# Svetlana N Dedysh

List of Publications by Year
in descending order



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|---|---|---|---|
| 148 papers | 8,547 citations | 38660 50 h-index | 54797 84 g-index |
| 186 all docs | 186 docs citations | 186 times ranked | 5519 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 13,16-Dimethyl Octacosanedioic Acid ( iso -Diabolic Acid), a Common Membrane-Spanning Lipid of Acidobacteria Subdivisions 1 and 3. Applied and Environmental Microbiology, 2011, 77, 4147-4154. | 1.4 | 359 |
| 2 | Methylocella Species Are Facultatively Methanotrophic. Journal of Bacteriology, 2005, 187, 4665-4670. | 1.0 | 265 |
| 3 | Phylogenetic Analysis and In Situ Identification of Bacteria Community Composition in an Acidic Sphagnum Peat Bog. Applied and Environmental Microbiology, 2006, 72, 2110-2117. | 1.4 | 262 |
| 4 | Methylocapsa acidiphila gen. nov., sp. nov., a novel methane-oxidizing and dinitrogen-fixing acidophilic bacterium from Sphagnum bog.. International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 251-261. | 0.8 | 240 |
| 5 | Methyloferula stellata gen. nov., sp. nov., an acidophilic, obligately methanotrophic bacterium that possesses only a soluble methane monooxygenase. International Journal of Systematic and Evolutionary Microbiology, 2011, 61, 2456-2463. | 0.8 | 233 |
| 6 | Methylocella silvestris sp. nov., a novel methanotroph isolated from an acidic forest cambisol. International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 1231-1239. | 0.8 | 211 |
| 7 | Bacterial populations and environmental factors controlling cellulose degradation in an acidicSphagnumpeat. Environmental Microbiology, 2011, 13, 1800-1814. | 1.8 | 204 |
| 8 | Mucilaginibacter paludis gen. nov., sp. nov. and Mucilaginibacter gracilis sp. nov., pectin-, xylan- and laminarin-degrading members of the family Sphingobacteriaceae from acidic Sphagnum peat bog. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 2349-2354. | 0.8 | 200 |
| 9 | Cold season CH4and CO2emission from boreal peat bogs (West Siberia): Winter fluxes and thaw activation dynamics. Global Biogeochemical Cycles, 2000, 14, 1071-1080. | 1.9 | 173 |
| 10 | Pyrosequencing-Based Assessment of the Bacteria Diversity in Surface and Subsurface Peat Layers of a Northern Wetland, with Focus on Poorly Studied Phyla and Candidate Divisions. PLoS ONE, 2013, 8, e63994. | 1.1 | 165 |
| 11 | Acidophilic Methanotrophic Communities from Sphagnum Peat Bogs. Applied and Environmental Microbiology, 1998, 64, 922-929. | 1.4 | 161 |
| 12 | Methylocella tundrae sp. nov., a novel methanotrophic bacterium from acidic tundra peatlands. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 151-156. | 0.8 | 156 |
| 13 | Granulicella paludicola gen. nov., sp. nov., Granulicella pectinivorans sp. nov., Granulicella aggregans sp. nov. and Granulicella rosea sp. nov., acidophilic, polymer-degrading acidobacteria from Sphagnum peat bogs. International Journal of Systematic and Evolutionary Microbiology, 2010, 60, 2951-2959. | 0.8 | 153 |
| 14 | Widespread soil bacterium that oxidizes atmospheric methane. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8515-8524. | 3.3 | 149 |
| 15 | Cultivating Uncultured Bacteria from Northern Wetlands: Knowledge Gained and Remaining Gaps. Frontiers in Microbiology, 2011, 2, 184. | 1.5 | 142 |
