

# Boran Kartal

## List of Publications by Year in descending order

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81  
papers

14,834  
citations

41627

51  
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73587

79  
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83  
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83  
docs citations

83  
times ranked

9545  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen input promotes denitrifying methanotrophs'™ abundance and contribution to methane emission reduction in coastal wetland and paddy soil. <i>Environmental Pollution</i> , 2022, 302, 119090.	3.7	20
2	Learning from microorganisms: using new insights in microbial physiology for sustainable nitrogen management. <i>Current Opinion in Biotechnology</i> , 2021, 67, 42-48.	3.3	9
3	Simultaneous Anaerobic and Aerobic Ammonia and Methane Oxidation under Oxygen Limitation Conditions. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0004321.	1.4	3
4	Structural and functional characterization of the intracellular filament-forming nitrite oxidoreductase multiprotein complex. <i>Nature Microbiology</i> , 2021, 6, 1129-1139.	5.9	25
5	Characterization of a nitrite-reducing octaheme hydroxylamine oxidoreductase that lacks the tyrosine cross-link. <i>Journal of Biological Chemistry</i> , 2021, 296, 100476.	1.6	16
6	Multiheme hydroxylamine oxidoreductases produce NO during ammonia oxidation in methanotrophs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24459-24463.	3.3	25
7	Diversity, enrichment, and genomic potential of anaerobic methane- and ammonium-oxidizing microorganisms from a brewery wastewater treatment plant. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 7201-7212.	1.7	9
8	Complexome analysis of the nitrite-dependent methanotroph <i>Methylomirabilis lanthanidiphila</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 734-744.	0.5	18
9	A nitric oxide-binding heterodimeric cytochrome c complex from the anammox bacterium <i>Kuenenia stuttgartiensis</i> binds to hydrazine synthase. <i>Journal of Biological Chemistry</i> , 2019, 294, 16712-16728.	1.6	16
10	Discovery of a functional, contracted heme-binding motif within a multiheme cytochrome. <i>Journal of Biological Chemistry</i> , 2019, 294, 16953-16965.	1.6	24
11	Interactions of anaerobic ammonium oxidizers and sulfide-oxidizing bacteria in a substrate-limited model system mimicking the marine environment. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	1.3	11
12	Interactions between anaerobic ammonium- and methane-oxidizing microorganisms in a laboratory-scale sequencing batch reactor. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 6783-6795.	1.7	26
13	A 192-heme electron transfer network in the hydrazine dehydrogenase complex. <i>Science Advances</i> , 2019, 5, eaav4310.	4.7	47
14	Nitric oxide-dependent anaerobic ammonium oxidation. <i>Nature Communications</i> , 2019, 10, 1244.	5.8	103
15	Key Physiology of a Nitrite-Dependent Methane-Oxidizing Enrichment Culture. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	39
16	A 60-heme reductase complex from an anammox bacterium shows an extended electron transfer pathway. <i>Acta Crystallographica Section D: Structural Biology</i> , 2019, 75, 333-341.	1.1	7
17	Current perspectives on the application of N-damo and anammox in wastewater treatment. <i>Current Opinion in Biotechnology</i> , 2018, 50, 222-227.	3.3	88
18	The microbial nitrogen-cycling network. <i>Nature Reviews Microbiology</i> , 2018, 16, 263-276.	13.6	2,269

