6	23
66	Promoting inclusive metrics of success and impact to dismantle a discriminatory reward system in science. <i>PLoS Biology</i> , <b>2021</b> , 19, e3001282	9.7	23
65	Rebuild the Academy: Supporting academic mothers during COVID-19 and beyond. <i>PLoS Biology</i> , <b>2021</b> , 19, e3001100	9.7	23
64	Net sediment N <sub>2</sub> fluxes in a southern New England estuary: variations in space and time. <i>Biogeochemistry</i> , <b>2012</b> , 111, 111-124	3.8	22
63	Silica uptake by <i>Spartina</i> -evidence of multiple modes of accumulation from salt marshes around the world. <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 186	6.2	21
62	Nitrogen enrichment increases net silica accumulation in a temperate salt marsh. <i>Limnology and Oceanography</i> , <b>2013</b> , 58, 99-111	4.8	21
61	(Nearly) A Decade of Directly Measured Sediment N <sub>2</sub> Fluxes: What Can Narragansett Bay Tell Us About the Global Ocean Nitrogen Budget?. <i>Oceanography</i> , <b>2014</b> , 27, 184-195	2.3	21
60	Methane and Nitrous Oxide Emissions Complicate Coastal Blue Carbon Assessments. <i>Global Biogeochemical Cycles</i> , <b>2021</b> , 35, e2020GB006858	5.9	21
59	Export of Nitrogen, Phosphorus, and Suspended Solids from a Southern New England Watershed to Little Narragansett Bay. <i>Biogeochemistry</i> , <b>2005</b> , 76, 567-593	3.8	20
58	Coastal water column ammonium and nitrite oxidation are decoupled in summer. <i>Estuarine, Coastal and Shelf Science</i> , <b>2016</b> , 178, 110-119	2.9	20
57	Spatial and historic variability of benthic nitrogen cycling in an anthropogenically impacted estuary. <i>Frontiers in Marine Science</i> , <b>2014</b> , 1,	4.5	19
56	Ecological footprints and shadows in an urban estuary, Narragansett Bay, RI (USA). <i>Regional Environmental Change</i> , <b>2012</b> , 12, 381-394	4.3	19
55	Directly measured net denitrification rates in offshore New England sediments. <i>Continental Shelf Research</i> , <b>2012</b> , 45, 78-86	2.4	18
54	Sediment Nitrous Oxide Fluxes Are Dominated by Uptake in a Temperate Estuary. <i>Frontiers in Marine Science</i> , <b>2016</b> , 3,	4.5	17
53	Does elevated CO <sub>2</sub> alter silica uptake in trees?. <i>Frontiers in Plant Science</i> , <b>2014</b> , 5, 793	6.2	16
52	A Review of the Emerging Field of Underwater Mass Spectrometry. <i>Frontiers in Marine Science</i> , <b>2016</b> , 3,	4.5	16
51	Fate and Effect of Dissolved Silicon within Wastewater Treatment Effluent. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 7403-7411	10.3	15
50	Low ratios of silica to dissolved nitrogen supplied to rivers arise from agriculture not reservoirs. <i>Ecology Letters</i> , <b>2016</b> , 19, 1414-1418	10	14

49	Tidal pulsing alters nitrous oxide fluxes in a temperate intertidal mudflat. <i>Ecology</i> , <b>2014</b> , 95, 1960-71	4.6	14
48	Salt marsh tidal exchange increases residence time of silica in estuaries. <i>Limnology and Oceanography</i> , <b>2014</b> , 59, 1203-1212	4.8	13
47	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> , <b>2019</b> , 621, 95-105	2.6	13
46	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> , <b>2017</b> , 122, 708-715	3.7	12
45	Urban Dissolved Silica: Quantifying the Role of Groundwater and Runoff in Wastewater Influent. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 54-61	10.3	12
44	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> , <b>2014</b> , 148, 14-26	2.9	12
43	The eutrophication commandments. <i>Marine Pollution Bulletin</i> , <b>2012</b> , 64, 1997-9	6.7	12
42	Meta-analysis of oyster impacts on coastal biogeochemistry. <i>Nature Sustainability</i> , <b>2021</b> , 4, 261-269	22.1	12
41	Estuarine Sediments Exhibit Dynamic and Variable Biogeochemical Responses to Hypoxia. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 737-758	3.7	10
40	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> , <b>2019</b> , 124, 1071-1087	3.7	10
39	12.13 Ecogeomorphology of Tidal Flats <b>2013</b> , 201-220		9
38	12.12 Ecogeomorphology of Salt Marshes <b>2013</b> , 182-200		8
37	Responses of benthic-pelagic coupling to climate change in a temperate estuary <b>2009</b> , 147-156		8
36	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> , <b>2017</b> , 114, 4841-4844	11.5	7
35	Soil Warming Accelerates Biogeochemical Silica Cycling in a Temperate Forest. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1097	6.2	7
34	Incomplete tidal restoration may lead to persistent high CH4 emission. <i>Ecosphere</i> , <b>2017</b> , 8, e01968	3.1	7
33	Sediment biogeochemistry along an oyster aquaculture chronosequence. <i>Marine Ecology - Progress Series</i> , <b>2020</b> , 646, 13-27	2.6	7
32	Ideas and perspectives: A strategic assessment of methane and nitrous oxide measurements in the marine environment. <i>Biogeosciences</i> , <b>2020</b> , 17, 5809-5828	4.6	7

