Fabrice Not

List of Publications by Year
in descending order

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99 papers	18,002 citations	34016 52 h-index	34900 98 g-index
123 all docs	123 docs citations	123 times ranked	13845 citing authors

#	Article	IF	Citations
1	Structure and function of the global ocean microbiome. Science, 2015, 348, 1261359.	6.0	2,137
2	Eukaryotic plankton diversity in the sunlit ocean. Science, 2015, 348, 1261605.	6.0	1,551
3	The Protist Ribosomal Reference database (PR2): a catalog of unicellular eukaryote Small Sub-Unit rRNA sequences with curated taxonomy. Nucleic Acids Research, 2012, 41, D597-D604.	6.5	1,463
4	Determinants of community structure in the global plankton interactome. Science, 2015, 348, 1262073.	6.0	842
5	Plankton networks driving carbon export in the oligotrophic ocean. Nature, 2016, 532, 465-470.	13.7	670
6	Patterns and ecological drivers of ocean viral communities. Science, 2015, 348, 1261498.	6.0	617
7	Green Evolution and Dynamic Adaptations Revealed by Genomes of the Marine Picoeukaryotes Micromonas. Science, 2009, 324, 268-272.	6.0	591
8	Marine DNA Viral Macro- and Microdiversity from Pole to Pole. Cell, 2019, 177, 1109-1123.e14.	13.5	541
9	Mapping of picoeucaryotes in marine ecosystems with quantitative PCR of the 18S rRNA gene. FEMS Microbiology Ecology, 2005, 52, 79-92.	1.3	540
10	Patterns of Rare and Abundant Marine Microbial Eukaryotes. Current Biology, 2014, 24, 813-821.	1.8	450
11	Global phylogeography of marine Synechococcus and Prochlorococcus reveals a distinct partitioning of lineages among oceanic biomes. Environmental Microbiology, 2008, 10, 147-161.	1.8	398
12	Marine protist diversity in <scp>E</scp>uropean coastal waters and sediments as revealed by highâ€throughput sequencing. Environmental Microbiology, 2015, 17, 4035-4049.	1.8	384
13	A Holistic Approach to Marine Eco-Systems Biology. PLoS Biology, 2011, 9, e1001177.	2.6	353
14	Open science resources for the discovery and analysis of Tara Oceans data. Scientific Data, 2015, 2, 150023.	2.4	330
15	A global ocean atlas of eukaryotic genes. Nature Communications, 2018, 9, 373.	5.8	297
16	Defining Planktonic Protist Functional Groups on Mechanisms for Energy and Nutrient Acquisition: Incorporation of Diverse Mixotrophic Strategies. Protist, 2016, 167, 106-120.	0.6	290
17	Acquired phototrophy in aquatic protists. Aquatic Microbial Ecology, 2009, 57, 279-310.	0.9	283
18	Global Trends in Marine Plankton Diversity across Kingdoms of Life. Cell, 2019, 179, 1084-1097.e21.	13.5	271

