

# Jakob Zopfi

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

4,260  
citations

109321

35  
h-index

110387

64  
g-index

77  
all docs

77  
docs citations

77  
times ranked

5116  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular detection of anammox bacteria in terrestrial ecosystems: distribution and diversity. ISME Journal, 2010, 4, 450-454.	9.8	247
2	Nitrogen, Carbon, and Sulfur Metabolism in Natural <i>Thioploca</i> Samples. Applied and Environmental Microbiology, 1999, 65, 3148-3157.	3.1	223
3	Sulfate reduction and anaerobic methane oxidation in Black Sea sediments. Deep-Sea Research Part I: Oceanographic Research Papers, 2001, 48, 2097-2120.	1.4	222
4	Volatiles produced by soil-borne endophytic bacteria increase plant pathogen resistance and affect tritrophic interactions. Plant, Cell and Environment, 2014, 37, 813-826.	5.7	214
5	Composition of bacterial and archaeal communities in freshwater sediments with different contamination levels (Lake Geneva, Switzerland). Water Research, 2011, 45, 1213-1228.	11.3	192
6	Influence of water column dynamics on sulfide oxidation and other major biogeochemical processes in the chemocline of Mariager Fjord (Denmark). Marine Chemistry, 2001, 74, 29-51.	2.3	142
7	Dynamics and interaction of organic carbon, turbidity and bacteria in a karst aquifer system. Hydrogeology Journal, 2006, 14, 473-484.	2.1	142
8	Carbon and Chlorine Isotope Fractionation during Aerobic Oxidation and Reductive Dechlorination of Vinyl Chloride and <i>cis</i> -1,2-Dichloroethene. Environmental Science & Technology, 2009, 43, 101-107.	10.0	133
9	Distribution of Sulfate-Reducing and Methanogenic Bacteria in Anaerobic Aggregates Determined by Microsensor and Molecular Analyses. Applied and Environmental Microbiology, 1999, 65, 4618-4629.	3.1	131
10	Microaerobic bacterial methane oxidation in the chemocline and anoxic water column of deep south-Alpine Lake Lugano (Switzerland). Limnology and Oceanography, 2014, 59, 311-324.	3.1	129
11	Percolation and Particle Transport in the Unsaturated Zone of a Karst Aquifer. Ground Water, 2009, 47, 361-369.	1.3	123
12	Particle-Size Distribution As Indicator for Fecal Bacteria Contamination of Drinking Water from Karst Springs. Environmental Science & Technology, 2007, 41, 8400-8405.	10.0	122
13	Microbial communities in karst groundwater and their potential use for biomonitoring. Hydrogeology Journal, 2009, 17, 37-48.	2.1	119
14	Ecology of <i>Thioploca</i> spp.: Nitrate and Sulfur Storage in Relation to Chemical Microgradients and Influence of <i>Thioploca</i> spp. on the Sedimentary Nitrogen Cycle. Applied and Environmental Microbiology, 2001, 67, 5530-5537.	3.1	105
15	Anaerobic ammonium oxidation (anammox) bacteria and sulfide-dependent denitrifiers coexist in the water column of a meromictic south-Alpine lake. Limnology and Oceanography, 2013, 58, 1-12.	3.1	104
16	<i>Geobacteraceae</i> are important members of mercury-methylating microbial communities of sediments impacted by waste water releases. ISME Journal, 2018, 12, 802-812.	9.8	96
17	Redox-dependent niche differentiation provides evidence for multiple bacterial sources of glycerol tetraether lipids in lakes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10926-10931.	7.1	94
18	Extremely elevated methyl mercury levels in water, sediment and organisms in a Romanian reservoir affected by release of mercury from a chlor-alkali plant. Water Research, 2014, 49, 391-405.	11.3	93

