

# Jakob Pernthaler

## List of Publications by Year in descending order

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91  
papers

9,628  
citations

43973

48  
h-index

45213

90  
g-index

91  
all docs

91  
docs citations

91  
times ranked

8052  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial microheterogeneity and selective microbial consumption of dissolved free amino acids in an oligomesotrophic lake. <i>Limnology and Oceanography</i> , 2021, 66, 3728-3739.	1.6	1
2	The biogeochemical variability of Arctic thermokarst ponds is reflected by stochastic and niche-driven microbial community assembly processes. <i>Environmental Microbiology</i> , 2020, 22, 4847-4862.	1.8	13
3	Biomass addition alters community assembly in ultrafiltration membrane biofilms. <i>Scientific Reports</i> , 2020, 10, 11552.	1.6	2
4	Bacterial and Eukaryotic Small-Subunit Amplicon Data Do Not Provide a Quantitative Picture of Microbial Communities, but They Are Reliable in the Context of Ecological Interpretations. <i>MSphere</i> , 2020, 5, .	1.3	65
5	Homeostatic regulation of dissolved labile organic substrates by consumption and release processes in a freshwater lake. <i>Limnology and Oceanography</i> , 2020, 65, 939-950.	1.6	2
6	Seasonality of the antibiotic resistance gene blaCTX-M in temperate Lake Maggiore. <i>Hydrobiologia</i> , 2019, 843, 143-153.	1.0	10
7	Priming of microcystin degradation in carbon-amended membrane biofilm communities is promoted by oxygen-limited conditions. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	1.3	3
8	Source Community and Assembly Processes Affect the Efficiency of Microbial Microcystin Degradation on Drinking Water Filtration Membranes. <i>Frontiers in Microbiology</i> , 2019, 10, 843.	1.5	4
9	Priming of microbial microcystin degradation in biomass-fed gravity driven membrane filtration biofilms. <i>Systematic and Applied Microbiology</i> , 2018, 41, 221-231.	1.2	16
10	Microdiversification in genome-streamlined ubiquitous freshwater Actinobacteria. <i>ISME Journal</i> , 2018, 12, 185-198.	4.4	227
11	Spatiotemporal distribution and microbial assimilation of polyamines in a mesotrophic lake. <i>Limnology and Oceanography</i> , 2018, 63, 816-832.	1.6	11
12	Assessing the Influence of Vegan, Vegetarian and Omnivore Oriented Westernized Dietary Styles on Human Gut Microbiota: A Cross Sectional Study. <i>Frontiers in Microbiology</i> , 2018, 9, 317.	1.5	78
13	Distribution and ecological preferences of the freshwater lineage <i>L</i> ( <i>genus L</i> ) revealed by a new double hybridization approach. <i>Environmental Microbiology</i> , 2017, 19, 1296-1309.	1.8	54
14	Competition and niche separation of pelagic bacteria in freshwater habitats. <i>Environmental Microbiology</i> , 2017, 19, 2133-2150.	1.8	50
15	Letting go: bacterial genome reduction solves the dilemma of adapting to predation mortality in a substrate-restricted environment. <i>ISME Journal</i> , 2017, 11, 2258-2266.	4.4	14
16	Phenology of cryptomonads and the CRY1 lineage in a coastal brackish lagoon (Vistula Lagoon, Baltic) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.6	33
17	Prolongation, deepening and warming of the metalimnion change habitat conditions of the harmful filamentous cyanobacterium <i>Planktothrix rubescens</i> in a prealpine lake. <i>Hydrobiologia</i> , 2016, 776, 125-138.	1.0	23
18	Comparative effects of nodularin and microcystin-LR in zebrafish: 1. Uptake by organic anion transporting polypeptide Oatp1d1 ( <i>Slco1d1</i> ). <i>Aquatic Toxicology</i> , 2016, 171, 69-76.	1.9	30