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19	Gene Expression Changes and Community Turnover Differentially Shape the Global Ocean Metatranscriptome. Cell, 2019, 179, 1068-1083.e21.	13.5	268
20	Extreme diversity in noncalcifying haptophytes explains a major pigment paradox in open oceans. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12803-12808.	3.3	263
21	A Single Species, Micromonas pusilla (Prasinophyceae), Dominates the Eukaryotic Picoplankton in the Western English Channel. Applied and Environmental Microbiology, 2004, 70, 4064-4072.	1.4	246
22	Mixotrophic haptophytes are key bacterial grazers in oligotrophic coastal waters. ISME Journal, 2014, 8, 164-176.	4.4	227
23	New Insights into the Diversity of Marine Picoeukaryotes. PLoS ONE, 2009, 4, e7143.	1.1	221
24	In situ imaging reveals the biomass of giant protists in the global ocean. Nature, 2016, 532, 504-507.	13.7	210
25	Picobiliphytes: A Marine Picoplanktonic Algal Group with Unknown Affinities to Other Eukaryotes. Science, 2007, 315, 253-255.	6.0	202
26	Exploring nucleo-cytoplasmic large DNA viruses in Tara Oceans microbial metagenomes. ISME Journal, 2013, 7, 1678-1695.	4.4	185
27	Vertical distribution of picoeukaryotic diversity in the Sargasso Sea. Environmental Microbiology, 2007, 9, 1233-1252.	1.8	181
28	Late summer community composition and abundance of photosynthetic picoeukaryotes in Norwegian and Barents Seas. Limnology and Oceanography, 2005, 50, 1677-1686.	1.6	177
29	Environmental characteristics of Agulhas rings affect interocean plankton transport. Science, 2015, 348, 1261447.	6.0	158
30	Mixotrophy everywhere on land and in water: the grand Ã©cart hypothesis. Ecology Letters, 2017, 20, 246-263.	3.0	145
31	Grazing rates and functional diversity of uncultured heterotrophic flagellates. ISME Journal, 2009, 3, 588-596.	4.4	141
32	Protistan assemblages across the Indian Ocean, with a specific emphasis on the picoeukaryotes. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 1456-1473.	0.6	134
33	An original mode of symbiosis in open ocean plankton. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18000-18005.	3.3	126
34	Cryptic and abundant marine viruses at the evolutionary origins of Earthâ€™s RNA virome. Science, 2022, 376, 156-162.	6.0	124
35	Mixotrophic protists and a new paradigm for marine ecology: where does plankton research go now?. Journal of Plankton Research, 2019, 41, 375-391.	0.8	119
36	Application of fluorescent in situ hybridization coupled with tyramide signal amplification (FISH-TSA) to assess eukaryotic picoplankton composition. Aquatic Microbial Ecology, 2002, 28, 157-166.	0.9	116

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37	Quantitative Assessment of Picoeukaryotes in the Natural Environment by Using Taxon-Specific Oligonucleotide Probes in Association with Tyramide Signal Amplification-Fluorescence In Situ Hybridization and Flow Cytometry. Applied and Environmental Microbiology, 2003, 69, 5519-5529.	1.4	113
38	The Evolution of Silicon Transport in Eukaryotes. Molecular Biology and Evolution, 2016, 33, 3226-3248.	3.5	107
39	Holococcolithophoreâ€heterococcolithophore (Haptophyta) life cycles: Flow cytometric analysis of relative ploidy levels. Systematics and Biodiversity, 2004, 1, 453-465.	0.5	94
40	Benthic protists: the under-charted majority. FEMS Microbiology Ecology, 2016, 92, fiw120.	1.3	94
41	Ecological niche partitioning in the picoplanktonic green alga Micromonas pusilla: evidence from environmental surveys using phylogenetic probes. Environmental Microbiology, 2008, 10, 2433-2443.	1.8	86
42	Diversity and Ecology of Eukaryotic Marine Phytoplankton. Advances in Botanical Research, 2012, 64, 1-53.	0.5	84
43	Distribution and host diversity of Amoebophryidae parasites across oligotrophic waters of the Mediterranean Sea. Biogeosciences, 2011, 8, 267-278.	1.3	81
44	<scp>B</scp>randtodinium gen. nov. and <scp>B</scp>.Ânutricula comb. <scp>N</scp>ov. (<scp>D</scp>inophyceae), a dinoflagellate commonly found in symbiosis with polycystine radiolarians. Journal of Phycology, 2014, 50, 388-399.	1.0	80
45	Communityâ€Level Responses to Iron Availability in Open Ocean Plankton Ecosystems. Global Biogeochemical Cycles, 2019, 33, 391-419.	1.9	76
46	A global perspective on marine photosynthetic picoeukaryote community structure. ISME Journal, 2013, 7, 922-936.	4.4	75
47	Biology and Ecology of Radiolaria. , 2015, , 179-222.		75
48	Pelagodinium gen. nov. and P. bÃ©ii comb. nov., a Dinoflagellate Symbiont of Planktonic Foraminifera. Protist, 2010, 161, 385-399.	0.6	73
49	Functional repertoire convergence of distantly related eukaryotic plankton lineages abundant in the sunlit ocean. Cell Genomics, 2022, 2, 100123.	3.0	70
50	Intracellular Diversity of the V4 and V9 Regions of the 18S rRNA in Marine Protists (Radiolarians) Assessed by High-Throughput Sequencing. PLoS ONE, 2014, 9, e104297.	1.1	69
51	Biogeography and diversity of Collodaria (Radiolaria) in the global ocean. ISME Journal, 2017, 11, 1331-1344.	4.4	66
52	Diversity, Ecology and Biogeochemistry of Cyst-Forming Acantharia (Radiolaria) in the Oceans. PLoS ONE, 2013, 8, e53598.	1.1	66
53	Deep relationships of Rhizaria revealed by phylogenomics: A farewell to Haeckelâ€™s Radiolaria. Molecular Phylogenetics and Evolution, 2013, 67, 53-59.	1.2	65
54	Molecular Phylogeny and Morphological Evolution of the Acantharia (Radiolaria). Protist, 2012, 163, 435-450.	0.6	62

