Laura van Niftrik

List of Publications by Year
in descending order

54	5,645	172457	175258
papers	citations	29 h-index	52 g-index

54	54	54	4360
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deciphering the evolution and metabolism of an anammox bacterium from a community genome. Nature, 2006, 440, 790-794.	27.8	1,075
2	Biochemistry and molecular biology of anammox bacteria. Critical Reviews in Biochemistry and Molecular Biology, 2009, 44, 65-84.	5.2	441
3	Candidatus Ã¢Â€Â˜Brocadia fulgidaÃ¢Â€Â™: an autofluorescent anaerobic ammonium oxidizing bacterium. FEMS Microbiology Ecology, 2008, 63, 46-55.	2.7	388
4	Biomarkers for In Situ Detection of Anaerobic Ammonium-Oxidizing (Anammox) Bacteria. Applied and Environmental Microbiology, 2005, 71, 1677-1684.	3.1	325
5	Characterization of Romboutsia ilealis gen. nov., sp. nov., isolated from the gastro-intestinal tract of a rat, and proposal for the reclassification of five closely related members of the genus Clostridium into the genera Romboutsia gen. nov., Intestinibacter gen. nov., Terrisporobacter gen. nov. and Asaccharospora gen. nov.. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 1600-1616.	1.7	259
6	Enrichment and characterization of marine anammox bacteria associated with global nitrogen gas production. Environmental Microbiology, 2008, 10, 3120-3129.	3.8	231
7	Anaerobic Ammonium-Oxidizing Bacteria: Unique Microorganisms with Exceptional Properties. Microbiology and Molecular Biology Reviews, 2012, 76, 585-596.	6.6	220
8	Anammox Planctomycetes have a peptidoglycan cell wall. Nature Communications, 2015, 6, 6878.	12.8	194
9	Combined structural and chemical analysis of the anammoxosome: A membrane-bounded intracytoplasmic compartment in anammox bacteria. Journal of Structural Biology, 2008, 161, 401-410.	2.8	176
10	Anammoxâ€"Growth Physiology, Cell Biology, and Metabolism. Advances in Microbial Physiology, 2012, 60, 211-262.	2.4	175
11	Determining the bacterial cell biology of Planctomycetes. Nature Communications, 2017, 8, 14853.	12.8	175
12	Extracellular electron transfer-dependent anaerobic oxidation of ammonium by anammox bacteria. Nature Communications, 2020, 11, 2058.	12.8	168
13	Linking Ultrastructure and Function in Four Genera of Anaerobic Ammonium-Oxidizing Bacteria: Cell Plan, Glycogen Storage, and Localization of Cytochrome c Proteins. Journal of Bacteriology, 2008, 190, 708-717.	2.2	163
14	Expanding the Verrucomicrobial Methanotrophic World: Description of Three Novel Species of Methylacidimicrobium gen. nov. Applied and Environmental Microbiology, 2014, 80, 6782-6791.	3.1	161
15	A new intra-aerobic metabolism in the nitrite-dependent anaerobic methane-oxidizing bacterium Candidatus â€˜Methylomirabilis oxyferaâ€™. Biochemical Society Transactions, 2011, 39, 243-248.	3.4	153
16	Mimicking the oxygen minimum zones: stimulating interaction of aerobic archaeal and anaerobic bacterial ammonia oxidizers in a laboratoryâ€scale model system. Environmental Microbiology, 2012, 14, 3146-3158.	3.8	100
17	Detection, Isolation, and Characterization of Acidophilic Methanotrophs from Sphagnum Mosses. Applied and Environmental Microbiology, 2011, 77, 5643-5654.	3.1	93
18	Ladderane lipid distribution in four genera of anammox bacteria. Archives of Microbiology, 2008, 190, 51-66.	2.2	92

