

# Christopher Dupont

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

7,214  
citations

71102

41  
h-index

110387

64  
g-index

72  
all docs

72  
docs citations

72  
times ranked

9263  
citing authors

#	ARTICLE	IF	CITATIONS
1	Petrobactin, a siderophore produced by <i>Alteromonas</i> , mediates community iron acquisition in the global ocean. <i>ISME Journal</i> , 2022, 16, 358-369.	9.8	30
2	Biogeochemical profiling and taxonomic characterization of municipal landfill site by metagenomic sequencing. <i>Bioresource Technology</i> , 2022, 351, 126936.	9.6	13
3	A Silent Operon of <i>Photobacterium luminescens</i> Encodes a Prodrug Mimic of GTP. <i>MBio</i> , 2022, 13, e0070022.	4.1	7
4	Genomic insights into waste valorized extracellular polymeric substances (EPS) produced by <i>Bacillus</i> sp. ISTL8. <i>Environmental Research</i> , 2021, 192, 110277.	7.5	20
5	Metabolic versatility of the nitrite-oxidizing bacterium <i>Nitrospira marina</i> and its proteomic response to oxygen-limited conditions. <i>ISME Journal</i> , 2021, 15, 1025-1039.	9.8	62
6	Development of an Ocean Protein Portal for Interactive Discovery and Education. <i>Journal of Proteome Research</i> , 2021, 20, 326-336.	3.7	9
7	Reference-guided metagenomics reveals genome-level evidence of potential microbial transmission from the ISS environment to an astronaut's microbiome. <i>iScience</i> , 2021, 24, 102114.	4.1	6
8	Predicting antimicrobial mechanism-of-action from transcriptomes: A generalizable explainable artificial intelligence approach. <i>PLoS Computational Biology</i> , 2021, 17, e1008857.	3.2	16
9	Coral microbiome manipulation elicits metabolic and genetic restructuring to mitigate heat stress and evade mortality. <i>Science Advances</i> , 2021, 7, .	10.3	114
10	Dinoflagellates alter their carbon and nutrient metabolic strategies across environmental gradients in the central Pacific Ocean. <i>Nature Microbiology</i> , 2021, 6, 173-186.	13.3	45
11	Interactions between fecal gut microbiome, enteric pathogens, and energy regulating hormones among acutely malnourished rural Gambian children. <i>EBioMedicine</i> , 2021, 73, 103644.	6.1	12
12	Global ecotypes in the ubiquitous marine clade SAR86. <i>ISME Journal</i> , 2020, 14, 178-188.	9.8	49
13	METATryp v 2.0: Metaproteomic Least Common Ancestor Analysis for Taxonomic Inference Using Specialized Sequence Assemblies—Standalone Software and Web Servers for Marine Microorganisms and Coronaviruses. <i>Journal of Proteome Research</i> , 2020, 19, 4718-4729.	3.7	13
14	Revealing ocean-scale biochemical structure with a deep-diving vertical profiling autonomous vehicle. <i>Science Robotics</i> , 2020, 5, .	17.6	12
15	Bidirectional C and N transfer and a potential role for sulfur in an epiphytic diazotrophic mutualism. <i>ISME Journal</i> , 2020, 14, 3068-3078.	9.8	33
16	Abundant nitrite-oxidizing metalloenzymes in the mesopelagic zone of the tropical Pacific Ocean. <i>Nature Geoscience</i> , 2020, 13, 355-362.	12.9	41
17	A comparative metagenomic study reveals microbial diversity and their role in the biogeochemical cycling of Pangong lake. <i>Science of the Total Environment</i> , 2020, 731, 139074.	8.0	58
18	Applications of weighted association networks applied to compositional data in biology. <i>Environmental Microbiology</i> , 2020, 22, 3020-3038.	3.8	11

