

# Eva Spieck

## List of Publications by Year in descending order

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42  
papers

4,822  
citations

186265

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276875

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43  
docs citations

43  
times ranked

4058  
citing authors

#	ARTICLE	IF	CITATIONS
1	A <i>Nitrospira</i> metagenome illuminates the physiology and evolution of globally important nitrite-oxidizing bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13479-13484.	7.1	732
2	A moderately thermophilic ammonia-oxidizing crenarchaeote from a hot spring. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2134-2139.	7.1	626
3	Expanded metabolic versatility of ubiquitous nitrite-oxidizing bacteria from the genus <i>Nitrospira</i> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11371-11376.	7.1	439
4	Comparison of Oxidation Kinetics of Nitrite-Oxidizing Bacteria: Nitrite Availability as a Key Factor in Niche Differentiation. Applied and Environmental Microbiology, 2015, 81, 745-753.	3.1	286
5	<i>NxrB</i> encoding the beta subunit of nitrite oxidoreductase as functional and phylogenetic marker for nitrite-oxidizing <i>Nitrospira</i> . Environmental Microbiology, 2014, 16, 3055-3071.	3.8	280
6	The Genome of <i>Nitrospina gracilis</i> Illuminates the Metabolism and Evolution of the Major Marine Nitrite Oxidizer. Frontiers in Microbiology, 2013, 4, 27.	3.5	243
7	Cultivation of a novel cold-adapted nitrite oxidizing betaproteobacterium from the Siberian Arctic. ISME Journal, 2007, 1, 256-264.	9.8	190
8	Growth of nitrite-oxidizing bacteria by aerobic hydrogen oxidation. Science, 2014, 345, 1052-1054.	12.6	166
9	Selective enrichment and molecular characterization of a previously uncultured <i>Nitrospira</i> -like bacterium from activated sludge. Environmental Microbiology, 2006, 8, 405-415.	3.8	143
10	<i>Nitrotoga</i> -like bacteria are previously unrecognized key nitrite oxidizers in full-scale wastewater treatment plants. ISME Journal, 2015, 9, 708-720.	9.8	135
11	Chemotaxonomic characterisation of the thaumarchaeal lipidome. Environmental Microbiology, 2017, 19, 2681-2700.	3.8	117
12	Isolation and characterization of a moderately thermophilic nitrite-oxidizing bacterium from a geothermal spring. FEMS Microbiology Ecology, 2011, 75, 195-204.	2.7	112
13	Moderately thermophilic nitrifying bacteria from a hot spring of the Baikal rift zone. FEMS Microbiology Ecology, 2005, 54, 297-306.	2.7	110
14	Extremophilic nitrite-oxidizing <i>Chloroflexi</i> from Yellowstone hot springs. ISME Journal, 2020, 14, 364-379.	9.8	93
15	Cultivation, Growth Physiology, and Chemotaxonomy of Nitrite-Oxidizing Bacteria. Methods in Enzymology, 2011, 486, 109-130.	1.0	90
16	Identification of Nitrite-Oxidizing Bacteria with Monoclonal Antibodies Recognizing the Nitrite Oxidoreductase. Applied and Environmental Microbiology, 1999, 65, 4126-4133.	3.1	88
17	Enrichment and Physiological Characterization of a Novel <i>Nitrospira</i> -Like Bacterium Obtained from a Marine Sponge. Applied and Environmental Microbiology, 2010, 76, 4640-4646.	3.1	79
18	Adaptability as the key to success for the ubiquitous marine nitrite oxidizer <i>Nitrococcus</i> . Science Advances, 2017, 3, e1700807.	10.3	74