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19	XoxF-Type Methanol Dehydrogenase from the Anaerobic Methanotroph â€œCandidatus Methylomirabilis oxyferaâ€• Applied and Environmental Microbiology, 2015, 81, 1442-1451.	3.1	75
20	Isolation and characterization of a prokaryotic cell organelle from the anammox bacterium <scp>K</scp>uenenia stuttgartiensis. Molecular Microbiology, 2014, 94, 794-802.	2.5	72
21	Intracellular localization of membraneâ€bound ATPases in the compartmentalized anammox bacterium â€˜Candidatus Kuenenia stuttgartiensisâ€™. Molecular Microbiology, 2010, 77, 701-715.	2.5	71
22	Cytochromes c in Archaea: distribution, maturation, cell architecture, and the special case of Ignicoccus hospitalis. Frontiers in Microbiology, 2015, 6, 439.	3.5	70
23	Trending topics and open questions in anaerobic ammonium oxidation. Current Opinion in Chemical Biology, 2019, 49, 45-52.	6.1	69
24	Genomic and Physiological Analysis of Carbon Storage in the Verrucomicrobial Methanotroph â€œCa. Methylacidiphilum Fumariolicumâ€•SolV. Frontiers in Microbiology, 2012, 3, 345.	3.5	61
25	Ultrastructure of the Denitrifying Methanotroph â€œCandidatus Methylomirabilis oxyfera,â€•a Novel Polygon-Shaped Bacterium. Journal of Bacteriology, 2012, 194, 284-291.	2.2	56
26	Cell division ring, a new cell division protein and vertical inheritance of a bacterial organelle in anammox planctomycetes. Molecular Microbiology, 2009, 73, 1009-1019.	2.5	53
27	Immunogold Localization of Key Metabolic Enzymes in the Anammoxosome and on the Tubule-Like Structures of Kuenenia stuttgartiensis. Journal of Bacteriology, 2015, 197, 2432-2441.	2.2	52
28	A New Addition to the Cell Plan of Anammox Bacteria: "Candidatus Kuenenia stuttgartiensis" Has a Protein Surface Layer as the Outermost Layer of the Cell. Journal of Bacteriology, 2014, 196, 80-89.	2.2	50
29	Branchial nitrogen cycle symbionts can remove ammonia in fish gills. Environmental Microbiology Reports, 2016, 8, 590-594.	2.4	34
30	A novel marine nitrite-oxidizing Nitrospira species from Dutch coastal North Sea water. Frontiers in Microbiology, 2013, 4, 60.	3.5	30
31	The Anammoxosome Organelle Is Crucial for the Energy Metabolism of Anaerobic Ammonium Oxidizing Bacteria. Journal of Molecular Microbiology and Biotechnology, 2013, 23, 104-117.	1.0	29
32	Editorial: Planctomycetes-Verrucomicrobia-Chlamydiae Bacterial Superphylum: New Model Organisms for Evolutionary Cell Biology. Frontiers in Microbiology, 2017, 8, 1458.	3.5	28
33	Community Composition and Ultrastructure of a Nitrate-Dependent Anaerobic Methane-Oxidizing Enrichment Culture. Applied and Environmental Microbiology, 2018, 84, .	3.1	28
34	Co-localization of particulate methane monooxygenase and cd1 nitrite reductase in the denitrifying methanotroph â€˜Candidatus Methylomirabilis oxyferaâ€™. FEMS Microbiology Letters, 2012, 334, 49-56.	1.8	27
35	Non-essentiality of canonical cell division genes in the planctomycete Planctopirus limnophila. Scientific Reports, 2020, 10, 66.	3.3	26
36	Characterization of a novel cytochrome c as the electron acceptor of XoxF-MDH in the thermoacidophilic methanotroph Methylacidiphilum fumariolicum SolV. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 595-603.	2.3	25

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37	Multiheme hydroxylamine oxidoreductases produce NO during ammonia oxidation in methanotrophs. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24459-24463.	7.1	25
38	Structural and functional characterization of the intracellular filament-forming nitrite oxidoreductase multiprotein complex. Nature Microbiology, 2021, 6, 1129-1139.	13.3	25
39	Carbon isotope-labelling experiments indicate that ladderane lipids of anammox bacteria are synthesized by a previously undescribed, novel pathway. FEMS Microbiology Letters, 2009, 292, 115-122.	1.8	19
40	The S-Layer Protein of the Anammox Bacterium Kuenenia stuttgartiensis Is Heavily O-Glycosylated. Frontiers in Microbiology, 2016, 7, 1721.	3.5	19
41	Complexome analysis of the nitrite-dependent methanotroph Methylomirabilis lanthanidiphila. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 734-744.	1.0	18
42	Nutrient Limitation Causes Differential Expression of Transport- and Metabolism Genes in the Compartmentalized Anammox Bacterium Kuenenia stuttgartiensis. Frontiers in Microbiology, 2020, 11, 1959.	3.5	14
43	Cell biology of unique anammox bacteria that contain an energy conserving prokaryotic organelle. Antonie Van Leeuwenhoek, 2013, 104, 489-497.	1.7	13
44	Ultrastructure and Viral Metagenome of Bacteriophages from an Anaerobic Methane Oxidizing Methylomirabilis Bioreactor Enrichment Culture. Frontiers in Microbiology, 2016, 7, 1740.	3.5	13
45	The ultrastructure of the compartmentalized anaerobic ammonium-oxidizing bacteria is linked to their energy metabolism. Biochemical Society Transactions, 2011, 39, 1805-1810.	3.4	12
46	Planctomycetes. , 2019, , 614-614.		10
47	Characterization of the first planctomycetal outer membrane protein identifies a channel in the outer membrane of the anammox bacterium Kuenenia stuttgartiensis. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 767-776.	2.6	9
48	Cell Biology of Anaerobic Ammonium-Oxidizing Bacteria: Unique Prokaryotes with an Energy-Conserving Intracellular Compartment. , 2013, , 89-123.		7
49	Antimicrobial Late Cornified Envelope Proteins: The Psoriasis Risk Factor Deletion of LCE3B/C Genes Affects Microbiota Composition. Journal of Investigative Dermatology, 2022, 142, 1947-1955.e6.	0.7	5
50	Growth on Carbohydrates from Carbonaceous Meteorites Alters the Immunogenicity of Environment-Derived Bacterial Pathogens. Astrobiology, 2020, 20, 1353-1362.	3.0	3
51	Bioreactor virome metagenomics sequencing using DNA spike-ins. PeerJ, 2018, 6, e4351.	2.0	3
52	Endocarditis Caused by Nontypeable Streptococcus pneumoniae. Clinical Infectious Diseases, 2022, 75, 719-722.	5.8	2
53	The Polygonal Cell Shape and Surface Protein Layer of Anaerobic Methane-Oxidizing Methylomirabilislanthanidiphila Bacteria. Frontiers in Microbiology, 2021, 12, 766527.	3.5	2
54	The Anammoxosome Organelle: The Power Plant of Anaerobic Ammonium-Oxidizing (Anammox) Bacteria. Microbiology Monographs, 2020, , 107-123.	0.6	1