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19	Fungi, bacteria and soil <scp>pH</scp>: the oxalateâ€“carbonate pathway as a model for metabolic interaction. <i>Environmental Microbiology</i> , 2012, 14, 2960-2970.	3.8	91
20	Abundance of anammox bacteria in different wetland soils. <i>Environmental Microbiology Reports</i> , 2012, 4, 484-490.	2.4	83
21	Photoferrotrophy: Remains of an Ancient Photosynthesis in Modern Environments. <i>Frontiers in Microbiology</i> , 2017, 08, 323.	3.5	75
22	Biogeochemistry of sulfur and iron in Thioploca-colonized surface sediments in the upwelling area off central chile. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 827-843.	3.9	73
23	Evaluating the fate of chlorinated ethenes in streambed sediments by combining stable isotope, geochemical and microbial methods. <i>Journal of Contaminant Hydrology</i> , 2009, 107, 10-21.	3.3	70
24	Effects of low oxygen concentrations on aerobic methane oxidation in seasonally hypoxic coastal waters. <i>Biogeosciences</i> , 2017, 14, 1631-1645.	3.3	66
25	Phototrophic Fe(II)-oxidation in the chemocline of a ferruginous meromictic lake. <i>Frontiers in Microbiology</i> , 2014, 5, 713.	3.5	61
26	High methylmercury production under ferruginous conditions in sediments impacted by sewage treatment plant discharges. <i>Water Research</i> , 2015, 80, 245-255.	11.3	57
27	Manganese/ironâ€“supported sulfateâ€“dependent anaerobic oxidation of methane by archaea in lake sediments. <i>Limnology and Oceanography</i> , 2020, 65, 863-875.	3.1	54
28	Community N and O isotope fractionation by sulfide-dependent denitrification and anammox in a stratified lacustrine water column. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 125, 551-563.	3.9	53
29	Biogeochemistry of an Iron-Rich Hypersaline Microbial Mat (Camargue, France). <i>Microbial Ecology</i> , 2005, 49, 34-49.	2.8	48
30	Isotopic constraints on water source mixing, network leakage and contamination in an urban groundwater system. <i>Science of the Total Environment</i> , 2017, 583, 202-213.	8.0	48
31	Comprehensive dataset of shotgun metagenomes from oxygen stratified freshwater lakes and ponds. <i>Scientific Data</i> , 2021, 8, 131.	5.3	48
32	Molecular and geochemical constraints on anaerobic ammonium oxidation (anammox) in a riparian zone of the Seine Estuary (France). <i>Biogeochemistry</i> , 2015, 123, 237-250.	3.5	47
33	Bio-inoculation of yerba mate seedlings ( <i>Ilex paraguariensis</i> St. Hill.) with native plant growth-promoting rhizobacteria: a sustainable alternative to improve crop yield. <i>Biology and Fertility of Soils</i> , 2015, 51, 749-755.	4.3	46
34	Life on the edge: active microbial communities in the Kryos MgCl <sub>2</sub> -brine basin at very low water activity. <i>ISME Journal</i> , 2018, 12, 1414-1426.	9.8	42
35	Methanotrophy under Versatile Conditions in the Water Column of the Ferruginous Meromictic Lake La Cruz (Spain). <i>Frontiers in Microbiology</i> , 2016, 7, 1762.	3.5	41
36	Characterizing Water Circulation and Contaminant Transport in Lake Geneva Using Bacteriophage Tracer Experiments and Limnological Methods. <i>Environmental Science &amp; Technology</i> , 2007, 41, 5252-5258.	10.0	38