| 16 | Detection and Enumeration of Methanotrophs in Acidic Sphagnum Peat by 16S rRNA Fluorescence In Situ Hybridization, Including the Use of Newly Developed Oligonucleotide Probes for Methylocella palustris. Applied and Environmental Microbiology, 2001, 67, 4850-4857. | 1.4 | 141 |
| 17 | Telmatobacter bradus gen. nov., sp. nov., a cellulolytic facultative anaerobe from subdivision 1 of the Acidobacteria, and emended description of Acidobacterium capsulatum Kishimoto et al. 1991. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 430-437. | 0.8 | 137 |
| 18 | Lacipirellula parvula gen. nov., sp. nov., representing a lineage of planctomycetes widespread in low-oxygen habitats, description of the family Lacipirellulaceae fam. nov. and proposal of the orders Pirellulales ord. nov., Gemmatales ord. nov. and Isosphaerales ord. nov.. Systematic and Applied Microbiology, 2020, 43, 126050. | 1.2 | 134 |

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| 19 | Bryobacter aggregatus gen. nov., sp. nov., a peat-inhabiting, aerobic chemo-organotroph from subdivision 3 of the Acidobacteria. International Journal of Systematic and Evolutionary Microbiology, 2010, 60, 301-306. | 0.8 | 131 |
| 20 | Isolation of Acidophilic Methane-Oxidizing Bacteria from Northern Peat Wetlands. , 1998, 282, 281-284. | | 128 |
| 21 | Regulation of methane oxidation in the facultative methanotrophMethylocella silvestrisBL2. Molecular Microbiology, 2005, 58, 682-692. | 1.2 | 126 |
| 22 | NifH and NifD phylogenies: an evolutionary basis for understanding nitrogen fixation capabilities of methanotrophic bacteria. Microbiology (United Kingdom), 2004, 150, 1301-1313. | 0.7 | 123 |
| 23 | Methylocystis heyeri sp. nov., a novel type II methanotrophic bacterium possessing â€˜signatureâ€™ fatty acids of type I methanotrophs. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 472-479. | 0.8 | 123 |
| 24 | Methylocapsa aurea sp. nov., a facultative methanotroph possessing a particulate methane monooxygenase, and emended description of the genus Methylocapsa. International Journal of Systematic and Evolutionary Microbiology, 2010, 60, 2659-2664. | 0.8 | 120 |
| 25 | Methane-fed microbial microcosms show differential community dynamics and pinpoint taxa involved in communal response. ISME Journal, 2015, 9, 1119-1129. | 4.4 | 118 |
| 26 | An overview of the occurrence of ether- and ester-linked iso-diabolic acid membrane lipids in microbial cultures of the Acidobacteria: Implications for brGDGT paleoproxies for temperature and pH. Organic Geochemistry, 2018, 124, 63-76. | 0.9 | 117 |
| 27 | Substrate-induced growth and isolation of Acidobacteria from acidic Sphagnum peat. ISME Journal, 2008, 2, 551-560. | 4.4 | 111 |
| 28 | Singulisphaera acidiphila gen. nov., sp. nov., a non-filamentous, Isosphaera-like planctomycete from acidic northern wetlands. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 1186-1193. | 0.8 | 110 |
| 29 | Acetate utilization as a survival strategy of peatâ€inhabiting Methylocystis spp.. Environmental Microbiology Reports, 2011, 3, 36-46. | 1.0 | 109 |
| 30 | Refining the taxonomic structure of the phylum Acidobacteria. International Journal of Systematic and Evolutionary Microbiology, 2018, 68, 3796-3806. | 0.8 | 101 |
| 31 | Schlesneria paludicola gen. nov., sp. nov., the first acidophilic member of the order Planctomycetales, from Sphagnum-dominated boreal wetlands. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 2680-2687. | 0.8 | 93 |
| 32 | Planctomycetes in boreal and subarctic wetlands: diversity patterns and potential ecological functions. FEMS Microbiology Ecology, 2019, 95, . | 1.3 | 91 |
