

# Martin Koenneke

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

7,915  
citations

147801

31  
h-index

197818

49  
g-index

50  
all docs

50  
docs citations

50  
times ranked

6660  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation of an autotrophic ammonia-oxidizing marine archaeon. <i>Nature</i> , 2005, 437, 543-546.	27.8	2,489
2	<i>Nitrosopumilus maritimus</i> genome reveals unique mechanisms for nitrification and autotrophy in globally distributed marine crenarchaea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8818-8823.	7.1	853
3	<i>Nitrososphaera viennensis</i> , an ammonia oxidizing archaeon from soil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8420-8425.	7.1	810
4	Cultivation of a thermophilic ammonia oxidizing archaeon synthesizing crenarchaeol. <i>Environmental Microbiology</i> , 2008, 10, 810-818.	3.8	621
5	Ammonia-oxidizing archaea use the most energy-efficient aerobic pathway for CO <sub>2</sub> fixation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8239-8244.	7.1	396
6	Production of oceanic nitrous oxide by ammonia-oxidizing archaea. <i>Biogeosciences</i> , 2012, 9, 2419-2429.	3.3	195
7	Nonequilibrium clumped isotope signals in microbial methane. <i>Science</i> , 2015, 348, 428-431.	12.6	192
8	Intact Membrane Lipids of <i>Candidatus Nitrosopumilus maritimus</i> , a Cultivated Representative of the Cosmopolitan Mesophilic Group I Crenarchaeota. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2433-2440.	3.1	180
9	<i>Nitrosopumilus maritimus</i> gen. nov., sp. nov., <i>Nitrosopumilus cobalaminigenes</i> sp. nov., <i>Nitrosopumilus oxyclinae</i> sp. nov., and <i>Nitrosopumilus ureiphilus</i> sp. nov., four marine ammonia-oxidizing archaea of the phylum Thaumarchaeota. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 5067-5079.	1.7	159
10	Effects of growth phase on the membrane lipid composition of the thaumarchaeon <i>Nitrosopumilus maritimus</i> and their implications for archaeal lipid distributions in the marine environment. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 141, 579-597.	3.9	154
11	Influence of temperature, pH, and salinity on membrane lipid composition and TEX <sub>86</sub> of marine planktonic thaumarchaeal isolates. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 171, 238-255.	3.9	137
12	Reclassification of <i>Desulfobacterium phenolicum</i> as <i>Desulfobacula phenolica</i> comb. nov. and description of strain SaxT as <i>Desulfotignum balticum</i> gen. nov., sp. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2001, 51, 171-177.	1.7	123
13	Influence of ammonia oxidation rate on thaumarchaeal lipid composition and the TEX <sub>86</sub> temperature proxy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7762-7767.	7.1	121
14	Chemotaxonomic characterisation of the thaumarchaeal lipidome. <i>Environmental Microbiology</i> , 2017, 19, 2681-2700.	3.8	117
15	Community structure and activity of sulfate-reducing bacteria in an intertidal surface sediment: a multi-method approach. <i>Aquatic Microbial Ecology</i> , 2002, 29, 211-226.	1.8	111
16	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. <i>Nature Microbiology</i> , 2019, 4, 234-243.	13.3	103
17	Mimicking the oxygen minimum zones: stimulating interaction of aerobic archaeal and anaerobic bacterial ammonia oxidizers in a laboratory-scale model system. <i>Environmental Microbiology</i> , 2012, 14, 3146-3158.	3.8	100
18	Oxygen and nitrogen production by an ammonia-oxidizing archaeon. <i>Science</i> , 2022, 375, 97-100.	12.6	91

