

StÃ©phan Jacquet

List of Publications by Year in descending order

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119
papers

7,075
citations

57719

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126
docs citations

126
times ranked

7405
citing authors

#	ARTICLE	IF	CITATIONS
1	Enumeration and Cell Cycle Analysis of Natural Populations of Marine Picoplankton by Flow Cytometry Using the Nucleic Acid Stain SYBR Green I. <i>Applied and Environmental Microbiology</i> , 1997, 63, 186-193.	1.4	937
2	Health hazards for terrestrial vertebrates from toxic cyanobacteria in surface water ecosystems. <i>Veterinary Research</i> , 2003, 34, 361-377.	1.1	247
3	Testing the direct effect of CO ₂ concentration on a bloom of the coccolithophorid <i>Emiliana huxleyi</i> in mesocosm experiments. <i>Limnology and Oceanography</i> , 2005, 50, 493-507.	1.6	244
4	Response of primary production and calcification to changes of pCO ₂ during experimental blooms of the coccolithophorid <i>Emiliana huxleyi</i> . <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	1.9	215
5	Picophytoplankton biomass distribution in the global ocean. <i>Earth System Science Data</i> , 2012, 4, 37-46.	3.7	197
6	Auxin Production Is a Common Feature of Most Pathovars of <i>Pseudomonas syringae</i> . <i>Molecular Plant-Microbe Interactions</i> , 1998, 11, 156-162.	1.4	185
7	Transparent exopolymer particles and dissolved organic carbon production by <i>Emiliana huxleyi</i> exposed to different CO ₂ concentrations: a mesocosm experiment. <i>Aquatic Microbial Ecology</i> , 2004, 34, 93-104.	0.9	172
8	The proliferation of the toxic cyanobacterium <i>Planktothrix rubescens</i> following restoration of the largest natural French lake (Lac du Bourget). <i>Harmful Algae</i> , 2005, 4, 651-672.	2.2	167
9	Deciphering the virus-to-prokaryote ratio ($\langle scp \rangle VPR \langle /scp \rangle$): insights into virus-host relationships in a variety of ecosystems. <i>Biological Reviews</i> , 2017, 92, 1081-1100.	4.7	153
10	Flow cytometric analysis of an <i>Emiliana huxleyi</i> bloom terminated by viral infection. <i>Aquatic Microbial Ecology</i> , 2002, 27, 111-124.	0.9	151
11	Direct estimates of the contribution of viral lysis and microzooplankton grazing to the decline of a <i>Micromonas</i> spp. population. <i>Aquatic Microbial Ecology</i> , 2003, 30, 207-219.	0.9	149
12	Scientistsâ€™ Warning to Humanity: Rapid degradation of the worldâ€™s large lakes. <i>Journal of Great Lakes Research</i> , 2020, 46, 686-702.	0.8	140
13	Spring phytoplankton bloom dynamics in Norwegian coastal waters: Microbial community succession and diversity. <i>Limnology and Oceanography</i> , 2004, 49, 180-190.	1.6	126
14	Viriobenthos in freshwater and marine sediments: a review. <i>Freshwater Biology</i> , 2008, 53, 1186-1213.	1.2	125
15	Growth and grazing on <i>Prochlorococcus</i> and <i>Synechococcus</i> by two marine ciliates. <i>Limnology and Oceanography</i> , 1999, 44, 52-61.	1.6	121
16	Patterns and drivers of deep chlorophyll maxima structure in 100 lakes: The relative importance of light and thermal stratification. <i>Limnology and Oceanography</i> , 2018, 63, 628-646.	1.6	119
17	Flow cytometric analysis of bacteria- and virus-like particles in lake sediments. <i>Journal of Microbiological Methods</i> , 2006, 64, 316-332.	0.7	118
18	Avoiding quantification bias in metabarcoding: Application of a cell biovolume correction factor in diatom molecular biomonitoring. <i>Methods in Ecology and Evolution</i> , 2018, 9, 1060-1069.	2.2	113

