

# StÃ©phan Jacquet

## List of Publications by Year in descending order

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119  
papers

7,075  
citations

57719

44  
h-index

64755

79  
g-index

126  
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126  
docs citations

126  
times ranked

7405  
citing authors

#	ARTICLE	IF	CITATIONS
1	<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
2	A few words from the new Editor-in-Chief. , 2022, 58, E1.		0
3	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
4	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
5	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
6	Die hard in Lake Bourget! The case of <i>Planktothrix rubescens</i> reborn. <i>Annales De Limnologie</i> , 2021, 57, 19.	0.6	2
7	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
8	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
9	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
10	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
11	Scientists' Warning to Humanity: Rapid degradation of the world's large lakes. <i>Journal of Great Lakes Research</i> , 2020, 46, 686-702.	0.8	140
12	<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
13	The Observatory on LAkes (OLA) database: Sixty years of environmental data accessible to the public. <i>Journal of Limnology</i> , 2020, 79, .	0.3	51
14	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
15	Widespread diminishing anthropogenic effects on calcium in freshwaters. <i>Scientific Reports</i> , 2019, 9, 10450.	1.6	84
16	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
17	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
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	Metabarcoding of lake benthic diatoms: from structure assemblages to ecological assessment. <i>Hydrobiologia</i> , 2018, 807, 37-51.	1.0	90
20	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
21	A New Freshwater Cyanosiphovirus Harboring Integrase. <i>Frontiers in Microbiology</i> , 2018, 9, 2204.	1.5	26
22	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
23	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
24	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
25	Virus Interactions in the Aquatic World. , 2018, , .		0
26	Methods and Technologies to Assess Viral Interactions in the Aquatic World. , 2018, , .		0
27	Deciphering the virus-to-prokaryote ratio (<math>\langle VPR \rangle</math>): insights into virus-host relationships in a variety of ecosystems. <i>Biological Reviews</i> , 2017, 92, 1081-1100.	4.7	153
28	Temperature is a key factor in <i>Micromonas</i> virus interactions. <i>ISME Journal</i> , 2017, 11, 601-612.	4.4	56
29	Effects of mixing on the pelagic food web in shallow lakes. <i>Freshwater Biology</i> , 2017, 62, 161-177.	1.2	20
30	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
31	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
32	Modelling the plankton groups of the deep, peri-alpine Lake Bourget. <i>Ecological Modelling</i> , 2017, 359, 415-433.	1.2	21
33	Blue-Green Algae in a "Greenhouse Century" New Insights from Field Data on Climate Change Impacts on Cyanobacteria Abundance. <i>Ecosystems</i> , 2015, 18, 441-458.	1.6	45
34	Structure and diversity of ssDNA Microviridae viruses in two peri-alpine lakes (Annecy and Bourget). <i>Journal of Virology</i> , 2015, 89, 1070-1078.	1.0	35
35	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
36	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

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37	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
38	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
39	Differing assemblage composition and dynamics in <sc>T</sc>4€like myophages of two neighbouring sub€alpine lakes. <i>Freshwater Biology</i> , 2014, 59, 1577-1595.	1.2	14
40	Contrasting diversity of phycodnavirus signature genes in two large and deep western <sc>E</sc>uropean lakes. <i>Environmental Microbiology</i> , 2014, 16, 759-773.	1.8	15
41	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
42	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
43	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
44	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
45	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
46	Viruses of microbes: structures and functions, from molecules to communities. <i>Virologie</i> , 2014, 18, 297-300.	0.1	0
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	Short-term responses of unicellular planktonic eukaryotes to increases in temperature and UVB radiation. <i>BMC Microbiology</i> , 2012, 12, 202.	1.3	5
56	Genomics of Algal Host-Virus Interactions. <i>Advances in Botanical Research</i> , 2012, , 343-381.	0.5	15
57	Strategies and mechanisms of resistance to viruses in photosynthetic aquatic microorganisms. <i>Advances in Oceanography and Limnology</i> , 2012, 3, 1.	0.2	3
58	Dynamics of various viral groups infecting autotrophic plankton in Lake Geneva. <i>Advances in Oceanography and Limnology</i> , 2012, 3, 171.	0.2	5
59	Picoheterotroph (&lt;i>Bacteria&lt;/i> and Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (&lt;i>Science Data, 2012, 4, 101-106.	3.7	30
60	Picophytoplankton biomass distribution in the global ocean. <i>Earth System Science Data</i> , 2012, 4, 37-46.	3.7	197
61	The plankton community in Norwegian coastal waters abundance, composition, spatial distribution and diel variation. <i>Continental Shelf Research</i> , 2011, 31, 1500-1514.	0.9	20
62	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
63	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
64	Ecological traits of planktonic viruses and prokaryotes along a full-salinity gradient. <i>FEMS Microbiology Ecology</i> , 2011, 76, 360-372.	1.3	47
65	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
66	Effect of grazers and viruses on bacterial community structure and production in two contrasting trophic lakes. <i>BMC Microbiology</i> , 2011, 11, 88.	1.3	44
67	Bottom-Up versus Top-Down Control of Hypo- and Epilimnion Free-Living Bacterial Community Structures in Two Neighboring Freshwater Lakes. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3591-3599.	1.4	47
68	Indirect interactions in the microbial world: specificities and similarities to plant-insect systems. <i>Population Ecology</i> , 2010, 52, 475-483.	0.7	12
69	Flow cytometry sorting of freshwater phytoplankton. <i>Journal of Applied Phycology</i> , 2010, 22, 87-100.	1.5	65
70	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
71	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
72	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, 97-141.	0.2	45