| 33 | Exploring methanotroph diversity in acidic northern wetlands: Molecular and cultivation-based studies. Microbiology, 2009, 78, 655-669. | 0.5 | 89 |
| 34 | Differential detection of type II methanotrophic bacteria in acidic peatlands using newly developed 16S rRNA-targeted fluorescent oligonucleotide probes. FEMS Microbiology Ecology, 2003, 43, 299-308. | 1.3 | 80 |
| 35 | Zavarzinella formosa gen. nov., sp. nov., a novel stalked, Gemmata-like planctomycete from a Siberian peat bog. International Journal of Systematic and Evolutionary Microbiology, 2009, 59, 357-364. | 0.8 | 80 |
| 36 | Complete Genome Sequence of the Aerobic Facultative Methanotroph Methylocella silvestris BL2. Journal of Bacteriology, 2010, 192, 3840-3841. | 1.0 | 79 |

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|---|---|---|---|
| 37 | Methylocystis bryophila sp. nov., a facultatively methanotrophic bacterium from acidic Sphagnum peat, and emended description of the genus Methylocystis (ex Whittenbury et al. 1970) Bowman et al. 1993. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 1096-1104. | 0.8 | 74 |
| 38 | High Diversity of Planctomycetes in Soils of Two Lichen-Dominated Sub-Arctic Ecosystems of Northwestern Siberia. Frontiers in Microbiology, 2016, 7, 2065. | 1.5 | 73 |
| 39 | Bryocella elongata gen. nov., sp. nov., a member of subdivision 1 of the Acidobacteria isolated from a methanotrophic enrichment culture, and emended description of Edaphobacter aggregans Koch et al. 2008. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 654-664. | 0.8 | 72 |
| 40 | Paludibaculum fermentans gen. nov., sp. nov., a facultative anaerobe capable of dissimilatory iron reduction from subdivision 3 of the Acidobacteria. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 2857-2864. | 0.8 | 72 |
| 41 | Acidicapsa borealis gen. nov., sp. nov. and Acidicapsa ligni sp. nov., subdivision 1 Acidobacteria from Sphagnum peat and decaying wood. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 1512-1520. | 0.8 | 66 |
| 42 | A new cell morphotype among methane oxidizers: a spiral-shaped obligately microaerophilic methanotroph from northern low-oxygen environments. ISME Journal, 2016, 10, 2734-2743. | 4.4 | 66 |
| 43 | Linking ecology and systematics of acidobacteria: Distinct habitat preferences of the AcidobacteriiaÂand Blastocatellia in tundra soils. PLoS ONE, 2020, 15, e0230157. | 1.1 | 65 |
| 44 | Telmatocola sphagniphila gen. nov., sp. nov., a Novel Dendriform Planctomycete from Northern Wetlands. Frontiers in Microbiology, 2012, 3, 146. | 1.5 | 64 |
| 45 | Methylomonas paludis sp. nov., the first acid-tolerant member of the genus Methylomonas , from an acidic wetland. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 2282-2289. | 0.8 | 63 |
| 46 | Facultative and Obligate Methanotrophs. Methods in Enzymology, 2011, 495, 31-44. | 0.4 | 61 |
| 47 | Microbiology of wetlands. Frontiers in Microbiology, 2013, 4, 79. | 1.5 | 61 |
| 48 | Identification of microbial populations driving biopolymer degradation in acidic peatlands by metatranscriptomic analysis. Molecular Ecology, 2016, 25, 4818-4835. | 2.0 | 60 |
| 49 | Genome Analysis of Fimbriiglobus ruber SP5 <sup>T</sup> , a Planctomycete with Confirmed Chitinolytic Capability. Applied and Environmental Microbiology, 2018, 84, . | 1.4 | 59 |