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19	Transcriptomic Study of Substrate-Specific Transport Mechanisms for Iron and Carbon in the Marine Copiotroph <i>Alteromonas macleodii</i> . <i>MSystems</i> , 2020, 5, .	3.8	19
20	Genomic and phenotypic characterization of <i>Burkholderia</i> isolates from the potable water system of the International Space Station. <i>PLoS ONE</i> , 2020, 15, e0227152.	2.5	11
21	Genetic tool development in marine protists: emerging model organisms for experimental cell biology. <i>Nature Methods</i> , 2020, 17, 481-494.	19.0	97
22	Mechanism-of-Action Classification of Antibiotics by Global Transcriptome Profiling. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 64, .	3.2	56
23	Microbiome disturbance and resilience dynamics of the upper respiratory tract during influenza A virus infection. <i>Nature Communications</i> , 2020, 11, 2537.	12.8	72
24	Genetic diversity of clinical and environmental <i>Mucorales</i> isolates obtained from an investigation of mucormycosis cases among solid organ transplant recipients. <i>Microbial Genomics</i> , 2020, 6, .	2.0	10
25	The Airplane Cabin Microbiome. <i>Microbial Ecology</i> , 2019, 77, 87-95.	2.8	19
26	Planktonic Marine Archaea. <i>Annual Review of Marine Science</i> , 2019, 11, 131-158.	11.6	129
27	Genomic Changes Associated with the Evolutionary Transitions of <i>Nostoc</i> to a Plant Symbiont. <i>Molecular Biology and Evolution</i> , 2018, 35, 1160-1175.	8.9	54
28	Supragingival Plaque Microbiome Ecology and Functional Potential in the Context of Health and Disease. <i>MBio</i> , 2018, 9, .	4.1	58
29	Taxon-specific aerosolization of bacteria and viruses in an experimental ocean-atmosphere mesocosm. <i>Nature Communications</i> , 2018, 9, 2017.	12.8	103
30	Tracking the rise of eukaryotes to ecological dominance with zinc isotopes. <i>Geobiology</i> , 2018, 16, 341-352.	2.4	65
31	Speciation and ecological success in dimly lit waters: horizontal gene transfer in a green sulfur bacteria bloom unveiled by metagenomic assembly. <i>ISME Journal</i> , 2017, 11, 201-211.	9.8	40
32	Evolutionary genomics of the cold-adapted diatom <i>Fragilariopsis cylindrus</i> . <i>Nature</i> , 2017, 541, 536-540.	27.8	332
33	Integrated Regulatory and Metabolic Networks of the Marine Diatom <i>Phaeodactylum tricornutum</i> Predict the Response to Rising CO <sub>2</sub> Levels. <i>MSystems</i> , 2017, 2, .	3.8	40
34	Thaumarchaeal ecotype distributions across the equatorial Pacific Ocean and their potential roles in nitrification and sinking flux attenuation. <i>Limnology and Oceanography</i> , 2017, 62, 1984-2003.	3.1	83
35	Host Genetic Control of the Oral Microbiome in Health and Disease. <i>Cell Host and Microbe</i> , 2017, 22, 269-278.e3.	11.0	165
36	Nitrate Reductase Knockout Uncouples Nitrate Transport from Nitrate Assimilation and Drives Repartitioning of Carbon Flux in a Model Pennate Diatom. <i>Plant Cell</i> , 2017, 29, 2047-2070.	6.6	102

