

Nicole J Poulton

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

5,192
citations

147801

31
h-index

233421

45
g-index

48
all docs

48
docs citations

48
times ranked

7028
citing authors

#	ARTICLE	IF	CITATIONS
1	Marine DNA Viral Macro- and Microdiversity from Pole to Pole. <i>Cell</i> , 2019, 177, 1109-1123.e14.	28.9	541
2	Potential for Chemolithoautotrophy Among Ubiquitous Bacteria Lineages in the Dark Ocean. <i>Science</i> , 2011, 333, 1296-1300.	12.6	510
3	Prevalent genome streamlining and latitudinal divergence of planktonic bacteria in the surface ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11463-11468.	7.1	328
4	Global Trends in Marine Plankton Diversity across Kingdoms of Life. <i>Cell</i> , 2019, 179, 1084-1097.e21.	28.9	271
5	Gene Expression Changes and Community Turnover Differentially Shape the Global Ocean Metatranscriptome. <i>Cell</i> , 2019, 179, 1068-1083.e21.	28.9	268
6	Obtaining genomes from uncultivated environmental microorganisms using FACS-based single-cell genomics. <i>Nature Protocols</i> , 2014, 9, 1038-1048.	12.0	243
7	Capturing Single Cell Genomes of Active Polysaccharide Degraders: An Unexpected Contribution of Verrucomicrobia. <i>PLoS ONE</i> , 2012, 7, e35314.	2.5	236
8	Phylogenetic Diversity and Specificity of Bacteria Closely Associated with <i>Alexandrium</i> spp. and Other Phytoplankton. <i>Applied and Environmental Microbiology</i> , 2005, 71, 3483-3494.	3.1	198
9	The ocean sampling day consortium. <i>GigaScience</i> , 2015, 4, 27.	6.4	185
10	Accumulation and enhanced cycling of polyphosphate by Sargasso Sea plankton in response to low phosphorus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8089-8094.	7.1	172
11	Improved genome recovery and integrated cell-size analyses of individual uncultured microbial cells and viral particles. <i>Nature Communications</i> , 2017, 8, 84.	12.8	169
12	High-throughput single-cell sequencing identifies photoheterotrophs and chemoautotrophs in freshwater bacterioplankton. <i>ISME Journal</i> , 2012, 6, 113-123.	9.8	168
13	Charting the Complexity of the Marine Microbiome through Single-Cell Genomics. <i>Cell</i> , 2019, 179, 1623-1635.e11.	28.9	158
14	Viral to metazoan marine plankton nucleotide sequences from the Tara Oceans expedition. <i>Scientific Data</i> , 2017, 4, 170093.	5.3	147
15	Rokubacteria: Genomic Giants among the Uncultured Bacterial Phyla. <i>Frontiers in Microbiology</i> , 2017, 8, 2264.	3.5	142
16	Unveiling <i>in situ</i> interactions between marine protists and bacteria through single cell sequencing. <i>ISME Journal</i> , 2012, 6, 703-707.	9.8	124
17	Cryptic and abundant marine viruses at the evolutionary origins of Earth's RNA virome. <i>Science</i> , 2022, 376, 156-162.	12.6	124
18	Single-cell genomics of multiple uncultured stramenopiles reveals underestimated functional diversity across oceans. <i>Nature Communications</i> , 2018, 9, 310.	12.8	101