| 50 | Hydrolytic Capabilities as a Key to Environmental Success: Chitinolytic and Cellulolytic Acidobacteria From Acidic Sub-arctic Soils and Boreal Peatlands. Frontiers in Microbiology, 2018, 9, 2775. | 1.5 | 59 |
| 51 | Defining the taxonomic status of described subdivision 3 Acidobacteria: proposal of Bryobacteraceae fam. nov.. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 498-501. | 0.8 | 59 |
| 52 | Isolation of a Methylocystis strain containing a novel pmoA-like gene. FEMS Microbiology Ecology, 2002, 41, 17-26. | 1.3 | 56 |
| 53 | Fimbriiglobus ruber gen. nov., sp. nov., a Gemmata-like planctomycete from Sphagnum peat bog and the proposal of Gemmataceae fam. nov.. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 218-224. | 0.8 | 56 |
| 54 | Abundance, Diversity, and Depth Distribution of Planctomycetes in Acidic Northern Wetlands. Frontiers in Microbiology, 2012, 3, 5. | 1.5 | 55 |

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|---|---|---|---|
| 55 | Methanotrophic Bacteria of Acidic Sphagnum Peat Bogs. Microbiology, 2002, 71, 638-650. | 0.5 | 54 |
| 56 | Methylotrophic Autotrophy in Beijerinckia mobilis. Journal of Bacteriology, 2005, 187, 3884-3888. | 1.0 | 53 |
| 57 | Methylovirgula ligni gen. nov., sp. nov., an obligately acidophilic, facultatively methylotrophic bacterium with a highly divergent mxaF gene. International Journal of Systematic and Evolutionary Microbiology, 2009, 59, 2538-2545. | 0.8 | 53 |
| 58 | Paludisphaera borealis gen. nov., sp. nov., a hydrolytic planctomycete from northern wetlands, and proposal of Isosphaeraceae fam. nov.. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 837-844. | 0.8 | 53 |
| 59 | Descriptions of Roseiarcus fermentans gen. nov., sp. nov., a bacteriochlorophyll a-containing fermentative bacterium related phylogenetically to alphaproteobacterial methanotrophs, and of the family Roseiarcaceae fam. nov.. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 2558-2565. | 0.8 | 50 |
| 60 | Comparative Genomics of Four Isosphaeraceae Planctomycetes: A Common Pool of Plasmids and Glycoside Hydrolase Genes Shared by Paludisphaera borealis PX4T, Isosphaera pallida IS1BT, Singulisphaera acidiphila DSM 18658T, and Strain SH-PL62. Frontiers in Microbiology, 2017, 8, 412. | 1.5 | 47 |
| 61 | Retrieval of first genome data for rice cluster I methanogens by a combination of cultivation and molecular techniques. FEMS Microbiology Ecology, 2005, 53, 187-204. | 1.3 | 44 |
| 62 | Acidisoma tundrae gen. nov., sp. nov. and Acidisoma sibiricum sp. nov., two acidophilic, psychrotolerant members of the Alphaproteobacteria from acidic northern wetlands. International Journal of Systematic and Evolutionary Microbiology, 2009, 59, 2283-2290. | 0.8 | 44 |
| 63 | Novel Mono-, Di-, and Trimethylornithine Membrane Lipids in Northern Wetland Planctomycetes. Applied and Environmental Microbiology, 2013, 79, 6874-6884. | 1.4 | 44 |
| 64 | Rhodoblastus sphagnicola sp. nov., a novel acidophilic purple non-sulfur bacterium from Sphagnum peat bog. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 1397-1402. | 0.8 | 43 |
| 65 | Lateral gene transfer between the Bacteroidetes and Acidobacteria: The case of Î±â€<scp>l</scp>â€rhamnosidases. FEBS Letters, 2012, 586, 3843-3851. | 1.3 | 43 |
| 66 | Singulisphaera rosea sp. nov., a planctomycete from acidic Sphagnum peat, and emended description of the genus Singulisphaera. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 118-123. | 0.8 | 42 |