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19	Comparative effects of nodularin and microcystin-LR in zebrafish: 2. Uptake and molecular effects in eleuthero-embryos and adult liver with focus on endoplasmic reticulum stress. <i>Aquatic Toxicology</i> , 2016, 171, 77-87.	1.9	21
20	High-throughput determination of dissolved free amino acids in unconcentrated freshwater by ion-pairing liquid chromatography and mass spectrometry. <i>Journal of Chromatography A</i> , 2016, 1440, 85-93.	1.8	15
21	Network of Interactions Between Ciliates and Phytoplankton During Spring. <i>Frontiers in Microbiology</i> , 2015, 6, 1289.	1.5	80
22	Ecology and Distribution of Thaumarchaea in the Deep Hypolimnion of Lake Maggiore. <i>Archaea</i> , 2015, 2015, 1-11.	2.3	32
23	Fluorescence in situ hybridization and sequential catalyzed reporter deposition (2C-FISH) for the flow cytometric sorting of freshwater ultramicrobacteria. <i>Frontiers in Microbiology</i> , 2015, 6, 247.	1.5	19
24	The ecology of pelagic freshwater methylotrophs assessed by a high-resolution monitoring and isolation campaign. <i>ISME Journal</i> , 2015, 9, 2442-2453.	4.4	137
25	Bacterial diversity and composition in the fluid of pitcher plants of the genus <i>Nepenthes</i> . <i>Systematic and Applied Microbiology</i> , 2015, 38, 330-339.	1.2	27
26	Seasonal patterns of microcystin-producing and non-producing <i>Planktothrix rubescens</i> genotypes in a deep pre-alpine lake. <i>Harmful Algae</i> , 2015, 50, 21-31.	2.2	8
27	Seasonal growth potential of rare lake water bacteria suggest their disproportional contribution to carbon fluxes. <i>Environmental Microbiology</i> , 2015, 17, 781-795.	1.8	59
28	Biodegradation of Microcystins during Gravity-Driven Membrane (GDM) Ultrafiltration. <i>PLoS ONE</i> , 2014, 9, e111794.	1.1	35
29	Bacterial community structure and dissolved organic matter in repeatedly flooded subsurface karst water pools. <i>FEMS Microbiology Ecology</i> , 2014, 89, 111-126.	1.3	48
30	Bacterial epibionts of <i>Daphnia</i> : a potential route for the transfer of dissolved organic carbon in freshwater food webs. <i>ISME Journal</i> , 2014, 8, 1808-1819.	4.4	65
31	The toxicity and enzyme activity of a chlorine and sulfate containing aeruginosin isolated from a non-microcystin-producing <i>Planktothrix</i> strain. <i>Harmful Algae</i> , 2014, 39, 154-160.	2.2	35
32	A novel ion-exclusion chromatography–mass spectrometry method to measure concentrations and cycling rates of carbohydrates and amino sugars in freshwaters. <i>Journal of Chromatography A</i> , 2014, 1365, 115-123.	1.8	15
33	Molecular effects of the cyanobacterial toxin cyanopeptolin (CP1020) occurring in algal blooms: Global transcriptome analysis in zebrafish embryos. <i>Aquatic Toxicology</i> , 2014, 149, 33-39.	1.9	50
34	Activity of metazoa governs biofilm structure formation and enhances permeate flux during Gravity-Driven Membrane (GDM) filtration. <i>Water Research</i> , 2013, 47, 2085-2095.	5.3	136
35	<i>In situ</i> substrate preferences of abundant bacterioplankton populations in a prealpine freshwater lake. <i>ISME Journal</i> , 2013, 7, 896-907.	4.4	131
36	Freshwater Microbial Communities. , 2013, , 97-112.		25