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19	Genomic and Metabolic Diversity of Marine Group I Thaumarchaeota in the Mesopelagic of Two Subtropical Gyres. <i>PLoS ONE</i> , 2014, 9, e95380.	2.5	95
20	Distribution of planktonic aerobic anoxygenic photoheterotrophic bacteria in the northwest Atlantic. <i>Limnology and Oceanography</i> , 2006, 51, 38-46.	3.1	93
21	Capturing diversity of marine heterotrophic protists: one cell at a time. <i>ISME Journal</i> , 2011, 5, 674-684.	9.8	86
22	What's New Is Old: Resolving the Identity of <i>Leptothrix ochracea</i> Using Single Cell Genomics, Pyrosequencing and FISH. <i>PLoS ONE</i> , 2011, 6, e17769.	2.5	85
23	Counting heterotrophic nanoplanktonic protists in cultures and aquatic communities by flow cytometry. <i>Aquatic Microbial Ecology</i> , 2004, 34, 263-277.	1.8	84
24	A simple optical index shows spatial and temporal heterogeneity in phytoplankton community composition during the 2008 North Atlantic Bloom Experiment. <i>Biogeosciences</i> , 2015, 12, 2179-2194.	3.3	78
25	Imaging flow cytometry for phytoplankton analysis. <i>Methods</i> , 2017, 112, 188-200.	3.8	76
26	Single cell genome analysis supports a link between phagotrophy and primary plastid endosymbiosis. <i>Scientific Reports</i> , 2012, 2, 356.	3.3	62
27	Ancestral Absence of Electron Transport Chains in Patescibacteria and DPANN. <i>Frontiers in Microbiology</i> , 2020, 11, 1848.	3.5	62
28	Compendium of 530 metagenome-assembled bacterial and archaeal genomes from the polar Arctic Ocean. <i>Nature Microbiology</i> , 2021, 6, 1561-1574.	13.3	57
29	Toxin variability in natural populations of <i>Alexandrium fundyense</i> in Casco Bay, Maine—evidence of nitrogen limitation. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 2501-2521.	1.4	40
30	Genomic exploration of individual giant ocean viruses. <i>ISME Journal</i> , 2017, 11, 1736-1745.	9.8	40
31	Anatomy of a red tide bloom off the southwest coast of Florida. <i>Harmful Algae</i> , 2008, 7, 817-826.	4.8	36
32	FlowCam: Quantification and Classification of Phytoplankton by Imaging Flow Cytometry. <i>Methods in Molecular Biology</i> , 2016, 1389, 237-247.	0.9	32
33	Single Cell Genomics Reveals Viruses Consumed by Marine Protists. <i>Frontiers in Microbiology</i> , 2020, 11, 524828.	3.5	26
34	Automated Isolation Techniques for Microalgae. , 2005, , 101-116.		26
35	Targeted Sorting of Single Virus-Infected Cells of the Coccolithophore <i>Emiliania huxleyi</i> . <i>PLoS ONE</i> , 2011, 6, e22520.	2.5	23
36	Temporal dynamics of eukaryotic microbial diversity at a coastal Pacific site. <i>ISME Journal</i> , 2018, 12, 2278-2291.	9.8	19

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37	Characterizing the phytoplankton soup: pump and plumbing effects on the particle assemblage in underway optical seawater systems. <i>Optics Express</i> , 2016, 24, 20703.	3.4	18
38	Best practices in plant cytometry. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2021, 99, 311-317.	1.5	16
39	Radiometric approach for the detection of picophytoplankton assemblages across oceanic fronts. <i>Optics Express</i> , 2020, 28, 25682.	3.4	12
40	Single cell ecogenomics reveals mating types of individual cells and ssDNA viral infections in the smallest photosynthetic eukaryotes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190089.	4.0	11
41	Zooplankton grazing and egestion shifts particle size distribution in natural communities. <i>Marine Ecology - Progress Series</i> , 2017, 575, 43-56.	1.9	8
42	Lighting up phytoplankton cells with quantum dots. <i>Limnology and Oceanography: Methods</i> , 2008, 6, 653-658.	2.0	4
43	Inter-laboratory validation of the serial dilution culture "most probable number method for enumerating viable phytoplankton. <i>Journal of Applied Phycology</i> , 2019, 31, 491-503.	2.8	3
44	Genome to phenome tools: In vivo and in vitro transfection of <i>Crassostrea virginica</i> hemocytes. <i>Fish and Shellfish Immunology</i> , 2020, 103, 438-441.	3.6	3
45	Oceanic Crustal Fluid Single Cell Genomics Complements Metagenomic and Metatranscriptomic Surveys With Orders of Magnitude Less Sample Volume. <i>Frontiers in Microbiology</i> , 2021, 12, 738231.	3.5	1