

# Hannah K Marchant

## List of Publications by Citations

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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.

28  
papers

1,713  
citations

14  
h-index

28  
g-index

28  
ext. papers

2,628  
ext. citations

9.1  
avg. IF

5.64  
L-index

#	Paper	IF	Citations
28	The microbial nitrogen-cycling network. <i>Nature Reviews Microbiology</i> , <b>2018</b> , 16, 263-276	22.2	1030
27	Anammox, denitrification and dissimilatory nitrate reduction to ammonium in the East China Sea sediment. <i>Biogeosciences</i> , <b>2013</b> , 10, 6851-6864	4.6	88
26	Denitrifying community in coastal sediments performs aerobic and anaerobic respiration simultaneously. <i>ISME Journal</i> , <b>2017</b> , 11, 1799-1812	11.9	73
25	Coupled nitrification-denitrification leads to extensive N loss in subtidal permeable sediments. <i>Limnology and Oceanography</i> , <b>2016</b> , 61, 1033-1048	4.8	67
24	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. <i>Nature Microbiology</i> , <b>2019</b> , 4, 234-243	26.6	55
23	The fate of nitrate in intertidal permeable sediments. <i>PLoS ONE</i> , <b>2014</b> , 9, e104517	3.7	51
22	Seasonal oxygen, nitrogen and phosphorus benthic cycling along an impacted Baltic Sea estuary: regulation and spatial patterns. <i>Biogeochemistry</i> , <b>2014</b> , 119, 139-160	3.8	49
21	Bloom of a denitrifying methanotroph, <i>Candidatus Methylomirabilis limnetica</i> in a deep stratified lake. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 2598-2614	5.2	46
20	Simple approach for the preparation of (15-15)N <sub>2</sub> -enriched water for nitrogen fixation assessments: evaluation, application and recommendations. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 769	5.7	39
19	Short-term exposure to hypercapnia does not compromise feeding, acid-base balance or respiration of <i>Patella vulgata</i> but surprisingly is accompanied by radula damage. <i>Journal of the Marine Biological Association of the United Kingdom</i> , <b>2010</b> , 90, 1379-1384	1.1	33
18	Single cell analyses reveal contrasting life strategies of the two main nitrifiers in the ocean. <i>Nature Communications</i> , <b>2020</b> , 11, 767	17.4	29
17	High rates of microbial dinitrogen fixation and sulfate reduction associated with the Mediterranean seagrass <i>Posidonia oceanica</i> . <i>Systematic and Applied Microbiology</i> , <b>2016</b> , 39, 476-483	4.2	24
16	Defences against oxidative stress in vibrios associated with corals. <i>FEMS Microbiology Letters</i> , <b>2008</b> , 281, 58-63	2.9	23
15	Metabolic specialization of denitrifiers in permeable sediments controls N <sub>2</sub> O emissions. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 4486-4502	5.2	14
14	The effect of sediment grain properties and porewater flow on microbial abundance and respiration in permeable sediments. <i>Scientific Reports</i> , <b>2020</b> , 10, 3573	4.9	13
13	High single-cell diversity in carbon and nitrogen assimilations by a chain-forming diatom across a century. <i>Environmental Microbiology</i> , <b>2019</b> , 21, 142-151	5.2	11
12	Seasonality of Organic Matter Degradation Regulates Nutrient and Metal Net Fluxes in a High Energy Sandy Beach. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2020</b> , 125, e2019JG005399	3.7	11

11	Carbon and nitrogen turnover in the Arctic deep sea: in situ benthic community response to diatom and coccolithophorid phytodetritus. <i>Biogeosciences</i> , <b>2018</b> , 15, 6537-6557	4.6	10
10	Response of benthic nitrogen cycling to estuarine hypoxia. <i>Limnology and Oceanography</i> , <b>2021</b> , 66, 652-668	8	
9	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
8	Small sinking particles control anammox rates in the Peruvian oxygen minimum zone. <i>Nature Communications</i> , <b>2021</b> , 12, 3235	17.4	7
7	Recent advances in marine N-cycle studies using N labeling methods. <i>Current Opinion in Biotechnology</i> , <b>2016</b> , 41, 53-59	11.4	6
6	Rapid microbial diversification of dissolved organic matter in oceanic surface waters leads to carbon sequestration. <i>Scientific Reports</i> , <b>2020</b> , 10, 13025	4.9	6
5	Sulfide alters microbial functional potential in a methane and nitrogen cycling biofilm reactor. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 1481-1495	5.2	5
4	Nitrate respiration and diel migration patterns of diatoms are linked in sediments underneath a microbial mat. <i>Environmental Microbiology</i> , <b>2021</b> , 23, 1422-1435	5.2	4
3	Purple sulfur bacteria fix N via molybdenum-nitrogenase in a low molybdenum Proterozoic ocean analogue. <i>Nature Communications</i> , <b>2021</b> , 12, 4774	17.4	3
2	Terrestrial-type nitrogen-fixing symbiosis between seagrass and a marine bacterium. <i>Nature</i> , <b>2021</b> , 600, 105-109	50.4	1
1	Advection Drives Nitrate Past the Microphytobenthos in Intertidal Sands, Fueling Deeper Denitrification. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 556268	5.7	