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19	Community Composition and Ultrastructure of a Nitrate-Dependent Anaerobic Methane-Oxidizing Enrichment Culture. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	28
20	Comparative Genomics of Candidatus <i>Methyloirabilis</i> Species and Description of <i>Ca. Methyloirabilis Lanthanidiphila</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 1672.	1.5	67
21	Iron assimilation and utilization in anaerobic ammonium oxidizing bacteria. <i>Current Opinion in Chemical Biology</i> , 2017, 37, 129-136.	2.8	113
22	Metagenomic analysis of anammox communities in three different microbial aggregates. <i>Environmental Microbiology</i> , 2016, 18, 2979-2993.	1.8	133
23	Anammox Biochemistry: a Tale of Heme c Proteins. <i>Trends in Biochemical Sciences</i> , 2016, 41, 998-1011.	3.7	203
24	Membrane-bound electron transport systems of an anammox bacterium: A complexome analysis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 1694-1704.	0.5	89
25	Archaea catalyze iron-dependent anaerobic oxidation of methane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12792-12796.	3.3	470
26	Characterization of Anammox Hydrazine Dehydrogenase, a Key N <sub>2</sub> -producing Enzyme in the Global Nitrogen Cycle. <i>Journal of Biological Chemistry</i> , 2016, 291, 17077-17092.	1.6	103
27	Anammox Planctomycetes have a peptidoglycan cell wall. <i>Nature Communications</i> , 2015, 6, 6878.	5.8	194
28	Draft Genome Sequence of Anammox Bacterium <i>Candidatus Scalindua brodae</i> , Obtained Using Differential Coverage Binning of Sequencing Data from Two Reactor Enrichments. <i>Genome Announcements</i> , 2015, 3, .	0.8	46
29	Immunogold Localization of Key Metabolic Enzymes in the Anammoxosome and on the Tubule-Like Structures of <i>Kuenenia stuttgartiensis</i> . <i>Journal of Bacteriology</i> , 2015, 197, 2432-2441.	1.0	52
30	The inner workings of the hydrazine synthase multiprotein complex. <i>Nature</i> , 2015, 527, 394-397.	13.7	131
31	Complete nitrification by a single microorganism. <i>Nature</i> , 2015, 528, 555-559.	13.7	1,336
32	Iron-Mediated Anaerobic Oxidation of Methane in Brackish Coastal Sediments. <i>Environmental Science &amp; Technology</i> , 2015, 49, 277-283.	4.6	230
33	Isolation and characterization of a prokaryotic cell organelle from the anammox bacterium <i>Kuenenia stuttgartiensis</i> . <i>Molecular Microbiology</i> , 2014, 94, 794-802.	1.2	72
34	Structural Basis of Biological NO Generation by Octaheme Oxidoreductases. <i>Journal of Biological Chemistry</i> , 2014, 289, 1228-1242.	1.6	87
35	Interactions between anaerobic ammonium and sulfur-oxidizing bacteria in a laboratory scale model system. <i>Environmental Microbiology</i> , 2014, 16, 3487-3498.	1.8	81
36	High specific activity for anammox bacteria enriched from activated sludge at 10 °C. <i>Bioresource Technology</i> , 2014, 163, 214-221.	4.8	117

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37	Simultaneous partial nitrification and anammox at low temperature with granular sludge. <i>Water Research</i> , 2014, 66, 111-121.	5.3	244
38	Application of the Anammox Process. , 2014, , 237-263.		3
39	The metagenome of the marine anammox bacterium <i>Candidatus Scalindua profunda</i> ™ illustrates the versatility of this globally important nitrogen cycle bacterium. <i>Environmental Microbiology</i> , 2013, 15, 1275-1289.	1.8	246
40	Nitrogen removal with the anaerobic ammonium oxidation process. <i>Biotechnology Letters</i> , 2013, 35, 1145-1154.	1.1	70
41	Lysozyme and Penicillin Inhibit the Growth of Anaerobic Ammonium-Oxidizing Planctomycetes. <i>Applied and Environmental Microbiology</i> , 2013, 79, 7763-7769.	1.4	39
42	Nitrogen isotope effects induced by anammox bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18994-18999.	3.3	174
43	How to make a living from anaerobic ammonium oxidation. <i>FEMS Microbiology Reviews</i> , 2013, 37, 428-461.	3.9	433
44	Enrichment of an anammox bacterial community from a flooded paddy soil. <i>Environmental Microbiology Reports</i> , 2013, 5, 483-489.	1.0	41
45	Presence and diversity of anammox bacteria in cold hydrocarbon-rich seeps and hydrothermal vent sediments of the Guaymas Basin. <i>Frontiers in Microbiology</i> , 2013, 4, 219.	1.5	41
46	Nitrogen Removal by a Nitrification-Anammox Bioreactor at Low Temperature. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2807-2812.	1.4	258
47	Rapid and Simple Cryopreservation of Anaerobic Ammonium-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 2012, 78, 3010-3013.	1.4	42
48	Effects of Nitrogen Dioxide and Anoxia on Global Gene and Protein Expression in Long-Term Continuous Cultures of <i>Nitrosomonas eutropha</i> C91. <i>Applied and Environmental Microbiology</i> , 2012, 78, 4788-4794.	1.4	15
49	Hydrazine Synthase, a Unique Phylomarker with Which To Study the Presence and Biodiversity of Anammox Bacteria. <i>Applied and Environmental Microbiology</i> , 2012, 78, 752-758.	1.4	228
50	The metagenomic basis of anammox metabolism in <i>Candidatus Brocadia fulgida</i> ™. <i>Biochemical Society Transactions</i> , 2012, 40, 295-295.	1.6	2
51	Anammox™ Growth Physiology, Cell Biology, and Metabolism. <i>Advances in Microbial Physiology</i> , 2012, 60, 211-262.	1.0	175
52	Genome analysis and heterologous expression of acetate-activating enzymes in the anammox bacterium <i>Kuenenia stuttgartiensis</i> . <i>Archives of Microbiology</i> , 2012, 194, 943-948.	1.0	23
53	Molecular mechanism of anaerobic ammonium oxidation. <i>Nature</i> , 2011, 479, 127-130.	13.7	707
54	The metagenomic basis of anammox metabolism in <i>Candidatus Brocadia fulgida</i> ™. <i>Biochemical Society Transactions</i> , 2011, 39, 1799-1804.	1.6	110

