John P Mccrow

List of Publications by Year
in descending order

34 papers	2,954 citations	331670 21 h-index	377865 34 g-index
39 all docs	39 docs citations	39 times ranked	4198 citing authors

#	Article	IF	Citations
1	Evolution and metabolic significance of the urea cycle in photosynthetic diatoms. Nature, 2011, 473, 203-207.	27.8	453
2	Genomic and functional adaptation in surface ocean planktonic prokaryotes. Nature, 2010, 468, 60-66.	27.8	280
3	Targeted metagenomics and ecology of globally important uncultured eukaryotic phytoplankton. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14679-14684.	7.1	257
4	Phytoplanktonâ€“bacterial interactions mediate micronutrient colimitation at the coastal Antarctic sea ice edge. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9938-9943.	7.1	202
5	Functional Tradeoffs Underpin Salinity-Driven Divergence in Microbial Community Composition. PLoS ONE, 2014, 9, e89549.	2.5	184
6	Transcriptional Orchestration of the Global Cellular Response of a Model Pennate Diatom to Diel Light Cycling under Iron Limitation. PLoS Genetics, 2016, 12, e1006490.	3.5	129
7	Biosynthesis of the neurotoxin domoic acid in a bloom-forming diatom. Science, 2018, 361, 1356-1358.	12.6	124
8	Influence of nutrients and currents on the genomic composition of microbes across an upwelling mosaic. ISME Journal, 2012, 6, 1403-1414.	9.8	120
9	Evolution and regulation of nitrogen flux through compartmentalized metabolic networks in a marine diatom. Nature Communications, 2019, 10, 4552.	12.8	116
10	Metagenomic Exploration of Viruses throughout the Indian Ocean. PLoS ONE, 2012, 7, e42047.	2.5	113
11	Genomes and gene expression across light and productivity gradients in eastern subtropical Pacific microbial communities. ISME Journal, 2015, 9, 1076-1092.	9.8	108
12	Carbonate-sensitive phytotransferrin controls high-affinity iron uptake in diatoms. Nature, 2018, 555, 534-537.	27.8	106
13	Nitrate Reductase Knockout Uncouples Nitrate Transport from Nitrate Assimilation and Drives Repartitioning of Carbon Flux in a Model Pennate Diatom. Plant Cell, 2017, 29, 2047-2070.	6.6	102
14	Genome and methylome of the oleaginous diatom Cyclotella cryptica reveal genetic flexibility toward a high lipid phenotype. Biotechnology for Biofuels, 2016, 9, 258.	6.2	87
15	The Baltic Sea Virome: Diversity and Transcriptional Activity of DNA and RNA Viruses. MSystems, 2017, 2, .	3.8	80
16	Tracking the rise of eukaryotes to ecological dominance with zinc isotopes. Geobiology, 2018, 16, 341-352.	2.4	65
17	Silicon limitation facilitates virus infection and mortality of marine diatoms. Nature Microbiology, 2019, 4, 1790-1797.	13.3	64
18	Genetic Manipulation of Competition for Nitrate between Heterotrophic Bacteria and Diatoms. Frontiers in Microbiology, 2016, 7, 880.	3.5	55

#	Article	IF	Citations
19	Dinoflagellates alter their carbon and nutrient metabolic strategies across environmental gradients in the central Pacific Ocean. Nature Microbiology, 2021, 6, 173-186.	13.3	45
20	Colony formation in <i>Phaeocystis antarctica</i>: connecting molecular mechanisms with iron biogeochemistry. Biogeosciences, 2018, 15, 4923-4942.	3.3	44
21	Diversity and Expression of Bacterial Metacaspases in an Aquatic Ecosystem. Frontiers in Microbiology, 2016, 7, 1043.	3.5	37
22	Spectrum of mitochondrial genomic variation and associated clinical presentation of prostate cancer in South African men. Prostate, 2016, 76, 349-358.	2.3	26
23	Contrasting effects of copper limitation on the photosynthetic apparatus in two strains of the open ocean diatom Thalassiosira oceanica. PLoS ONE, 2017, 12, e0181753.	2.5	24
24	Molecular underpinnings and biogeochemical consequences of enhanced diatom growth in a warming Southern Ocean. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
25	Patterns of Transcript Abundance of Eukaryotic Biogeochemically-Relevant Genes in the Amazon River Plume. PLoS ONE, 2016, 11, e0160929.	2.5	17
26	Lineage specific gene family enrichment at the microscale in marine systems. Current Opinion in Microbiology, 2013, 16, 605-617.	5.1	16
27	Sierra Nevada mountain lake microbial communities are structured by temperature, resources and geographic location. Molecular Ecology, 2020, 29, 2080-2093.	3.9	14
28	Hydrothermal trace metal release and microbial metabolism in the northeastern Lau Basin of the South Pacific Ocean. Biogeosciences, 2021, 18, 5397-5422.	3.3	11
29	Microbial communities associated with sinking particles across an environmental gradient from coastal upwelling to the oligotrophic ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2022, 179, 103668.	1.4	11
30	Relating sinking and suspended microbial communities in the California Current Ecosystem: digestion resistance and the contributions of phytoplankton taxa to export. Environmental Microbiology, 2021, 23, 6734-6748.	3.8	8
31	Proteomic analysis of metabolic pathways supports chloroplastâ€“mitochondria crossâ€talk in a Cuâ€limited diatom. Plant Direct, 2022, 6, e376.	1.9	6
32	A rapid fingerprinting approach to distinguish between closely related strains of Shewanella. Journal of Microbiological Methods, 2011, 86, 62-68.	1.6	5
33	Molecular Approaches for an Operational Marine Biodiversity Observation Network. , 2019, , 613-631.		5
34	Alignment of Phylogenetically Unambiguous Indels inShewanella. Journal of Computational Biology, 2009, 16, 1517-1528.	1.6	3