

# Michael HÃ¼gler

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

4,809  
citations

236925

25  
h-index

330143

37  
g-index

41  
all docs

41  
docs citations

41  
times ranked

5200  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Nitrosopumilus maritimus</i> genome reveals unique mechanisms for nitrification and autotrophy in globally distributed marine crenarchaea. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8818-8823.	7.1	853
2	Autotrophic carbon fixation in archaea. Nature Reviews Microbiology, 2010, 8, 447-460.	28.6	590
3	Beyond the Calvin Cycle: Autotrophic Carbon Fixation in the Ocean. Annual Review of Marine Science, 2011, 3, 261-289.	11.6	566
4	Ammonia-oxidizing archaea use the most energy-efficient aerobic pathway for CO <sub>2</sub> fixation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8239-8244.	7.1	396
5	Evidence for Autotrophic CO <sub>2</sub> Fixation via the Reductive Tricarboxylic Acid Cycle by Members of the $\mu$ Subdivision of Proteobacteria. Journal of Bacteriology, 2005, 187, 3020-3027.	2.2	245
6	Genome of the Epsilonproteobacterial Chemolithoautotroph <i>Sulfurimonas denitrificans</i> . Applied and Environmental Microbiology, 2008, 74, 1145-1156.	3.1	228
7	Physiological Proteomics of the Uncultured Endosymbiont of <i>Riftia pachyptila</i> . Science, 2007, 315, 247-250.	12.6	207
8	Autotrophic CO <sub>2</sub> fixation pathways in archaea (Crenarchaeota). Archives of Microbiology, 2003, 179, 160-173.	2.2	161
9	Malonyl-Coenzyme A Reductase from <i>Chloroflexus aurantiacus</i> , a Key Enzyme of the 3-Hydroxypropionate Cycle for Autotrophic CO <sub>2</sub> Fixation. Journal of Bacteriology, 2002, 184, 2404-2410.	2.2	145
10	The Genome of Deep-Sea Vent Chemolithoautotroph <i>Thiomicrospira crunogena</i> XCL-2. PLoS Biology, 2006, 4, e383.	5.6	144
11	Autotrophic CO <sub>2</sub> fixation via the reductive tricarboxylic acid cycle in different lineages within the phylum Aquificae: evidence for two ways of citrate cleavage. Environmental Microbiology, 2007, 9, 81-92.	3.8	139
12	Reversibility of citrate synthase allows autotrophic growth of a thermophilic bacterium. Science, 2018, 359, 563-567.	12.6	136
13	Characterization of acetyl-CoA/propionyl-CoA carboxylase in <i>Metallosphaera sedula</i> . FEBS Journal, 2003, 270, 736-744.	0.2	106
14	The Dark Side of the Mushroom Spring Microbial Mat: Life in the Shadow of Chlorophototrophs. II. Metabolic Functions of Abundant Community Members Predicted from Metagenomic Analyses. Frontiers in Microbiology, 2017, 8, 943.	3.5	100
15	Malonyl-Coenzyme A Reductase in the Modified 3-Hydroxypropionate Cycle for Autotrophic Carbon Fixation in Archaeal <i>Metallosphaera</i> and <i>Sulfolobus</i> spp. Journal of Bacteriology, 2006, 188, 8551-8559.	2.2	91
16	Functional genes as markers for sulfur cycling and CO <sub>2</sub> fixation in microbial communities of hydrothermal vents of the Logatchev field. FEMS Microbiology Ecology, 2010, 73, no-no.	2.7	80
17	Pathways of Carbon and Energy Metabolism of the Epibiotic Community Associated with the Deep-Sea Hydrothermal Vent Shrimp <i>Rimicaris exoculata</i> . PLoS ONE, 2011, 6, e16018.	2.5	80
18	Insights into the Autotrophic CO <sub>2</sub> Fixation Pathway of the Archaeon <i>Ignicoccus hospitalis</i> : Comprehensive Analysis of the Central Carbon Metabolism. Journal of Bacteriology, 2007, 189, 4108-4119.	2.2	79