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55	Putative sponge biomarkers in unicellular Rhizaria question an early rise of animals. Nature Ecology and Evolution, 2019, 3, 577-581.	3.4	57
56	Compendium of 530 metagenome-assembled bacterial and archaeal genomes from the polar Arctic Ocean. Nature Microbiology, 2021, 6, 1561-1574.	5.9	57
57	Mixotrophic protists display contrasted biogeographies in the global ocean. ISME Journal, 2019, 13, 1072-1083.	4.4	55
58	Are autotrophs less diverse than heterotrophs in marine picoplankton?. Trends in Microbiology, 2002, 10, 266-267.	3.5	52
59	Towards an Integrative Morpho-molecular Classification of the Collodaria (Polycystinea, Radiolaria). Protist, 2015, 166, 374-388.	0.6	49
60	Diatom diversity through HTS-metabarcoding in coastal European seas. Scientific Reports, 2018, 8, 18059.	1.6	48
61	Molecular analyses of protists in long-term observation programmesâ€"current status and future perspectives. Journal of Plankton Research, 2018, 40, 519-536.	0.8	47
62	Multiple microalgal partners in symbiosis with the acantharian Acanthochiasma sp. (Radiolaria). Symbiosis, 2012, 58, 233-244.	1.2	44
63	Taming the smallest predators of the oceans. ISME Journal, 2013, 7, 351-358.	4.4	44
64	A community perspective on the concept of marine holobionts: current status, challenges, and future directions. PeerJ, 2021, 9, e10911.	0.9	44
65	High contribution of Rhizaria (Radiolaria) to vertical export in the California Current Ecosystem revealed by DNA metabarcoding. ISME Journal, 2019, 13, 964-976.	4.4	41
66	Transcriptome analyses to investigate symbiotic relationships between marine protists. Frontiers in Microbiology, 2015, 6, 98.	1.5	40
67	Using chemical language to shape future marine health. Frontiers in Ecology and the Environment, 2019, 17, 530-537.	1.9	33
68	Observational Needs Supporting Marine Ecosystems Modeling and Forecasting: From the Global Ocean to Regional and Coastal Systems. Frontiers in Marine Science, 2019, 6, .	1.2	32
69	Size-fractionated phytoplankton diversity in the NW Iberian coast: a combination of microscopic, pigment and molecular analyses. Aquatic Microbial Ecology, 2007, 49, 255-265.	0.9	32
70	A dataset on trophic modes of aquatic protists. Biodiversity Data Journal, 2020, 8, e56648.	0.4	26
71	The Ocean Gene Atlas v2.0: online exploration of the biogeography and phylogeny of plankton genes. Nucleic Acids Research, 2022, 50, W516-W526.	6.5	26
72	Phylogenetic Relationships and Evolutionary Patterns of the Order Collodaria (Radiolaria). PLoS ONE, 2012, 7, e35775.	1.1	25