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37	Mass effects meet species sorting: transformations of microbial assemblages in epiphreatic subsurface karst water pools. <i>Environmental Microbiology</i> , 2013, 15, 2476-2488.	1.8	42
38	Coaggregation in a microbial predator-prey system affects competition and trophic transfer efficiency. <i>Ecology</i> , 2013, 94, 870-881.	1.5	50
39	Seasonal dynamics and activity of typical freshwater bacteria in brackish waters of the Gulf of Gdansk. <i>Limnology and Oceanography</i> , 2013, 58, 817-826.	1.6	34
40	Short-term displacement of <i>Planktothrix rubescens</i> (cyanobacteria) in a prealpine lake observed using an autonomous sampling platform. <i>Limnology and Oceanography</i> , 2013, 58, 1892-1906.	1.6	28
41	Environmental Dynamics as a Structuring Factor for Microbial Carbon Utilization in a Subtropical Coastal Lagoon. <i>Frontiers in Microbiology</i> , 2013, 4, 14.	1.5	12
42	Grazing resistant freshwater bacteria profit from chitin and cell-wall-derived organic carbon. <i>Environmental Microbiology</i> , 2013, 15, 2019-2030.	1.8	42
43	Harmful filamentous cyanobacteria favoured by reduced water turnover with lake warming. <i>Nature Climate Change</i> , 2012, 2, 809-813.	8.1	300
44	Suboptimal light conditions negatively affect the heterotrophy of <i>Planktothrix rubescens</i> but are beneficial for accompanying <i>Limnohabitans</i> spp.. <i>Environmental Microbiology</i> , 2012, 14, 765-778.	1.8	9
45	Rapid successions affect microbial N-acetylglucosamine uptake patterns during a lacustrine spring phytoplankton bloom. <i>Environmental Microbiology</i> , 2012, 14, 794-806.	1.8	100
46	Enrichment of Omnivorous Cercozoan Nanoflagellates from Coastal Baltic Sea Waters. <i>PLoS ONE</i> , 2011, 6, e24415.	1.1	8
47	Seasonal bloom dynamics and ecophysiology of the freshwater sister clade of SAR11 bacteria that rule the waves™ (LD12). <i>ISME Journal</i> , 2011, 5, 1242-1252.	4.4	173
48	Quantitative dominance of seasonally persistent filamentous cyanobacteria ( <i>Planktothrix</i> ) in a prealpine lake. <i>Limnology and Oceanography</i> , 2011, 56, 97-109.	1.6	49
49	Vertical and longitudinal distribution patterns of different bacterioplankton populations in a canyon-shaped, deep prealpine lake. <i>Limnology and Oceanography</i> , 2011, 56, 2027-2039.	1.6	55
50	Spatiotemporal distribution and activity patterns of bacteria from three phylogenetic groups in an oligomesotrophic lake. <i>Limnology and Oceanography</i> , 2010, 55, 846-856.	1.6	53
51	Antibiotic effects of three strains of chrysophytes ( <i>Ochromonas</i> , <i>Poterioochromonas</i> ) on freshwater bacterial isolates. <i>FEMS Microbiology Ecology</i> , 2010, 71, 281-290.	1.3	42
52	Seasonal population dynamics and trophic role of planktonic nanoflagellates in coastal surface waters of the Southern Baltic Sea. <i>Environmental Microbiology</i> , 2010, 12, 364-377.	1.8	74
53	Karst pools in subsurface environments: collectors of microbial diversity or temporary residence between habitat types. <i>Environmental Microbiology</i> , 2010, 12, 1061-1074.	1.8	55
54	Leucine-to-carbon empirical conversion factor experiments: does bacterial community structure have an influence?. <i>Environmental Microbiology</i> , 2010, 12, 2988-2997.	1.8	17

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55	Automated Quantification and Sizing of Unbranched Filamentous Cyanobacteria by Model-Based Object-Oriented Image Analysis. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1615-1622.	1.4	19
56	Scent of Danger: Floc Formation by a Freshwater Bacterium Is Induced by Supernatants from a Predator-Prey Coculture. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6156-6163.	1.4	42
57	A global network of coexisting microbes from environmental and whole-genome sequence data. <i>Genome Research</i> , 2010, 20, 947-959.	2.4	425
58	Spatiotemporal distribution and activity patterns of bacteria from three phylogenetic groups in an oligomesotrophic lake. <i>Limnology and Oceanography</i> , 2010, 55, 846-856.	1.6	31
59	Ecophysiological differences of betaproteobacterial populations in two hydrochemically distinct compartments of a subtropical lagoon. <i>Environmental Microbiology</i> , 2009, 11, 867-876.	1.8	33
60	Substrate incorporation patterns of bacterioplankton populations in stratified and mixed waters of a humic lake. <i>Environmental Microbiology</i> , 2009, 11, 1854-1865.	1.8	84
61	Latitudinal distribution of prokaryotic picoplankton populations in the Atlantic Ocean. <i>Environmental Microbiology</i> , 2009, 11, 2078-2093.	1.8	219
62	A small population of planktonic <i>Flavobacteria</i> with disproportionately high growth during the spring phytoplankton bloom in a prealpine lake. <i>Environmental Microbiology</i> , 2009, 11, 2676-2686.	1.8	80
63	Spatio-temporal niche separation of planktonic <i>Betaproteobacteria</i> in an oligo-mesotrophic lake. <i>Environmental Microbiology</i> , 2008, 10, 2074-2086.	1.8	87
64	Colonization of overlaying water by bacteria from dry river sediments. <i>Environmental Microbiology</i> , 2008, 10, 2760-2772.	1.8	54
65	Microbes Enriched in Seawater after Addition of Coral Mucus. <i>Applied and Environmental Microbiology</i> , 2008, 74, 3274-3278.	1.4	66
66	High local and global diversity of <i>Flavobacteria</i> in marine plankton. <i>Environmental Microbiology</i> , 2007, 9, 1253-1266.	1.8	176
67	Response of <i>Alteromonadaceae</i> and <i>Rhodobacteriaceae</i> to glucose and phosphorus manipulation in marine mesocosms. <i>Environmental Microbiology</i> , 2007, 9, 2417-2429.	1.8	143
68	Seasonality in bacterial diversity in north-west Mediterranean coastal waters: assessment through clone libraries, fingerprinting and FISH. <i>FEMS Microbiology Ecology</i> , 2007, 60, 98-112.	1.3	195
69	<i>Roseobacter</i> and SAR11 dominate microbial glucose uptake in coastal North Sea waters. <i>Environmental Microbiology</i> , 2006, 8, 2022-2030.	1.8	170
70	Blooms of Single Bacterial Species in a Coastal Lagoon of the Southwestern Atlantic Ocean. <i>Applied and Environmental Microbiology</i> , 2006, 72, 6560-6568.	1.4	65
71	Concentration-Dependent Patterns of Leucine Incorporation by Coastal Picoplankton. <i>Applied and Environmental Microbiology</i> , 2006, 72, 2141-2147.	1.4	69
72	Predation on prokaryotes in the water column and its ecological implications. <i>Nature Reviews Microbiology</i> , 2005, 3, 537-546.	13.6	678