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19	Strangers in the archaeal world: osmostress-responsive biosynthesis of ectoine and hydroxyectoine by the marine thaumarchaeon <i>Nitrosopumilus maritimus</i> . <i>Environmental Microbiology</i> , 2016, 18, 1227-1248.	3.8	66
20	Identity and abundance of active sulfate-reducing bacteria in deep tidal flat sediments determined by directed cultivation and CARD-FISH analysis. <i>Environmental Microbiology</i> , 2008, 10, 2645-2658.	3.8	65
21	Microbial dormancy in the marine subsurface: Global endospore abundance and response to burial. <i>Science Advances</i> , 2019, 5, eaav1024.	10.3	64
22	Proteomic Response of Three Marine Ammonia-Oxidizing Archaea to Hydrogen Peroxide and Their Metabolic Interactions with a Heterotrophic Alphaproteobacterium. <i>MSystems</i> , 2019, 4, .	3.8	57
23	Respiratory quinones in Archaea: phylogenetic distribution and application as biomarkers in the marine environment. <i>Environmental Microbiology</i> , 2016, 18, 692-707.	3.8	55
24	Carbon isotope fractionation by the marine ammonia-oxidizing archaeon <i>Nitrosopumilus maritimus</i> . <i>Organic Geochemistry</i> , 2012, 48, 21-24.	1.8	50
25	Experimental investigation on the controls of clumped isotopologue and hydrogen isotope ratios in microbial methane. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 237, 339-356.	3.9	48
26	Stratification of archaeal membrane lipids in the ocean and implications for adaptation and chemotaxonomy of planktonic archaea. <i>Environmental Microbiology</i> , 2016, 18, 4324-4336.	3.8	47
27	Production rates of bacterial tetraether lipids and fatty acids in peatland under varying oxygen concentrations. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 203, 103-116.	3.9	43
28	Physiological response to temperature changes of the marine, sulfate-reducing bacterium <i>Desulfobacterium autotrophicum</i> . <i>FEMS Microbiology Ecology</i> , 2002, 42, 409-417.	2.7	39
29	Deep pore water profiles reflect enhanced microbial activity towards tidal flat margins. <i>Ocean Dynamics</i> , 2009, 59, 371-383.	2.2	39
30	Isolation of Sulfate-Reducing Bacteria from Sediments Above the Deep-Subseafloor Aquifer. <i>Frontiers in Microbiology</i> , 2012, 3, 65.	3.5	38
31	<i>Desulfoconvexum algidum</i> gen. nov., sp. nov., a psychrophilic sulfate-reducing bacterium isolated from a permanently cold marine sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 959-964.	1.7	36
32	Hydroxylamine released by nitrifying microorganisms is a precursor for HONO emission from drying soils. <i>Scientific Reports</i> , 2018, 8, 1877.	3.3	35
33	Effect of growth temperature on cellular fatty acids in sulphate-reducing bacteria. <i>Environmental Microbiology</i> , 2003, 5, 1064-1070.	3.8	33
34	From ether to acid: A plausible degradation pathway of glycerol dialkyl glycerol tetraethers. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 183, 138-152.	3.9	30
35	<i>Desulfopila inferna</i> sp. nov., a sulfate-reducing bacterium isolated from the subsurface of a tidal sand-flat. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2010, 60, 1626-1630.	1.7	29
36	Malonic Semialdehyde Reductase from the Archaeon <i>Nitrosopumilus maritimus</i> Is Involved in the Autotrophic 3-Hydroxypropionate/4-Hydroxybutyrate Cycle. <i>Applied and Environmental Microbiology</i> , 2015, 81, 1700-1707.	3.1	28

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37	Lipid biosynthesis of <i>Nitrosopumilus maritimus</i> dissected by lipid specific radioisotope probing (lipid-RIP) under contrasting ammonium supply. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 242, 51-63.	3.9	26
38	DNA Microarrays as Salivary Diagnostic Tools for Characterizing the Oral Cavity's Microbial Community. <i>Advances in Dental Research</i> , 2005, 18, 6-11.	3.6	24
39	Direct Cell Mass Measurements Expand the Role of Small Microorganisms in Nature. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	22
40	Identification of isoprenoid glycosidic glycerol dibiphytanol diethers and indications for their biosynthetic origin. <i>Organic Geochemistry</i> , 2014, 69, 70-75.	1.8	19
41	Carbon recycling efficiency and phosphate turnover by marine nitrifying archaea. <i>Science Advances</i> , 2020, 6, eaba1799.	10.3	19
42	Assessing the carbon assimilation and production of benthic archaeal lipid biomarkers using lipid-RIP. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 265, 431-442.	3.9	11
43	<i>Desulfofrigus</i> sp. prevails in sulfate-reducing dilution cultures from sediments of the Benguela upwelling area. <i>FEMS Microbiology Ecology</i> , 2013, 84, 86-97.	2.7	9
44	Substrate-dependent incorporation of carbon and hydrogen for lipid biosynthesis by <i>Methanosarcina barkeri</i> . <i>Environmental Microbiology Reports</i> , 2020, 12, 555-567.	2.4	9
45	NmPin from the marine thaumarchaeote <i>Nitrosopumilus maritimus</i> is an active membrane associated prolyl isomerase. <i>BMC Biology</i> , 2016, 14, 53.	3.8	8
46	Convergent Evolution of a Promiscuous 3-Hydroxypropionyl-CoA Dehydratase/Crotonyl-CoA Hydratase in <i>Crenarchaeota</i> and <i>Thaumarchaeota</i> . <i>MSphere</i> , 2021, 6, .	2.9	5
47	(S)-3-Hydroxybutyryl-CoA Dehydrogenase From the Autotrophic 3-Hydroxypropionate/4-Hydroxybutyrate Cycle in <i>Nitrosopumilus maritimus</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 712030.	3.5	4
48	Physiological response to temperature changes of the marine, sulfate-reducing bacterium <i>Desulfobacterium autotrophicum</i> . <i>FEMS Microbiology Ecology</i> , 2002, 42, 409-417.	2.7	1