

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	Oxygen and nitrogen production by an ammonia-oxidizing archaeon. <i>Science</i> , 2022, 375, 97-100.	12.6	91
2	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
3	(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
4	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
5	Carbon recycling efficiency and phosphate turnover by marine nitrifying archaea. <i>Science Advances</i> , 2020, 6, eaba1799.	10.3	19
6	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
7	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
8	Direct Cell Mass Measurements Expand the Role of Small Microorganisms in Nature. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	22
9	Microbial dormancy in the marine subsurface: Global endospore abundance and response to burial. <i>Science Advances</i> , 2019, 5, eaav1024.	10.3	64
10	Cyanate and urea are substrates for nitrification by Thaumarchaeota in the marine environment. <i>Nature Microbiology</i> , 2019, 4, 234-243.	13.3	103
11	Hydroxylamine released by nitrifying microorganisms is a precursor for HONO emission from drying soils. <i>Scientific Reports</i> , 2018, 8, 1877.	3.3	35
12	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
13	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
14	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
15	Chemotaxonomic characterisation of the thaumarchaeal lipidome. <i>Environmental Microbiology</i> , 2017, 19, 2681-2700.	3.8	117
16	<i>Nitrosopumilus maritimus</i> gen. nov., sp. nov., <i>Nitrosopumilus cobalaminigenes</i> sp. nov., <i>Nitrosopumilus oxycliniae</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
17	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
18	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

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19	Influence of ammonia oxidation rate on thaumarchaeal lipid composition and the TEX ₈₆ temperature proxy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7762-7767.	7.1	121
20	Stratification of archaeal membrane lipids in the ocean and implications for adaptation and chemotaxonomy of planktonic archaea. Environmental Microbiology, 2016, 18, 4324-4336.	3.8	47
21	From ether to acid: A plausible degradation pathway of glycerol dialkyl glycerol tetraethers. Geochimica Et Cosmochimica Acta, 2016, 183, 138-152.	3.9	30
22	Respiratory quinones in Archaea: phylogenetic distribution and application as biomarkers in the marine environment. Environmental Microbiology, 2016, 18, 692-707.	3.8	55
23	Malonic Semialdehyde Reductase from the Archaeon Nitrosopumilus maritimus Is Involved in the Autotrophic 3-Hydroxypropionate/4-Hydroxybutyrate Cycle. Applied and Environmental Microbiology, 2015, 81, 1700-1707.	3.1	28
24	Nonequilibrium clumped isotope signals in microbial methane. Science, 2015, 348, 428-431.	12.6	192
25	Influence of temperature, pH, and salinity on membrane lipid composition and TEX ₈₆ of marine planktonic thaumarchaeal isolates. Geochimica Et Cosmochimica Acta, 2015, 171, 238-255.	3.9	137
26	Identification of isoprenoid glycosidic glycerol dibiphytanol diethers and indications for their biosynthetic origin. Organic Geochemistry, 2014, 69, 70-75.	1.8	19
27	Ammonia-oxidizing archaea use the most energy-efficient aerobic pathway for CO ₂ fixation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8239-8244.	7.1	396
28	Effects of growth phase on the membrane lipid composition of the thaumarchaeon Nitrosopumilus maritimus and their implications for archaeal lipid distributions in the marine environment. Geochimica Et Cosmochimica Acta, 2014, 141, 579-597.	3.9	154
29	Desulfoconvexum algidum gen. nov., sp. nov., a psychrophilic sulfate-reducing bacterium isolated from a permanently cold marine sediment. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 959-964.	1.7	36
30	Desulfofrigus sp. prevails in sulfate-reducing dilution cultures from sediments of the Benguela upwelling area. FEMS Microbiology Ecology, 2013, 84, 86-97.	2.7	9
31	Production of oceanic nitrous oxide by ammonia-oxidizing archaea. Biogeosciences, 2012, 9, 2419-2429.	3.3	195
32	Mimicking the oxygen minimum zones: stimulating interaction of aerobic archaeal and anaerobic bacterial ammonia oxidizers in a laboratory-scale model system. Environmental Microbiology, 2012, 14, 3146-3158.	3.8	100
33	Carbon isotope fractionation by the marine ammonia-oxidizing archaeon Nitrosopumilus maritimus. Organic Geochemistry, 2012, 48, 21-24.	1.8	50
34	Isolation of Sulfate-Reducing Bacteria from Sediments Above the Deep-Subseafloor Aquifer. Frontiers in Microbiology, 2012, 3, 65.	3.5	38
35	Nitrososphaera viennensis, an ammonia oxidizing archaeon from soil. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8420-8425.	7.1	810
36	Nitrosopumilus maritimus 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

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37	<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
38	Deep pore water profiles reflect enhanced microbial activity towards tidal flat margins. <i>Ocean Dynamics</i> , 2009, 59, 371-383.	2.2	39
39	Intact Membrane Lipids of <i>Candidatus</i> Nitrosopumilus maritimus, a Cultivated Representative of the Cosmopolitan Mesophilic Group I Crenarchaeota. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2433-2440.	3.1	180
40	Cultivation of a thermophilic ammonia oxidizing archaeon synthesizing crenarchaeol. <i>Environmental Microbiology</i> , 2008, 10, 810-818.	3.8	621
41	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
42	Isolation of an autotrophic ammonia-oxidizing marine archaeon. <i>Nature</i> , 2005, 437, 543-546.	27.8	2,489
43	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
44	Effect of growth temperature on cellular fatty acids in sulphate-reducing bacteria. <i>Environmental Microbiology</i> , 2003, 5, 1064-1070.	3.8	33
45	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
46	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
47	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
48	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