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37	Feathermoss and epiphytic <i>Nostoc</i> cooperate differently: expanding the spectrum of plant-cyanobacteria symbiosis. <i>ISME Journal</i> , 2017, 11, 2821-2833.	9.8	69
38	Refinement of the Diatom Episome Maintenance Sequence and Improvement of Conjugation-Based DNA Delivery Methods. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 65.	4.1	74
39	Genome-Scale Model Reveals Metabolic Basis of Biomass Partitioning in a Model Diatom. <i>PLoS ONE</i> , 2016, 11, e0155038.	2.5	104
40	Trace Metal Acquisition by Marine Heterotrophic Bacterioplankton with Contrasting Trophic Strategies. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1613-1624.	3.1	51
41	Pluses and minuses of ammonium and nitrate uptake and assimilation by phytoplankton and implications for productivity and community composition, with emphasis on nitrogen-enriched conditions. <i>Limnology and Oceanography</i> , 2016, 61, 165-197.	3.1	475
42	The physiology and genetics of CO <sub>2</sub> concentrating mechanisms in model diatoms. <i>Current Opinion in Plant Biology</i> , 2016, 31, 51-57.	7.1	81
43	Trace elements at the intersection of marine biological and geochemical evolution. <i>Earth-Science Reviews</i> , 2016, 163, 323-348.	9.1	135
44	Global biogeography of <i>Prochlorococcus</i> genome diversity in the surface ocean. <i>ISME Journal</i> , 2016, 10, 1856-1865.	9.8	76
45	Using community metabolomics as a new approach to discriminate marine microbial particulate organic matter in the western English Channel. <i>Progress in Oceanography</i> , 2015, 137, 421-433.	3.2	27
46	Designer diatom episomes delivered by bacterial conjugation. <i>Nature Communications</i> , 2015, 6, 6925.	12.8	249
47	Genomic and proteomic characterization of <i>Candidatus Nitrosopelagicus brevis</i> : An ammonia-oxidizing archaeon from the open ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1173-1178.	7.1	278
48	Genomes and gene expression across light and productivity gradients in eastern subtropical Pacific microbial communities. <i>ISME Journal</i> , 2015, 9, 1076-1092.	9.8	108
49	Inactivation of <i>P<sub>scp</sub>haeodactylum tricorutum</i> urease gene using transcription activator-like effector nuclease-based targeted mutagenesis. <i>Plant Biotechnology Journal</i> , 2015, 13, 460-470.	8.3	128
50	Functional Tradeoffs Underpin Salinity-Driven Divergence in Microbial Community Composition. <i>PLoS ONE</i> , 2014, 9, e89549.	2.5	184
51	Bioavailability of zinc in marine systems through time. <i>Nature Geoscience</i> , 2013, 6, 125-128.	12.9	84
52	Candidate phylum TM6 genome recovered from a hospital sink biofilm provides genomic insights into this uncultivated phylum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2390-9.	7.1	192
53	Genomic insights to SAR86, an abundant and uncultivated marine bacterial lineage. <i>ISME Journal</i> , 2012, 6, 1186-1199.	9.8	511
54	Influence of cobalamin scarcity on diatom molecular physiology and identification of a cobalamin acquisition protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1762-71.	7.1	104

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55	Copper toxicity and the origin of bacterial resistance—new insights and applications. <i>Metallomics</i> , 2011, 3, 1109.	2.4	297
56	Efficient de novo assembly of single-cell bacterial genomes from short-read data sets. <i>Nature Biotechnology</i> , 2011, 29, 915-921.	17.5	203
57	Evolution and metabolic significance of the urea cycle in photosynthetic diatoms. <i>Nature</i> , 2011, 473, 203-207.	27.8	453
58	Genomic and functional adaptation in surface ocean planktonic prokaryotes. <i>Nature</i> , 2010, 468, 60-66.	27.8	280
59	Targeted metagenomics and ecology of globally important uncultured eukaryotic phytoplankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14679-14684.	7.1	257
60	Characterization of <i>Prochlorococcus</i> clades from iron-depleted oceanic regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16184-16189.	7.1	183
61	Nickel utilization in phytoplankton assemblages from contrasting oceanic regimes. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 553-566.	1.4	55
62	History of biological metal utilization inferred through phylogenomic analysis of protein structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10567-10572.	7.1	264
63	Modern proteomes contain putative imprints of ancient shifts in trace metal geochemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 17822-17827.	7.1	215
64	Dissection of Microbial Community Functions during a Cyanobacterial Bloom in the Baltic Sea via Metatranscriptomics. <i>Frontiers in Marine Science</i> , 0, 5, .	2.5	57