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19	Fatty Acid Profiles of Nitrite-oxidizing Bacteria Reflect their Phylogenetic Heterogeneity. <i>Systematic and Applied Microbiology</i> , 2001, 24, 377-384.	2.8	70
20	Acyl-Homoserine Lactone Production in Nitrifying Bacteria of the Genera <i>Nitrosospira</i> , <i>Nitrobacter</i> , and <i>Nitrospira</i> Identified via a Survey of Putative Quorum-Sensing Genes. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	70
21	The phylogeny of the genus <i>Nitrobacter</i> based on comparative rep-PCR, 16S rRNA and nitrite oxidoreductase gene sequence analysis. <i>Systematic and Applied Microbiology</i> , 2007, 30, 297-308.	2.8	68
22	Relevance of <i>Nitrospira</i> for nitrite oxidation in a marine recirculation aquaculture system and physiological features of a <i>Nitrospira marina</i> -like isolate. <i>Environmental Microbiology</i> , 2011, 13, 2536-2547.	3.8	68
23	Improved isolation strategies allowed the phenotypic differentiation of two <i>Nitrospira</i> strains from widespread phylogenetic lineages. <i>FEMS Microbiology Ecology</i> , 2015, 91, .	2.7	61
24	Characterization of a new marine nitrite oxidizing bacterium, <i>Nitrospina watsonii</i> sp. nov., a member of the newly proposed phylum "Nitrospinae". <i>Systematic and Applied Microbiology</i> , 2014, 37, 170-176.	2.8	57
25	Relative Abundance of <i>Nitrotoga</i> spp. in a Biofilter of a Cold-Freshwater Aquaculture Plant Appears To Be Stimulated by Slightly Acidic pH. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1838-1845.	3.1	47
26	Low Temperature and Neutral pH Define "Candidatus <i>Nitrotoga</i> sp." as a Competitive Nitrite Oxidizer in Coculture with <i>Nitrospira defluvii</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	37
27	A robust nitrifying community in a bioreactor at 50 °C opens up the path for thermophilic nitrogen removal. <i>ISME Journal</i> , 2016, 10, 2293-2303.	9.8	36
28	Immunocytochemical detection and location of the membrane-bound nitrite oxidoreductase in cells of <i>Nitrobacter</i> and <i>Nitrospira</i> . <i>FEMS Microbiology Letters</i> , 1996, 139, 71-76.	1.8	35
29	Defining Culture Conditions for the Hidden Nitrite-Oxidizing Bacterium <i>Nitrolancea</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 1522.	3.5	30
30	The draft genome sequence of "Nitrospira lenta" strain BS10, a nitrite oxidizing bacterium isolated from activated sludge. <i>Standards in Genomic Sciences</i> , 2018, 13, 32.	1.5	28
31	The nitrite-oxidizing community in activated sludge from a municipal wastewater treatment plant determined by fatty acid methyl ester-stable isotope probing. <i>Systematic and Applied Microbiology</i> , 2013, 36, 517-524.	2.8	23
32	Relevance and Diversity of <i>Nitrospira</i> Populations in Biofilters of Brackish RAS. <i>PLoS ONE</i> , 2013, 8, e64737.	2.5	23
33	Taxonomic and functional profiling of nitrifying biofilms in freshwater, brackish and marine RAS biofilters. <i>Aquacultural Engineering</i> , 2020, 90, 102094.	3.1	23
34	Relevance of <i>Candidatus Nitrotoga</i> for nitrite oxidation in technical nitrogen removal systems. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 7123-7139.	3.6	19
35	A generally applicable cryopreservation method for nitrite-oxidizing bacteria. <i>Systematic and Applied Microbiology</i> , 2013, 36, 579-584.	2.8	15
36	Cold Adapted <i>Nitrosospira</i> sp.: A Potential Crucial Contributor of Ammonia Oxidation in Cryosols of Permafrost-Affected Landscapes in Northeast Siberia. <i>Microorganisms</i> , 2019, 7, 699.	3.6	14

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37	Vitamin B <sub>12</sub> -dependent biosynthesis ties amplified 2-methylhopanoid production during oceanic anoxic events to nitrification. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32996-33004.	7.1	13
38	Reactivation of Microbial Strains and Synthetic Communities After a Spaceflight to the International Space Station: Corroborating the Feasibility of Essential Conversions in the MELiSSA Loop. Astrobiology, 2019, 19, 1167-1176.	3.0	9
39	Some like it cold: the cellular organization and physiological limits of cold-tolerant nitrite-oxidizing <i>Nitrotoga</i> . Environmental Microbiology, 2022, 24, 2059-2077.	3.8	9
40	Marine and terrestrial nitrifying bacteria are sources of diverse bacteriohopanepolyols. Geobiology, 2022, 20, 399-420.	2.4	8
41	Draft Genome Sequence of <i>Nitrobacter vulgaris</i> Strain Ab 1, a Nitrite-Oxidizing Bacterium. Genome Announcements, 2017, 5, .	0.8	7
42	Microbial Life in Terrestrial Permafrost: Methanogenesis and Nitrification in Gelisols as Potentials for Exobiological Process. , 2002, , 143-159.		7