| 67 | Methylocapsa palsarum sp. nov., a methanotroph isolated from a subArctic discontinuous permafrost ecosystem. International Journal of Systematic and Evolutionary Microbiology, 2015, 65, 3618-3624. | 0.8 | 42 |
| 68 | Abundant Trimethylornithine Lipids and Specific Gene Sequences Are Indicative of Planctomycete Importance at the Oxic/Anoxic Interface in Sphagnum-Dominated Northern Wetlands. Applied and Environmental Microbiology, 2015, 81, 6333-6344. | 1.4 | 41 |
| 69 | Bacteria of the genus Burkholderia as a typical component of the microbial community of Sphagnum peat bogs. Microbiology, 2006, 75, 90-96. | 0.5 | 39 |
| 70 | Analysis of the bacterial community developing in the course of Sphagnum moss decomposition. Microbiology, 2007, 76, 621-629. | 0.5 | 39 |
| 71 | Planctomicrobium piriforme gen. nov., sp. nov., a stalked planctomycete from a littoral wetland of a boreal lake. International Journal of Systematic and Evolutionary Microbiology, 2015, 65, 1659-1665. | 0.8 | 38 |
| 72 | Asticcacaulis benevestitus sp. nov., a psychrotolerant, dimorphic, prosthecate bacterium from tundra wetland soil. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 2083-2088. | 0.8 | 38 |

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| 73 | Methylovulum psychrotolerans sp. nov., a cold-adapted methanotroph from low-temperature terrestrial environments, and emended description of the genus Methylovulum. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 2417-2423. | 0.8 | 38 |
| 74 | Isolation of aerobic, gliding, xylanolytic and laminarinolytic bacteria from acidic Sphagnum peatlands and emended description of Chitinophaga arvensicola KÃmpfer et al. 2006. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 2761-2764. | 0.8 | 36 |
| 75 | Frigoriglobus tundricola gen. nov., sp. nov., a psychrotolerant cellulolytic planctomycete of the family Gemmataceae from a littoral tundra wetland. Systematic and Applied Microbiology, 2020, 43, 126129. | 1.2 | 36 |
| 76 | Methylocella: a gourmand among methanotrophs. Trends in Microbiology, 2014, 22, 368-369. | 3.5 | 35 |
| 77 | Fatty Acid and Hopanoid Adaption to Cold in the Methanotroph Methylovulum psychrotolerans. Frontiers in Microbiology, 2019, 10, 589. | 1.5 | 35 |
| 78 | A novel pmoA lineage represented by the acidophilic methanotrophic bacterium Methylocapsa acidophila B2. Archives of Microbiology, 2001, 177, 117-121. | 1.0 | 34 |
| 79 | Wide distribution of Phycisphaeraâ€like planctomycetes from <scp>WD2101</scp> soil group in peatlands and genome analysis of the first cultivated representative. Environmental Microbiology, 2021, 23, 1510-1526. | 1.8 | 32 |
| 80 | Emended description of the family Beijerinckiaceae and transfer of the genera Chelatococcus and Camelimonas to the family Chelatococcaceae fam. nov.. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 3177-3182. | 0.8 | 31 |
| 81 | Metatranscriptomics reveals the hydrolytic potential of peat-inhabiting Planctomycetes. Antonie Van Leeuwenhoek, 2018, 111, 801-809. | 0.7 | 30 |
| 82 | Tundrisphaera lichenicola gen. nov., sp. nov., a psychrotolerant representative of the family Isosphaeraceae from lichen-dominated tundra soils. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 3583-3589. | 0.8 | 30 |
| 83 | Limnoglobus roseus gen. nov., sp. nov., a novel freshwater planctomycete with a giant genome from the family Gemmataceae. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 1240-1249. | 0.8 | 30 |