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19	Labeling and Enzyme Studies of the Central Carbon Metabolism in <i>Metallosphaera sedula</i> . Journal of Bacteriology, 2011, 193, 1191-1200.	2.2	62
20	Sulfur Oxidation at Deep-Sea Hydrothermal Vents. , 2008, , 238-258.		62
21	Culture dependent and independent analyses of 16S rRNA and ATP citrate lyase genes: a comparison of microbial communities from different black smoker chimneys on the Mid-Atlantic Ridge. Extremophiles, 2008, 12, 627-640.	2.3	44
22	Water safety plan enhancements with improved drinking water quality detection techniques. Science of the Total Environment, 2020, 698, 134185.	8.0	43
23	Insight into the evolution of microbial metabolism from the deep-branching bacterium, <i>Thermovibrio ammonificans</i> . ELife, 2017, 6, .	6.0	40
24	Widespread Occurrence of Two Carbon Fixation Pathways in Tubeworm Endosymbionts: Lessons from Hydrothermal Vent Associated Tubeworms from the Mediterranean Sea. Frontiers in Microbiology, 2012, 3, 423.	3.5	38
25	Microbial CO <sub>2</sub> fixation potential in a tar-oil-contaminated porous aquifer. FEMS Microbiology Ecology, 2012, 81, 172-187.	2.7	31
26	Inactivation of F-specific bacteriophages during flocculation with polyaluminum chloride – A mechanistic study. Water Research, 2014, 51, 144-151.	11.3	29
27	From an extremophilic community to an electroautotrophic production strain: identifying a novel <i>Knallgas</i> bacterium as cathodic biofilm biocatalyst. ISME Journal, 2020, 14, 1125-1140.	9.8	28
28	Seasonal dynamics in the number and composition of coliform bacteria in drinking water reservoirs. Science of the Total Environment, 2021, 787, 147539.	8.0	20
29	Shallow Submarine Hydrothermal Systems in the Aeolian Volcanic Arc, Italy. Eos, 2009, 90, 110-111.	0.1	14
30	Assaying for the 3-oxo-hydroxypropionate Cycle of Carbon Fixation. Methods in Enzymology, 2005, 397, 212-221.	1.0	11
31	Complete genome sequence of <i>Thermovibrio ammonificans</i> HB-1T, a thermophilic, chemolithoautotrophic bacterium isolated from a deep-sea hydrothermal vent. Standards in Genomic Sciences, 2012, 7, 82-90.	1.5	11
32	Evaluation and application of molecular denitrification monitoring methods in the northern Lake Tai, China. Science of the Total Environment, 2019, 663, 686-695.	8.0	8
33	Genome Analysis of <i>Enterobacter asburiae</i> and <i>Lelliottia</i> spp. Proliferating in Oligotrophic Drinking Water Reservoirs and Lakes. Applied and Environmental Microbiology, 2022, 88, .	3.1	8
34	Development and validation of a FISH-based method for the detection and quantification of E. coli and coliform bacteria in water samples. Water Science and Technology, 2011, 64, 1435-1442.	2.5	4
35	Draft Genome Sequences of <i>Enterobacter</i> spp., <i>Lelliottia</i> spp., and <i>Serratia</i> spp., Coliform Bacteria from Drinking Water Reservoirs and Lakes. Microbiology Resource Announcements, 2021, 10, e0062221.	0.6	4
36	Life at Deep Sea Hydrothermal Vents – Oases Under Water. International Journal of Marine and Coastal Law, 2009, 24, 201-208.	0.7	3

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37	Draft Genome Sequences of <i>Buttiauxella</i> spp. Isolates from Water and Gastropods with Putative $\beta$ -Glucuronidase Activity. <i>Microbiology Resource Announcements</i> , 2022, 11, e0006422.	0.6	2
38	Detection and Quantification of <i>E. coli</i> and Coliform Bacteria in Water Samples with a New Method Based on Fluorescence In Situ Hybridisation. <i>Special Publication - Royal Society of Chemistry</i> , 2012, , 123-130.	0.0	0