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## Inhibition by ammonia of methane utilization in *Methylococcus capsulatus* (Bath)

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#	Paper	IF	Citations
66	Membrane inlet mass spectrometry in pure and applied microbiology. <i>Journal of Microbiological Methods</i> , <b>1992</b> , 15, 185-197	2.8	36
65	Kinetics of CH <sub>4</sub> oxidation in oxic soils exposed to ambient air or high CH <sub>4</sub> mixing ratios. <i>FEMS Microbiology Ecology</i> , <b>1992</b> , 10, 261-269	4.3	165
64	Kinetics of CH <sub>4</sub> oxidation in oxic soils exposed to ambient air or high CH <sub>4</sub> mixing ratios. <i>FEMS Microbiology Letters</i> , <b>1992</b> , 101, 261-270	2.9	71
63	Nitrogen limited growth of a methanotrophic culture. <i>Bioprocess and Biosystems Engineering</i> , <b>1993</b> , 9, 119-127		3
62	Effect of mineral nutrients on the kinetics of methane utilization by methanotrophs. <i>Biodegradation</i> , <b>1993</b> , 4, 163-170	4.1	33
61	Kinetics of methane oxidation in oxic soils. <i>Chemosphere</i> , <b>1993</b> , 26, 687-696	8.4	85
60	Monoterpenes: Their effects on ecosystem nutrient cycling. <i>Journal of Chemical Ecology</i> , <b>1994</b> , 20, 1381-1406	4.7	152
59	On-line monitoring with feedback control of bioreactors using a high ethanol tolerance yeast by membrane introduction mass spectrometry. <i>Analytica Chimica Acta</i> , <b>1995</b> , 316, 269-276	6.6	24
58	Effect of fermentation conditions on N <sub>2</sub> fixation by <i>Methylococcus capsulatus</i> . <i>Bioprocess and Biosystems Engineering</i> , <b>1995</b> , 14, 9-15		3
57	Estimation of cell numbers of methanotrophic bacteria in boreal peatlands based on analysis of specific phospholipid fatty acids. <i>FEMS Microbiology Ecology</i> , <b>1995</b> , 18, 103-112	4.3	65
56	Effect of CH <sub>4</sub> concentrations and soil conditions on the induction of CH <sub>4</sub> oxidation activity. <i>Soil Biology and Biochemistry</i> , <b>1995</b> , 27, 1517-1527	7.5	238
55	Different NH <sub>4</sub> <sup>+</sup> -inhibition patterns of soil CH <sub>4</sub> consumption: A result of distinct CH <sub>4</sub> -oxidizer populations across sites?. <i>Soil Biology and Biochemistry</i> , <b>1997</b> , 29, 13-21	7.5	130
54	Numerical modeling and uncertainties in rate coefficients for methane utilization and TCE cometabolism by a methane-oxidizing mixed culture. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 53, 320-349	4.9	40
53	Methane oxidation in landfill cover soils, as revealed by potential oxidation measurements and phospholipid fatty acid analyses. <i>Soil Biology and Biochemistry</i> , <b>1998</b> , 30, 1423-1433	7.5	63
52	Methanotrophs, <i>Methylosinus trichosporium</i> OB3b, sMMO, and their application to bioremediation. <i>Critical Reviews in Microbiology</i> , <b>1998</b> , 24, 335-73	7.8	78
51	Low-concentration kinetics of atmospheric CH <sub>4</sub> oxidation in soil and mechanism of NH <sub>4</sub> <sup>+</sup> inhibition. <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 4291-8	4.8	110
50	Modelling the growth of a methanotrophic biofilm: estimation of parameters and variability. <i>Biodegradation</i> , <b>1999</b> , 10, 177-91	4.1	30

49	Methane Oxidation in Simulated Landfill Cover Soil Environments. <i>Environmental Science &amp; Technology</i> , <b>1999</b> , 33, 1854-1859	10.3	162
48	Plant-Associated Methane Oxidation in Rice Fields and Wetlands. <i>Advances in Microbial Ecology</i> , <b>2000</b> , 85-114		55
47	Methane oxidation and phospholipid fatty acid composition in a podzolic soil profile. <i>Soil Biology and Biochemistry</i> , <b>2000</b> , 32, 1025-1028	7.5	17
46	Methane fluxes from differentially managed grassland study plots: the important role of CH <sub>4</sub> oxidation in grassland with a high potential for CH <sub>4</sub> production. <i>Environmental Pollution</i> , <b>2001</b> , 115, 261-273	9.3	62
45	Methane oxidation in temperate soils: effects of inorganic N. <i>Soil Biology and Biochemistry</i> , <b>2004</b> , 36, 2059-2065	7.5	108
44	Community structure in a methanotroph biofilter as revealed by phospholipid fatty acid analysis. <i>FEMS Microbiology Letters</i> , <b>2004</b> , 240, 61-8	2.9	30
43	Effects of long-term nitrogen fertilization on the uptake kinetics of atmospheric methane in temperate forest soils. <i>FEMS Microbiology Ecology</i> , <b>2004</b> , 49, 389-400	4.3	53
42	Abundance and activity of uncultured methanotrophic bacteria involved in the consumption of atmospheric methane in two forest soils. <i>Environmental Microbiology</i> , <b>2005</b> , 7, 1150-61	5.2	148
41	Response and adaptation of different methanotrophic bacteria to low methane mixing ratios. <i>Environmental Microbiology</i> , <b>2005</b> , 7, 1307-17	5.2	134
40	Abundance, activity, and community structure of pelagic methane-oxidizing bacteria in temperate lakes. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 6746-52	4.8	98
39	References. <i>Advances in Marine Biology</i> , <b>2005</b> , 517-599	2.1	12
38	The active methanotrophic community in hydromorphic soils changes in response to changing methane concentration. <i>Environmental Microbiology</i> , <b>2006</b> , 8, 321-33	5.2	109
37	Effects of Plant Species Diversity and Composition on Nitrogen Cycling and the Trace Gas Balance of Soils. <i>Plant and Soil</i> , <b>2006</b> , 282, 83-98	4.2	103
36	Methane oxidation in termite hindguts: absence of evidence and evidence of absence. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 2024-8	4.8	24
35	Evaluation of methane-utilising bacteria products as feed ingredients for monogastric animals. <i>Archives of Animal Nutrition</i> , <b>2010</b> , 64, 171-89	2.7	111
34	Model of the molecular basis for hydroxylamine oxidation and nitrous oxide production in methanotrophic bacteria. <i>FEMS Microbiology Letters</i> , <b>2011</b> , 322, 82-9	2.9	78
33	Spatial variability of soil gas concentration and methane oxidation capacity in landfill covers. <i>Waste Management</i> , <b>2011</b> , 31, 926-34	8.6	35
32	Inhibition of methane oxidation in a slurry surface crust by inorganic nitrogen: an incubation study. <i>Journal of Environmental Quality</i> , <b>2013</b> , 42, 507-15	3.4	9