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73	Classification de lâ€™Ã©tat Ã©cologique du rÃ©servoir Marne via lâ€™utilisation de 3 mÃ©triques : chlorophylle, indice planctonique lacustre et phosphore total. <i>Hydroecologie Appliquee</i> , 2010, 17, 99-110.	1.3	1
74	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
75	Seasonal variations of microbial abundances and virus- versus flagellate-induced mortality of picoplankton in three peri-alpine lakes. <i>Journal of Plankton Research</i> , 2009, 31, 1161-1177.	0.8	55
76	Seasonal and spatial variability of virio-, bacterio-, and picophytoplanktonic abundances in three peri-alpine lakes. <i>Hydrobiologia</i> , 2009, 627, 99-116.	1.0	53
77	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
78	Short-term variations in abundances and potential activities of viruses, bacteria and nanoprotoists in Lake Bourget. <i>Ecological Research</i> , 2008, 23, 851-861.	0.7	16
79	Temporal Variations of Microbial Activity and Diversity in Marine Tropical Sediments (New Caledonia) Tj ETQq1 1 0.784314 rgBT /Ove	1.4	35
80	Viriobenthos in freshwater and marine sediments: a review. <i>Freshwater Biology</i> , 2008, 53, 1186-1213.	1.2	125
81	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
82	Barium in twilight zone suspended matter as a potential proxy for particulate organic carbon remineralization: Results for the North Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 1673-1683.	0.6	53
83	Bernard Dussart (1922-2008). <i>Journal of Plankton Research</i> , 2008, 31, 345-348.	0.8	1
84	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
85	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
86	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
87	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
88	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
89	Comparing taxonomic and morphological biodiversity of tintinnids (planktonic ciliates) of New Caledonia. <i>Limnology and Oceanography</i> , 2006, 51, 950-958.	1.6	42
90	Microbial Community Structure and Dynamics in the Largest Natural French Lake (Lake Bourget). <i>Microbial Ecology</i> , 2006, 52, 72-89.	1.4	59

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91	Relative importance of nutrients and mortality factors on prokaryotic community composition in two lakes of different trophic status: Microcosm experiments. <i>FEMS Microbiology Ecology</i> , 2005, 53, 429-443.	1.3	43
92	Estimates of protozoan- and viral-mediated mortality of bacterioplankton in Lake Bourget (France). <i>Freshwater Biology</i> , 2005, 50, 627-645.	1.2	89
93	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
94	Testing the direct effect of CO <sub>2</sub> 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
95	Response of primary production and calcification to changes of pCO <sub>2</sub> during experimental blooms of the coccolithophorid <i>Emiliana huxleyi</i> . <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	1.9	215
96	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
97	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
98	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
99	Transparent exopolymer particles and dissolved organic carbon production by <i>Emiliana huxleyi</i> exposed to different CO <sub>2</sub> concentrations: a mesocosm experiment. <i>Aquatic Microbial Ecology</i> , 2004, 34, 93-104.	0.9	172
100	Chromophoric dissolved organic matter in experimental mesocosms maintained under different pCO <sub>2</sub> levels. <i>Marine Ecology - Progress Series</i> , 2004, 272, 25-31.	0.9	58
101	Routine quantification of phytoplankton groups – microscopy or pigment analyses?. <i>Marine Ecology - Progress Series</i> , 2004, 273, 31-42.	0.9	81
102	Effects of ultraviolet radiation on marine virus-phytoplankton interactions. <i>FEMS Microbiology Ecology</i> , 2003, 44, 279-289.	1.3	59
103	Health hazards for terrestrial vertebrates from toxic cyanobacteria in surface water ecosystems. <i>Veterinary Research</i> , 2003, 34, 361-377.	1.1	247
104	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
105	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
106	Short-timescale variability of picophytoplankton abundance and cellular parameters in surface waters of the Alboran Sea (western Mediterranean). <i>Journal of Plankton Research</i> , 2002, 24, 635-651.	0.8	53
107	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
108	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

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109	Effects of inorganic and organic nutrient addition on a coastal microbial community (Isefjord,) Tj ETQq1 1 0.784314 rgBT /Overlock 101	0.9	48
110	DIEL PATTERNS OF GROWTH AND DIVISION IN MARINE PICOPLANKTON IN CULTURE. Journal of Phycology, 2001, 37, 357.	1.0	109
111	Cell Cycle Regulation by Light in Prochlorococcus Strains. Applied and Environmental Microbiology, 2001, 67, 782-790.	1.4	73
112	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
113	Grazing impact of two small heterotrophic flagellates on Prochlorococcus and Synechococcus. Aquatic Microbial Ecology, 2001, 26, 201-207.	0.9	69
114	Growth and grazing on Prochlorococcus and Synechococcus by two marine ciliates. Limnology and Oceanography, 1999, 44, 52-61.	1.6	121
115	Auxin Production Is a Common Feature of Most Pathovars of Pseudomonas syringae. Molecular Plant-Microbe Interactions, 1998, 11, 156-162.	1.4	185
116	Picoplankton population dynamics in coastal waters of the northwestern Mediterranean Sea. Limnology and Oceanography, 1998, 43, 1916-1931.	1.6	100
117	Application of a compact automatic sea water sampler to high frequency picoplankton studies. Aquatic Microbial Ecology, 1998, 14, 309-314.	0.9	17
118	Enumeration and Cell Cycle Analysis of Natural Populations of Marine Picoplankton by Flow Cytometry Using the Nucleic Acid Stain SYBR Green I. Applied and Environmental Microbiology, 1997, 63, 186-193.	1.4	937
119	Assessing the microbial community dynamics and the role of bacteriophages in bacterial mortality in Lake Geneva. Revue Des Sciences De L'Eau, 0, 19, 115-126.	0.2	11