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73	Diurnal Variation of Cell Proliferation in Three Bacterial Taxa from Coastal North Sea Waters. <i>Applied and Environmental Microbiology</i> , 2005, 71, 4638-4644.	1.4	34
74	Abundances, Identity, and Growth State of Actinobacteria in Mountain Lakes of Different UV Transparency. <i>Applied and Environmental Microbiology</i> , 2005, 71, 5551-5559.	1.4	220
75	Incorporation of Glucose under Anoxic Conditions by Bacterioplankton from Coastal North Sea Surface Waters. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1709-1716.	1.4	80
76	Combining Catalyzed Reporter Deposition-Fluorescence In Situ Hybridization and Microautoradiography To Detect Substrate Utilization by Bacteria and Archaea in the Deep Ocean. <i>Applied and Environmental Microbiology</i> , 2004, 70, 4411-4414.	1.4	316
77	Bloom of Filamentous Bacteria in a Mesotrophic Lake: Identity and Potential Controlling Mechanism. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6272-6281.	1.4	87
78	Actinobacterial 16S rRNA genes from freshwater habitats cluster in four distinct lineages. <i>Environmental Microbiology</i> , 2004, 6, 242-253.	1.8	238
79	Automated Enumeration of Groups of Marine Picoplankton after Fluorescence In Situ Hybridization. <i>Applied and Environmental Microbiology</i> , 2003, 69, 2631-2637.	1.4	94
80	Members of a Readily Enriched $\hat{1}^2$ -Proteobacterial Clade Are Common in Surface Waters of a Humic Lake. <i>Applied and Environmental Microbiology</i> , 2003, 69, 6550-6559.	1.4	138
81	An Improved Protocol for Quantification of Freshwater Actinobacteria by Fluorescence In Situ Hybridization. <i>Applied and Environmental Microbiology</i> , 2003, 69, 2928-2935.	1.4	279
82	Are Readily Culturable Bacteria in Coastal North Sea Waters Suppressed by Selective Grazing Mortality?. <i>Applied and Environmental Microbiology</i> , 2003, 69, 2624-2630.	1.4	109
83	Isolation of Novel Pelagic Bacteria from the German Bight and Their Seasonal Contributions to Surface Picoplankton. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5134-5142.	1.4	238
84	Growth Patterns of Two Marine Isolates: Adaptations to Substrate Patchiness?. <i>Applied and Environmental Microbiology</i> , 2001, 67, 4077-4083.	1.4	65
85	Predator-Specific Enrichment of Actinobacteria from a Cosmopolitan Freshwater Clade in Mixed Continuous Culture. <i>Applied and Environmental Microbiology</i> , 2001, 67, 2145-2155.	1.4	125
86	Changes in Bacterial Community Composition and Dynamics and Viral Mortality Rates Associated with Enhanced Flagellate Grazing in a Mesoeutrophic Reservoir. <i>Applied and Environmental Microbiology</i> , 2001, 67, 2723-2733.	1.4	340
87	Comparative 16S rRNA Analysis of Lake Bacterioplankton Reveals Globally Distributed Phylogenetic Clusters Including an Abundant Group of Actinobacteria. <i>Applied and Environmental Microbiology</i> , 2000, 66, 5053-5065.	1.4	593
88	Culturability and In Situ Abundance of Pelagic Bacteria from the North Sea. <i>Applied and Environmental Microbiology</i> , 2000, 66, 3044-3051.	1.4	577
89	Succession of Pelagic Marine Bacteria during Enrichment: a Close Look at Cultivation-Induced Shifts. <i>Applied and Environmental Microbiology</i> , 2000, 66, 4634-4640.	1.4	241
90	Morphological and Compositional Changes in a Planktonic Bacterial Community in Response to Enhanced Protozoan Grazing. <i>Applied and Environmental Microbiology</i> , 1999, 65, 1241-1250.	1.4	238

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91	Seasonal Community and Population Dynamics of Pelagic Bacteria and Archaea in a High Mountain Lake. Applied and Environmental Microbiology, 1998, 64, 4299-4306.	1.4	263