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19	Application of a submersible spectrofluorometer for rapid monitoring of freshwater cyanobacterial blooms: a case study. <i>Aquatic Microbial Ecology</i> , 2002, 30, 83-89.	0.9	111
20	DIEL PATTERNS OF GROWTH AND DIVISION IN MARINE PICOPLANKTON IN CULTURE. <i>Journal of Phycology</i> , 2001, 37, 357.	1.0	109
21	Picoplankton population dynamics in coastal waters of the northwestern Mediterranean Sea. <i>Limnology and Oceanography</i> , 1998, 43, 1916-1931.	1.6	100
22	Metabarcoding of lake benthic diatoms: from structure assemblages to ecological assessment. <i>Hydrobiologia</i> , 2018, 807, 37-51.	1.0	90
23	Cyanophage Diversity, Inferred from g20 Gene Analyses, in the Largest Natural Lake in France, Lake Bourget. <i>Applied and Environmental Microbiology</i> , 2004, 70, 1017-1022.	1.4	89
24	Estimates of protozoan- and viral-mediated mortality of bacterioplankton in Lake Bourget (France). <i>Freshwater Biology</i> , 2005, 50, 627-645.	1.2	89
25	Variations in the Microcystin Production of <i>Planktothrix rubescens</i> (Cyanobacteria) Assessed from a Four-Year Survey of Lac du Bourget (France) and from Laboratory Experiments. <i>Microbial Ecology</i> , 2005, 50, 418-428.	1.4	88
26	Widespread diminishing anthropogenic effects on calcium in freshwaters. <i>Scientific Reports</i> , 2019, 9, 10450.	1.6	84
27	Comparative effects of the quality and quantity of light and temperature on the growth of <i>Planktothrix agardhii</i> and <i>P. rubescens</i> . <i>Journal of Phycology</i> , 2007, 43, 1191-1199.	1.0	81
28	Routine quantification of phytoplankton groups – microscopy or pigment analyses?. <i>Marine Ecology - Progress Series</i> , 2004, 273, 31-42.	0.9	81
29	Cell Cycle Regulation by Light in <i>Prochlorococcus</i> Strains. <i>Applied and Environmental Microbiology</i> , 2001, 67, 782-790.	1.4	73
30	Viral abundance, production, decay rates and life strategies (lysogeny versus lysis) in Lake Bourget (France). <i>Environmental Microbiology</i> , 2011, 13, 616-630.	1.8	70
31	Trophic interactions between viruses, bacteria and nanoflagellates under various nutrient conditions and simulated climate change. <i>Environmental Microbiology</i> , 2011, 13, 1842-1857.	1.8	70
32	Complex interactions in the microbial world: underexplored key links between viruses, bacteria and protozoan grazers in aquatic environments. <i>Aquatic Microbial Ecology</i> , 2008, 51, 195-208.	0.9	70
33	Grazing impact of two small heterotrophic flagellates on <i>Prochlorococcus</i> and <i>Synechococcus</i> . <i>Aquatic Microbial Ecology</i> , 2001, 26, 201-207.	0.9	69
34	Viruses in aquatic ecosystems: important advancements of the last 20 years and prospects for the future in the field of microbial oceanography and limnology. <i>Advances in Oceanography and Limnology</i> , 2010, 1, 97.	0.2	68
35	Flow cytometry sorting of freshwater phytoplankton. <i>Journal of Applied Phycology</i> , 2010, 22, 87-100.	1.5	65
36	Viruses in freshwater ecosystems: an introduction to the exploration of viruses in new aquatic habitats. <i>Freshwater Biology</i> , 2008, 53, 1069-1075.	1.2	63