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55	Combined anaerobic ammonium and methane oxidation for nitrogen and methane removal. <i>Biochemical Society Transactions</i> , 2011, 39, 1822-1825.	1.6	54
56	Proteins and protein complexes involved in the biochemical reactions of anaerobic ammonium-oxidizing bacteria. <i>Biochemical Society Transactions</i> , 2011, 39, 303-308.	1.6	49
57	Cultivation, Detection, and Ecophysiology of Anaerobic Ammonium-Oxidizing Bacteria. <i>Methods in Enzymology</i> , 2011, 486, 89-108.	0.4	72
58	Liquid Chromatography–Mass Spectrometry-Based Proteomics of <i>Nitrosomonas</i> . <i>Methods in Enzymology</i> , 2011, 486, 465-482.	0.4	23
59	New Anaerobic, Ammonium-Oxidizing Community Enriched from Peat Soil. <i>Applied and Environmental Microbiology</i> , 2011, 77, 966-971.	1.4	100
60	Simultaneous Nitrite-Dependent Anaerobic Methane and Ammonium Oxidation Processes. <i>Applied and Environmental Microbiology</i> , 2011, 77, 6802-6807.	1.4	147
61	Denitrification at pH 4 by a soil-derived <i>Rhodanobacter</i> -dominated community. <i>Environmental Microbiology</i> , 2010, 12, 3264-3271.	1.8	95
62	Effect of Nitric Oxide on Anammox Bacteria. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6304-6306.	1.4	83
63	Identification and quantification of anammox bacteria in eight nitrogen removal reactors. <i>Water Research</i> , 2010, 44, 5014-5020.	5.3	161
64	Microbial and Physicochemical Characteristics of Compact Anaerobic Ammonium-Oxidizing Granules in an Upflow Anaerobic Sludge Blanket Reactor. <i>Applied and Environmental Microbiology</i> , 2010, 76, 2652-2656.	1.4	131
65	Presence and activity of anaerobic ammonium-oxidizing bacteria at deep-sea hydrothermal vents. <i>ISME Journal</i> , 2009, 3, 117-123.	4.4	145
66	Biochemistry and molecular biology of anammox bacteria. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2009, 44, 65-84.	2.3	441
67	Ladderane lipid distribution in four genera of anammox bacteria. <i>Archives of Microbiology</i> , 2008, 190, 51-66.	1.0	92
68	<i>Candidatus Brocadia fulgida</i> <sup>TM</sup> : an autofluorescent anaerobic ammonium oxidizing bacterium. <i>FEMS Microbiology Ecology</i> , 2008, 63, 46-55.	1.3	388
69	A microdiversity study of anammox bacteria reveals a novel <i>Candidatus Scalindua</i> phylotype in marine oxygen minimum zones. <i>Environmental Microbiology</i> , 2008, 10, 3106-3119.	1.8	250
70	Enrichment and characterization of marine anammox bacteria associated with global nitrogen gas production. <i>Environmental Microbiology</i> , 2008, 10, 3120-3129.	1.8	231
71	Response of Anaerobic Ammonium-Oxidizing Bacteria to Hydroxylamine. <i>Applied and Environmental Microbiology</i> , 2008, 74, 4417-4426.	1.4	78
72	Anammox bacteria disguised as denitrifiers: nitrate reduction to dinitrogen gas via nitrite and ammonium. <i>Environmental Microbiology</i> , 2007, 9, 635-642.	1.8	462

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73	Candidatus <i>Anammoxoglobus propionicus</i> a new propionate oxidizing species of anaerobic ammonium oxidizing bacteria. <i>Systematic and Applied Microbiology</i> , 2007, 30, 39-49.	1.2	511
74	Adaptation of a freshwater anammox population to high salinity wastewater. <i>Journal of Biotechnology</i> , 2006, 126, 546-553.	1.9	233
75	Deciphering the evolution and metabolism of an anammox bacterium from a community genome. <i>Nature</i> , 2006, 440, 790-794.	13.7	1,075
76	Global impact and application of the anaerobic ammonium-oxidizing (anammox) bacteria. <i>Biochemical Society Transactions</i> , 2006, 34, 174-178.	1.6	77
77	Propionate Oxidation by and Methanol Inhibition of Anaerobic Ammonium-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1066-1071.	1.4	353
78	Biomarkers for In Situ Detection of Anaerobic Ammonium-Oxidizing (Anammox) Bacteria. <i>Applied and Environmental Microbiology</i> , 2005, 71, 1677-1684.	1.4	325
79	Application, eco-physiology and biodiversity of anaerobic ammonium-oxidizing bacteria. <i>Reviews in Environmental Science and Biotechnology</i> , 2004, 3, 255-264.	3.9	71
80	Metabolism and Genomics of Anammox Bacteria. , 0, , 179-200.		10
81	Methods To Study Consortia and Mixed Cultures. , 0, , 205-219.		4