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37	Shifts in mercury methylation across a peatland chronosequence: From sulfate reduction to methanogenesis and syntrophy. <i>Journal of Hazardous Materials</i> , 2020, 387, 121967.	12.4	38
38	Intrinsic biodegradation potential of aromatic hydrocarbons in an alluvial aquifer – Potentials and limits of signature metabolite analysis and two stable isotope-based techniques. <i>Water Research</i> , 2011, 45, 4459-4469.	11.3	34
39	Ice nucleators, bacterial cells and <i>Pseudomonas syringae</i> in precipitation at Jungfrauoch. <i>Biogeosciences</i> , 2017, 14, 1189-1196.	3.3	33
40	Spatial variations in surface water methane super-saturation and emission in Lake Lugano, southern Switzerland. <i>Aquatic Sciences</i> , 2015, 77, 535-545.	1.5	32
41	Rapid atrazine mineralisation in soil slurry and moist soil by inoculation of an atrazine-degrading <i>Pseudomonas</i> sp. strain. <i>Applied Microbiology and Biotechnology</i> , 1998, 49, 624-630.	3.6	31
42	Origin and spatial-temporal distribution of faecal bacteria in a bay of Lake Geneva, Switzerland. <i>Environmental Monitoring and Assessment</i> , 2009, 154, 337-348.	2.7	31
43	Powering up the ‘‘biogeochemical engine’’: the impact of exceptional ventilation of a deep meromictic lake on the lacustrine redox, nutrient, and methane balances. <i>Frontiers in Earth Science</i> , 2015, 3, .	1.8	31
44	Linked sediment and water-column methanotrophy at a man-made gas blowout in the North Sea: Implications for methane budgeting in seasonally stratified shallow seas. <i>Limnology and Oceanography</i> , 2016, 61, S367.	3.1	31
45	Partitioning between benthic and pelagic nitrate reduction in the Lake Lugano south basin. <i>Limnology and Oceanography</i> , 2014, 59, 1421-1433.	3.1	30
46	Bacterial methanotrophs drive the formation of a seasonal anoxic benthic nepheloid layer in an alpine lake. <i>Limnology and Oceanography</i> , 2014, 59, 1410-1420.	3.1	27
47	Differential N <sub>2</sub> O dynamics in two oxygen-deficient lake basins revealed by stable isotope and isotopomer distributions. <i>Limnology and Oceanography</i> , 2016, 61, 1735-1749.	3.1	26
48	New insights into the transport of sediments and microorganisms in karst groundwater by continuous monitoring of particle-size distribution. <i>Geologia Croatica</i> , 2010, 63, .	0.8	26
49	Controls of H <sub>2</sub> S, Fe <sup>2+</sup> , and Mn <sup>2+</sup> on Microbial NO <sub>3</sub> <sup>-</sup> -Reducing Processes in Sediments of an Eutrophic Lake. <i>Frontiers in Microbiology</i> , 2020, 11, 1158.	3.5	23
50	Methane oxidation in the waters of a humic-rich boreal lake stimulated by photosynthesis, nitrite, Fe(III) and humics. <i>Biogeosciences</i> , 2021, 18, 3087-3101.	3.3	20
51	Rivers as carriers and potential sentinels for <i>Burkholderia pseudomallei</i> in Laos. <i>Scientific Reports</i> , 2018, 8, 8674.	3.3	19
52	Distributions and sources of isoprenoidal GDGTs in Lake Lugano and other central European (peri-)alpine lakes: Lessons for their use as paleotemperature proxies. <i>Quaternary Science Reviews</i> , 2022, 277, 107352.	3.0	19
53	Use of particulate surrogates for assessing microbial mobility in subsurface ecosystems. <i>Hydrogeology Journal</i> , 2009, 17, 49-59.	2.1	18
54	Amino acid and amino sugar compositional changes during in vitro degradation of algal organic matter indicate rapid bacterial re-synthesis. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 283, 67-84.	3.9	18

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55	Effect of molecule size on carbon isotope fractionation during biodegradation of chlorinated alkanes by <i>Xanthobacter autotrophicus</i> GJ10. <i>Isotopes in Environmental and Health Studies</i> , 2009, 45, 18-26.	1.0	15
56	Targeted non-invasive bioindicator species detection in eDNA water samples to assess and monitor the integrity of vulnerable alpine freshwater environments. <i>Ecological Indicators</i> , 2021, 129, 107916.	6.3	15
57	Direct O <sub>2</sub> control on the partitioning between denitrification and dissimilatory nitrate reduction to ammonium in lake sediments. <i>Biogeosciences</i> , 2019, 16, 4705-4718.	3.3	14
58	Complete Genome Sequence of Alteromonas Virus vB_AspP-H4/4. <i>Genome Announcements</i> , 2017, 5, .	0.8	10
59	Lacustrine Groundwater Discharge Through Giant Pockmarks (Lake Neuchatel, Switzerland). <i>Frontiers in Water</i> , 2020, 2, .	2.3	9
60	Complete genome sequence of Pseudoalteromonas phage vB_PspS-H40/1 (formerly H40/1) that infects Pseudoalteromonas sp. strain H40 and is used as biological tracer in hydrological transport studies. <i>Standards in Genomic Sciences</i> , 2017, 12, 20.	1.5	8
61	Evaluating radioisotope-based approaches to measure anaerobic methane oxidation rates in lacustrine sediments. <i>Limnology and Oceanography: Methods</i> , 2019, 17, 429-438.	2.0	8
62	Environmental factors determining distribution and activity of anammox bacteria in minerotrophic fen soils. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	2.7	5
63	Multiple Groups of Methanotrophic Bacteria Mediate Methane Oxidation in Anoxic Lake Sediments. <i>Frontiers in Microbiology</i> , 2022, 13, .	3.5	4
64	Whole-Genome Assemblies of 16 Burkholderia pseudomallei Isolates from Rivers in Laos. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	3
65	Complete genome sequence of Pseudoalteromonas virus vB_PspP-H6/1 that infects Pseudoalteromonas sp. strain H6. <i>Marine Genomics</i> , 2019, 47, 100667.	1.1	2
66	Isotopic signatures of biotic and abiotic N <sub>2</sub> O production and consumption in the water column of meromictic, ferruginous Lake La Cruz (Spain). <i>Limnology and Oceanography</i> , 2022, 67, 1760-1775.	3.1	1