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37	Effects of ultraviolet radiation on marine virus-phytoplankton interactions. FEMS Microbiology Ecology, 2003, 44, 279-289.	1.3	59
38	Microbial Community Structure and Dynamics in the Largest Natural French Lake (Lake Bourget). Microbial Ecology, 2006, 52, 72-89.	1.4	59
39	Chromophoric dissolved organic matter in experimental mesocosms maintained under different pCO ₂ levels. Marine Ecology - Progress Series, 2004, 272, 25-31.	0.9	58
40	Diel Expression of Cell Cycle-Related Genes in Synchronized Cultures of Prochlorococcus sp. Strain PCC 9511. Journal of Bacteriology, 2001, 183, 915-920.	1.0	56
41	Temperature is a key factor in <i>Micromonas</i> -virus interactions. ISME Journal, 2017, 11, 601-612.	4.4	56
42	Seasonal variations of microbial abundances and virus- versus flagellate-induced mortality of picoplankton in three peri-alpine lakes. Journal of Plankton Research, 2009, 31, 1161-1177.	0.8	55
43	Short-timescale variability of picophytoplankton abundance and cellular parameters in surface waters of the Alboran Sea (western Mediterranean). Journal of Plankton Research, 2002, 24, 635-651.	0.8	53
44	Barium in twilight zone suspended matter as a potential proxy for particulate organic carbon remineralization: Results for the North Pacific. Deep-Sea Research Part II: Topical Studies in Oceanography, 2008, 55, 1673-1683.	0.6	53
45	Seasonal and spatial variability of virio-, bacterio-, and picophytoplanktonic abundances in three peri-alpine lakes. Hydrobiologia, 2009, 627, 99-116.	1.0	53
46	The Observatory on LAkes (OLA) database: Sixty years of environmental data accessible to the public. Journal of Limnology, 2020, 79, .	0.3	51
47	Effects of inorganic and organic nutrient addition on a coastal microbial community (Isefjord, Norway). Environmental Microbiology, 2007, 9, 107-117.	0.9	48
48	Ecological traits of planktonic viruses and prokaryotes along a full-salinity gradient. FEMS Microbiology Ecology, 2011, 76, 360-372.	1.3	47
49	Bottom-Up versus Top-Down Control of Hypo- and Epilimnion Free-Living Bacterial Community Structures in Two Neighboring Freshwater Lakes. Applied and Environmental Microbiology, 2011, 77, 3591-3599.	1.4	47
50	Viruses in aquatic ecosystems: important advancements of the last 20 years and prospects for the future in the field of microbial oceanography and limnology. Advances in Oceanography and Limnology, 2010, 1, 97-141.	0.2	45
51	Blue-Green Algae in a "Greenhouse Century"? New Insights from Field Data on Climate Change Impacts on Cyanobacteria Abundance. Ecosystems, 2015, 18, 441-458.	1.6	45
52	Effect of grazers and viruses on bacterial community structure and production in two contrasting trophic lakes. BMC Microbiology, 2011, 11, 88.	1.3	44
53	Relative importance of nutrients and mortality factors on prokaryotic community composition in two lakes of different trophic status: Microcosm experiments. FEMS Microbiology Ecology, 2005, 53, 429-443.	1.3	43
54	Comparing taxonomic and morphological biodiversity of tintinnids (planktonic ciliates) of New Caledonia. Limnology and Oceanography, 2006, 51, 950-958.	1.6	42