31	Low-level nitrogen deposition significantly inhibits methane uptake from an alpine meadow soil on the Qinghai-Tibetan Plateau. <i>Geoderma</i> , <b>2014</b> , 213, 444-452	6.7	44
30	Methane abatement in a gas-recycling biotrickling filter: Evaluating innovative operational strategies to overcome mass transfer limitations. <i>Chemical Engineering Journal</i> , <b>2014</b> , 253, 385-393	14.7	58
29	Effect of biomass concentration on methane oxidation activity using mature compost and graphite granules as substrata. <i>Waste Management</i> , <b>2016</b> , 56, 290-7	8.6	6
28	Evaluation of the influence of methane and copper concentration and methane mass transport on the community structure and biodegradation kinetics of methanotrophic cultures. <i>Journal of Environmental Management</i> , <b>2016</b> , 171, 11-20	7.9	26
27	Spatial micro-distribution of methanotrophic activity along a 120-year afforestation chronosequence. <i>Plant and Soil</i> , <b>2017</b> , 415, 13-23	4.2	3
26	Activity of Type I Methanotrophs Dominates under High Methane Concentration: Methanotrophic Activity in Slurry Surface Crusts as Influenced by Methane, Oxygen, and Inorganic Nitrogen. <i>Journal of Environmental Quality</i> , <b>2017</b> , 46, 767-775	3.4	8
25	Response of soil methane uptake to simulated nitrogen deposition and grazing management across three types of steppe in Inner Mongolia, China. <i>Science of the Total Environment</i> , <b>2018</b> , 612, 799-808	10.2	7
24	Bio-Methanol Production Using Treated Domestic Wastewater with Mixed Methanotroph Species and Anaerobic Digester Biogas. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 1414	3	9
23	Effects of plant diversity on greenhouse gas emissions in microcosms simulating vertical constructed wetlands with high ammonium loading. <i>Journal of Environmental Sciences</i> , <b>2019</b> , 77, 229-237	6.4	13
22	Development of a Combined Aerobic-Anoxic and Methane Oxidation Bioreactor System Using Mixed Methanotrophs and Biogas for Wastewater Denitrification. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1377	3	10
21	Dynamic investigation and modeling of the nitrogen cometabolism in <i>Methylococcus capsulatus</i> (Bath). <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 2884-2895	4.9	4
20	Simultaneous Denitrification and Bio-Methanol Production for Sustainable Operation of Biogas Plants. <i>Sustainability</i> , <b>2019</b> , 11, 6658	3.6	3
19	Grazing offsets the stimulating effects of nitrogen addition on soil CH <sub>4</sub> emissions in a meadow steppe in Northeast China. <i>PLoS ONE</i> , <b>2019</b> , 14, e0225862	3.7	1
18	Nitrogen deposition reduces methane uptake in both the growing and non-growing season in an alpine meadow. <i>Science of the Total Environment</i> , <b>2020</b> , 747, 141315	10.2	1
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16	A novel method to remove nitrogen from reject water in wastewater treatment plants using a methane- and methanol-dependent bacterial consortium. <i>Water Research</i> , <b>2020</b> , 172, 115512	12.5	22
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9	Kinetics of inhibition of methane oxidation by nitrate, nitrite, and ammonium in a humisol. <i>Applied and Environmental Microbiology</i> , <b>1995</b> , 61, 3129-35	4.8	163
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7	High-affinity methane oxidation by a soil enrichment culture containing a type II methanotroph. <i>Applied and Environmental Microbiology</i> , <b>1999</b> , 65, 1009-14	4.8	140
6	Improved Membrane Inlet Mass Spectrometer Method for Measuring Dissolved Methane Concentration and Methane Production Rate in a Large Shallow Lake. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 2699		2
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2	Responses of Soil N <sub>2</sub> O Emission and CH <sub>4</sub> Uptake to N Input in Chinese Forests across Climatic Zones: A Meta-Study. <i>Atmosphere</i> , <b>2022</b> , 13, 1145	2.7	
1	Increases in the Methane Uptake of Upland Forest Soil in China Could Significantly Contribute to Climate Change Mitigation. <b>2022</b> , 13, 1270		