31	The effect of evaporation on the erodibility of mudflats in a mesotidal estuary. <i>Estuarine, Coastal and Shelf Science</i> , <b>2017</b> , 194, 118-127	2.9	6
30	Microbiology. Fantastic fixers. <i>Science</i> , <b>2009</b> , 326, 377-8	33.3	6
29	A workflow for reproducing mean benthic gas fluxes. <i>Earth and Space Science</i> , <b>2016</b> , 3, 318-325	3.1	5
28	Greenhouse Gas Emissions From Native and Non-native Oysters. <i>Frontiers in Environmental Science</i> , <b>2019</b> , 7,	4.8	5
27	Evidence, causes, and consequences of declining nitrogen availability in terrestrial ecosystems.. <i>Science</i> , <b>2022</b> , 376, eabh3767	33.3	5
26	Seasonal patterns of benthic-pelagic coupling in oyster habitats. <i>Marine Ecology - Progress Series</i> , <b>2020</b> , 652, 95-109	2.6	4
25	Opportunities and Challenges for Including Oyster-Mediated Denitrification in Nitrogen Management Plans.. <i>Estuaries and Coasts</i> , <b>2021</b> , 44, 2041-2055	2.8	4
24	Urban groundwater dissolved silica concentrations are elevated due to vertical composition of historic land-filling. <i>Science of the Total Environment</i> , <b>2019</b> , 684, 89-95	10.2	2
23	Ocean Calamities: Delineating the Boundaries between Scientific Evidence and Belief. <i>BioScience</i> , <b>2015</b> , 65, 746-747	5.7	2
22	A review of how we assess denitrification in oyster habitats and proposed guidelines for future studies. <i>Limnology and Oceanography: Methods</i> , <b>2021</b> , 19, 714	2.6	2
21	First, do no harm. <i>Frontiers in Ecology and the Environment</i> , <b>2013</b> , 11, 59-59	5.5	1
20	16S rRNA Amplicon Sequencing of Sediment Bacterial Communities in an Oyster Farm in Rhode Island. <i>Microbiology Resource Announcements</i> , <b>2019</b> , 8,	1.3	1
19	Negligible Greenhouse Gas Release from Sediments in Oyster Habitats. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 14225-14233	10.3	1
18	Nitrogen fixation: a poorly understood process along the freshwater-marine continuum.. <i>Limnology and Oceanography Letters</i> , <b>2022</b> , 7, 1-10	7.9	1
17	Tidal rewetting in salt marshes triggers pulses of nitrous oxide emissions but slows carbon dioxide emission. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 156, 108197	7.5	1
16	High Productivity Makes Mangroves Potentially Important Players in the Tropical Silicon Cycle. <i>Frontiers in Marine Science</i> , <b>2021</b> , 8,	4.5	1
15	The Nitrogen Cycle <b>2021</b> , 161-188		1
14	Marine macroalgae are an overlooked sink of Si in coastal systems. <i>New Phytologist</i> , <b>2021</b> ,	9.8	0

13	A mass spectrometer-based pore-water sampling system for sandy sediments. <i>Limnology and Oceanography: Methods</i> , <b>2021</b> , 19, 769	2.6	o
12	Beyond Bioextraction: The Role of Oyster-Mediated Denitrification in Nutrient Management. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 14457-14465	10.3	o
11	The Role of Marshes in Coastal Nutrient Dynamics and Loss <b>2021</b> , 113-154		o
10	Low denitrification rates and variable benthic nutrient fluxes characterize Long Island Sound sediments. <i>Biogeochemistry</i> , <b>2021</b> , 154, 37-62	3.8	o
9	Evaluating connections between nitrogen cycling and the macrofauna in native oyster beds in a New England estuary.. <i>Estuaries and Coasts</i> , <b>2021</b> , 45, 196-212	2.8	o
8	Coastal silicon cycling amplified by oyster aquaculture. <i>Marine Ecology - Progress Series</i> , <b>2021</b> , 673, 29-41	2.6	o
7	In Memoriam, Scott M. Nixon (1943-2012). <i>Estuaries and Coasts</i> , <b>2015</b> , 38, 1123-1125	2.8	
6	Response to concerns and uncertainties relating to methane emissions synthesis for vegetated coastal ecosystems. <i>Global Change Biology</i> , <b>2020</b> , 26, e10-e11	11.4	
5	CITATION FOR SCIENTIFIC EXCELLENCE: SCOTT W. NIXON. <i>Limnology and Oceanography Bulletin</i> , <b>2013</b> , 22, 20-21	0.9	
4	Variation among Estuarine Geochemistry and Productivity <b>2011</b> , 87-98		
3	Greenhouse Gas Concentrations Driven by Microbial Community Structure in Boston Groundwater Wells. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
2	The Oligotrophication of Narragansett Bay <b>2021</b> , 301-309		
1	Influence of Late Holocene climate on Lake Eggers hydrology, McMurdo Sound. <i>Antarctic Science</i> , <b>2021</b> , 33, 217-229	1.7	