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55	A 2-Year Assessment of the Main Environmental Factors Driving the Free-Living Bacterial Community Structure in Lake Bourget (France). <i>Microbial Ecology</i> , 2011, 61, 941-954.	1.4	40
56	Cyanobacterial bloom termination: the disappearance of <i>Planktothrix rubescens</i> from Lake Bourget (France) after restoration. <i>Freshwater Biology</i> , 2014, 59, 2472-2487.	1.2	38
57	Ability of a minimum microbial food web model to reproduce response patterns observed in mesocosms manipulated with N and P, glucose, and Si. <i>Journal of Marine Systems</i> , 2007, 64, 15-34.	0.9	36
58	Assessing phytoplankton structure and spatio-temporal dynamics in a freshwater ecosystem using a powerful multiway statistical analysis. <i>Water Research</i> , 2009, 43, 3155-3168.	5.3	36
59	Temporal Variations of Microbial Activity and Diversity in Marine Tropical Sediments (New Caledonia) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	1.4	35
60	Structure and diversity of ssDNA Microviridae viruses in two peri-alpine lakes (Annecy and Bourget,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	1.0	35
61	Advances in forecasting harmful algal blooms using machine learning models: A case study with <i>Planktothrix rubescens</i> in Lake Geneva. <i>Harmful Algae</i> , 2020, 99, 101906.	2.2	34
62	The need for ecological monitoring of freshwaters in a changing world: a case study of Lakes Annecy, Bourget, and Geneva. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 3455-3476.	1.3	33
63	Diversity, Dynamics, and Distribution of <i>Bdellovibrio</i> and Like Organisms in Perialpine Lakes. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	30
64	Picoheterotroph (<i>Bacteria</i>) and <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (&lt;i>Ar</i>	3.7	30
65	Science Data, 2012, 4, 101-106.		
65	Spatio-temporal changes in the structure of archaeal communities in two deep freshwater lakes. <i>FEMS Microbiology Ecology</i> , 2013, 86, 215-230.	1.3	29
66	A New Freshwater Cyanosiphovirus Harboring Integrase. <i>Frontiers in Microbiology</i> , 2018, 9, 2204.	1.5	26
67	Do small grazers influence virus-induced mortality of bacteria in Lake Bourget (France)? <i>Fundamental and Applied Limnology</i> , 2007, 170, 125-132.	0.4	25
68	Phage adsorption to bacteria in the light of the electrostatics: A case study using <i>E. coli</i> , T2 and flow cytometry. <i>Journal of Virological Methods</i> , 2013, 189, 283-289.	1.0	25
69	Prevalence of Viral Photosynthetic and Capsid Protein Genes from Cyanophages in Two Large and Deep Perialpine Lakes. <i>Applied and Environmental Microbiology</i> , 2013, 79, 7169-7178.	1.4	23
70	Temporal dynamics and structure of picocyanobacteria and cyanomyoviruses in two large and deep peri-alpine lakes. <i>FEMS Microbiology Ecology</i> , 2013, 86, 312-326.	1.3	23
71	<i>Bdellovibrio</i> and Like Organisms in Lake Geneva: An Unseen Elephant in the Room?. <i>Frontiers in Microbiology</i> , 2020, 11, 98.	1.5	23
72	Estimating future cyanobacterial occurrence and importance in lakes: a case study with <i>Planktothrix rubescens</i> in Lake Geneva. <i>Aquatic Sciences</i> , 2017, 79, 249-263.	0.6	22