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73	Molecular Phylogeny of the Widely Distributed Marine Protists, Phaeodaria (Rhizaria, Cercozoa). Protist, 2015, 166, 363-373.	0.6	24
74	Estimating Biogenic Silica Production of Rhizaria in the Global Ocean. Global Biogeochemical Cycles, 2020, 34, e2019GB006286.	1.9	24
75	Macroscale patterns of oceanic zooplankton composition and size structure. Scientific Reports, 2021, 11, 15714.	1.6	24
76	Symbiont Chloroplasts Remain Active During Bleaching-Like Response Induced by Thermal Stress in Collozoum pelagicum (Collodaria, Retaria). Frontiers in Marine Science, 2018, 5, .	1.2	21
77	Time Calibrated Morpho-molecular Classification of Nassellaria (Radiolaria). Protist, 2019, 170, 187-208.	0.6	21
78	A de novo approach to disentangle partner identity and function in holobiont systems. Microbiome, 2018, 6, 105.	4.9	19
79	Seasonal dynamics of marine protist communities in tidally mixed coastal waters. Molecular Ecology, 2022, 31, 3761-3783.	2.0	19
80	The Epistemic Revolution Induced by Microbiome Studies: An Interdisciplinary View. Biology, 2021, 10, 651.	1.3	18
81	Two distinct lineages in the radiolarian Order Spumellaria having different ecological preferences. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 61-64, 172-178.	0.6	16
82	CACO3OPTICAL DETECTION WITH FLUORESCENTIN SITUHYBRIDIZATION: A NEW METHOD TO IDENTIFY AND QUANTIFY CALCIFYING MICROORGANISMS FROM THE OCEANS1. Journal of Phycology, 2006, 42, 1162-1169.	1.0	14
83	Dimethylated sulfur compounds in symbiotic protists: A potentially significant source for marine DMS(P). Limnology and Oceanography, 2017, 62, 1139-1154.	1.6	14
84	Middle Ordovician acritarchs and problematic organic-walled microfossils from the Saq-Hanadir transitional beds in the QSIM-801 well, Saudi Arabia. Revue De Micropaleontologie, 2017, 60, 289-318.	0.8	14
85	Phylogenetic Revision of the Order Entactiniaâ€”Paleozoic Relict Radiolaria (Rhizaria, SAR). Protist, 2020, 171, 125712.	0.6	14
86	Photosymbiosis in Marine Pelagic Environments. , 2016, , 305-332.		13
87	A new sequence data set of <scp>SSU rRNA</scp> gene for Scleractinia and its phylogenetic and ecological applications. Molecular Ecology Resources, 2017, 17, 1054-1071.	2.2	13
88	Analysis of the genomic basis of functional diversity in dinoflagellates using a transcriptomeâ€based sequence similarity network. Molecular Ecology, 2018, 27, 2365-2380.	2.0	12
89	No evidence of Phagoâ€mixotropy in Micromonaspolaris (Mamiellophyceae), the Dominant Picophytoplankton Species in the Arctic. Journal of Phycology, 2021, 57, 435-446.	1.0	11
90	Role of small Rhizaria and diatoms in the pelagic silica production of the Southern Ocean. Limnology and Oceanography, 2021, 66, 2187-2202.	1.6	11

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91	Planktonic protist diversity across contrasting Subtropical and Subantarctic waters of the southwest Pacific. Progress in Oceanography, 2022, 206, 102809.	1.5	11
92	Mare Incognitum: A Glimpse into Future Plankton Diversity and Ecology Research. Frontiers in Marine Science, 2017, 4, .	1.2	10
93	Taming chlorophylls by early eukaryotes underpinned algal interactions and the diversification of the eukaryotes on the oxygenated Earth. ISME Journal, 2019, 13, 1899-1910.	4.4	10
94	Reply to: Sources of C30 steroid biomarkers in Neoproterozoicâ€“Cambrian rocks and oils. Nature Ecology and Evolution, 2020, 4, 37-39.	3.4	10
95	A Morpho-molecular Perspective on the Diversity and Evolution of Spumellaria (Radiolaria). Protist, 2021, 172, 125806.	0.6	10
96	Diversity of photosynthetic picoeukaryotes in eutrophic shallow lakes as assessed by combining flow cytometry cell-sorting and high throughput sequencing. FEMS Microbiology Ecology, 2019, 95, .	1.3	9
97	Freshwater protists: unveiling the unexplored in a large floodplain system. Environmental Microbiology, 2022, 24, 1731-1745.	1.8	9
98	Carbon and nitrogen content to biovolume relationships for marine protist of the Rhizaria lineage (Radiolaria and Phaeodaria). Limnology and Oceanography, 2021, 66, 1703-1717.	1.6	8
99	Intraâ€genomic <scp>rRNA</scp> gene variability of Nassellaria and Spumellaria (Rhizaria, Radiolaria) assessed by Sanger, <scp>MinION</scp> and Illumina sequencing. Environmental Microbiology, 2022, 24, 2979-2993.	1.8	7