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73	Modelling the plankton groups of the deep, peri-alpine Lake Bourget. <i>Ecological Modelling</i> , 2017, 359, 415-433.	1.2	21
74	Development and implementation of eco-genomic tools for aquatic ecosystem biomonitoring: the SYNAQUA French-Swiss program. <i>Environmental Science and Pollution Research</i> , 2018, 25, 33858-33866.	2.7	21
75	The plankton community in Norwegian coastal watersâ€™ abundance, composition, spatial distribution and diel variation. <i>Continental Shelf Research</i> , 2011, 31, 1500-1514.	0.9	20
76	First description of a cyanophage infecting the cyanobacterium <i>Arthrospira platensis</i> (Spirulina). <i>Journal of Applied Phycology</i> , 2013, 25, 195-203.	1.5	20
77	Dynamics of auto- and heterotrophic picoplankton and associated viruses in Lake Geneva. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1073-1087.	1.9	20
78	Effects of mixing on the pelagic food web in shallow lakes. <i>Freshwater Biology</i> , 2017, 62, 161-177.	1.2	20
79	Variations in Abundance, Genome Size, Morphology, and Functional Role of the Virioplankton in Lakes Annecy and Bourget over a 1-Year Period. <i>Microbial Ecology</i> , 2014, 67, 66-82.	1.4	19
80	Biological factors regulating the chemical speciation of Cu, Zn, and Mn under different nutrient regimes in a marine mesocosm experiment. <i>Limnology and Oceanography</i> , 2003, 48, 2289-2302.	1.6	18
81	A 2-year survey of phytoplankton in the Marne Reservoir (France): A case study to validate the use of an <i>in situ</i> spectrofluorometer by comparison with algal taxonomy and chlorophyll <i>a</i> measurements. <i>Knowledge and Management of Aquatic Ecosystems</i> , 2010, , 02.	0.5	18
82	Application of a compact automatic sea water sampler to high frequency picoplankton studies. <i>Aquatic Microbial Ecology</i> , 1998, 14, 309-314.	0.9	17
83	Short-term variations in abundances and potential activities of viruses, bacteria and nanoprotists in Lake Bourget. <i>Ecological Research</i> , 2008, 23, 851-861.	0.7	16
84	Genomics of Algal Host-Virus Interactions. <i>Advances in Botanical Research</i> , 2012, , 343-381.	0.5	15
85	Contrasting diversity of phycodnavirus signature genes in two large and deep western European lakes. <i>Environmental Microbiology</i> , 2014, 16, 759-773.	1.8	15
86	Differing assemblage composition and dynamics in <i>T4-like</i> myophages of two neighbouring subalpine lakes. <i>Freshwater Biology</i> , 2014, 59, 1577-1595.	1.2	14
87	Seasonal Dynamics of Abundance, Structure, and Diversity of Methanogens and Methanotrophs in Lake Sediments. <i>Microbial Ecology</i> , 2021, 82, 559-571.	1.4	14
88	Indirect interactions in the microbial world: specificities and similarities to plant-insect systems. <i>Population Ecology</i> , 2010, 52, 475-483.	0.7	12
89	Assessing the microbial community dynamics and the role of bacteriophages in bacterial mortality in Lake Geneva. <i>Revue Des Sciences De L'Eau</i> , 0, 19, 115-126.	0.2	11
90	Predicting future effects from nutrient abatement and climate change on phosphorus concentrations in Lake Bourget, France. <i>Ecological Modelling</i> , 2010, 221, 1440-1450.	1.2	10

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91	Effects of temperature and UVR on organic matter fluxes and the metabolic activity of <i>Acropora muricata</i> . <i>Biology Open</i> , 2017, 6, 1190-1199.	0.6	10
92	The extent and variability of storm-induced temperature changes in lakes measured with long-term and high-frequency data. <i>Limnology and Oceanography</i> , 2021, 66, 1979-1992.	1.6	10
93	Dynamics of various viral groups infecting autotrophic plankton in Lake Geneva. <i>Advances in Oceanography and Limnology</i> , 2012, 3, 171-191.	0.2	9
94	Do phages impact microbial dynamics, prokaryotic community structure and nutrient dynamics in Lake Bourget?. <i>Biology Open</i> , 2015, 4, 1528-1537.	0.6	9
95	Seasonal variations in PCR-DGGE fingerprinted viruses infecting phytoplankton in large and deep peri-alpine lakes. <i>Ecological Research</i> , 2014, 29, 271-287.	0.7	7
96	<i>Bdellovibrio</i> and like organisms: current understanding and knowledge gaps of the smallest cellular hunters of the microbial world. <i>Critical Reviews in Microbiology</i> , 2022, 48, 428-449.	2.7	7
97	First Evidence of an Important Organic Matter Trophic Pathway between Temperate Corals and Pelagic Microbial Communities. <i>PLoS ONE</i> , 2015, 10, e0139175.	1.1	7
98	Are Small Grazers and/or Viruses a Structuring Factor of the Free-Living Bacterial Community in Lake Geneva?. <i>Advances in Microbiology</i> , 2013, 03, 233-248.	0.3	7
99	Ultra-Violet Radiation Has a Limited Impact on Seasonal Differences in the <i>Acropora Muricata</i> Holobiont. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	6
100	Exopolymeric Substances Control Microbial Community Structure and Function by Contributing to both C and Fe Nutrition in Fe-Limited Southern Ocean Provinces. <i>Microorganisms</i> , 2020, 8, 1980.	1.6	6
101	New 16S rRNA primers to uncover <i>Bdellovibrio</i> and like organisms diversity and abundance. <i>Journal of Microbiological Methods</i> , 2020, 175, 105996.	0.7	6
102	Contrasting temporal patterns in ammonia-oxidizing archaeal community dynamics in two peri-alpine lakes with different trophic status. <i>Aquatic Microbial Ecology</i> , 2018, 81, 95-108.	0.9	6
103	Strategies and mechanisms of resistance to viruses in photosynthetic aquatic microorganisms. <i>Advances in Oceanography and Limnology</i> , 2012, 3, 1-15.	0.2	5
104	Short-term responses of unicellular planktonic eukaryotes to increases in temperature and UVB radiation. <i>BMC Microbiology</i> , 2012, 12, 202.	1.3	5
105	Seasonal patterns of viral, microbial and planktonic communities in Sidi Salem: a freshwater reservoir (North of Tunisia). <i>Annales De Limnologie</i> , 2014, 50, 299-314.	0.6	5
106	Abundance and observations of thermophilic microbial and viral communities in submarine and terrestrial hot fluid systems of the French Southern and Antarctic Lands. <i>Polar Biology</i> , 2018, 41, 1335-1352.	0.5	5
107	Dynamics of various viral groups infecting autotrophic plankton in Lake Geneva. <i>Advances in Oceanography and Limnology</i> , 2012, 3, 171.	0.2	5
108	In situ pelagic dataset from continuous monitoring: A mesocosm experiment in Lake Geneva (MESOLAC). <i>Data in Brief</i> , 2020, 32, 106255.	0.5	4

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109	Sentinel lakes: a network for the study and management of mountain lakes in the French Alps and in Corsica. <i>Eco Mont</i> , 2014, 5, 63-69.	0.1	4
110	Strategies and mechanisms of resistance to viruses in photosynthetic aquatic microorganisms. <i>Advances in Oceanography and Limnology</i> , 2012, 3, 1.	0.2	3
111	Physico-chemical dataset from an in situ mesocosm experiment simulating extreme climate events in Lake Geneva (MESOLAC). <i>Data in Brief</i> , 2021, 36, 107150.	0.5	2
112	Die hard in Lake Bourget! The case of <i>Planktothrix rubescens</i> reborn. <i>Annales De Limnologie</i> , 2021, 57, 19.	0.6	2
113	Bernard Dussart (1922-2008). <i>Journal of Plankton Research</i> , 2008, 31, 345-348.	0.8	1
114	Classification de l'état écologique du réservoir Marne via l'utilisation de 3 paramètres : chlorophylle a, indice planctonique lacustre et phosphore total. <i>Hydroecologie Appliquée</i> , 2010, 17, 99-110.	1.3	1
115	Short-Term Dynamics of <i>Bdellovibrio</i> and Like Organisms in Lake Geneva in Response to a Simulated Climatic Extreme Event. <i>Microbial Ecology</i> , 2021, , 1.	1.4	1
116	Virus Interactions in the Aquatic World. , 2018, , .		0
117	Methods and Technologies to Assess Viral Interactions in the Aquatic World. , 2018, , .		0
118	A few words from the new Editor-in-Chief. , 2022, 58, E1.		0
119	Viruses of microbes: structures and functions, from molecules to communities. <i>Virologie</i> , 2014, 18, 297-300.	0.1	0