| 84 | Microbial community composition and methanotroph diversity of a subarctic wetland in Russia. Microbiology, 2016, 85, 583-591. | 0.5 | 29 |
| 85 | Detection of representatives of the Planctomycetes in Sphagnum peat bogs by molecular and cultivation approaches. Microbiology, 2006, 75, 329-335. | 0.5 | 28 |
| 86 | Cultivation of Methanotrophs. Springer Protocols, 2014, , 231-247. | 0.1 | 28 |
| 87 | Draft Genome Sequence of Methyloferula stellata AR4, an Obligate Methanotroph Possessing Only a Soluble Methane Monooxygenase. Genome Announcements, 2015, 3, . | 0.8 | 28 |
| 88 | Diversity and Phylogeny of Described Aerobic Methanotrophs. , 2018, , 17-42. | | 28 |
| 89 | Gammaproteobacterial Methanotrophs Dominate Cold Methane Seeps in Floodplains of West Siberian Rivers. Applied and Environmental Microbiology, 2014, 80, 5944-5954. | 1.4 | 27 |
| 90 | Pheno- and Genotyping of Hopanoid Production in Acidobacteria. Frontiers in Microbiology, 2017, 8, 968. | 1.5 | 26 |

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|---|---|---|---|
| 91 | Methane utilization by Methylobacterium species: new evidence but still no proof for an old controversy. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 1919-1920. | 0.8 | 25 |
| 92 | Evaluation of the Phylogenetic Diversity of Prokaryotic Microorganisms in Sphagnum Peat Bogs by Means of Fluorescence In Situ Hybridization (FISH). Microbiology, 2005, 74, 722-728. | 0.5 | 25 |
| 93 | 100â€yearâ€old enigma solved: identification, genomic characterization and biogeography of the yet uncultured Planctomyces bekefii. Environmental Microbiology, 2020, 22, 198-211. | 1.8 | 25 |
| 94 | Closely Located but Totally Distinct: Highly Contrasting Prokaryotic Diversity Patterns in Raised Bogs and Eutrophic Fens. Microorganisms, 2020, 8, 484. | 1.6 | 25 |
| 95 | Complete Genome Sequence of Beijerinckia indica subsp. indica. Journal of Bacteriology, 2010, 192, 4532-4533. | 1.0 | 19 |
| 96 | Abundance and diversity of methanotrophic Gammaproteobacteria in northern wetlands. Microbiology, 2014, 83, 67-76. | 0.5 | 19 |
| 97 | Distinct diversity patterns of Planctomycetes associated with the freshwater macrophyte Nuphar lutea (L.) Smith. Antonie Van Leeuwenhoek, 2018, 111, 811-823. | 0.7 | 19 |
| 98 | Unusual Genomic Traits Suggest Methylocystis bryophila S285 to Be Well Adapted for Life in Peatlands. Genome Biology and Evolution, 2018, 10, 623-628. | 1.1 | 18 |
| 99 | Edaphobacter lichenicola sp. nov., a member of the family Acidobacteriaceae from lichen-dominated forested tundra. International Journal of Systematic and Evolutionary Microbiology, 2018, 68, 1265-1270. | 0.8 | 18 |
| 100 | High abundance of planctomycetes in anoxic layers of a Sphagnum peat bog. Microbiology, 2006, 75, 716-719. | 0.5 | 17 |
| 101 | Larkinella arboricola sp. nov., a new spiral-shaped bacterium of the phylum Bacteroidetes isolated from the microbial community of decomposing wood. Microbiology, 2009, 78, 741-746. | 0.5 | 16 |
| 102 | Detection of Chitinolytic Capabilities in the Freshwater Planctomycete Planctomicrobium piriforme. Microbiology, 2019, 88, 423-432. | 0.5 | 16 |
| 103 | Pan-Genome-Based Analysis as a Framework for Demarcating Two Closely Related Methanotroph Genera Methylocystis and Methylosinus. Microorganisms, 2020, 8, 768. | 1.6 | 15 |
| 104 | Cellulolytic streptomycetes from Sphagnum peat bogs and factors controlling their activity. Microbiology, 2009, 78, 227-233. | 0.5 | 14 |
| 105 | Methylotetracoccus oryzae Strain C50C1 Is a Novel Type Ib Gammaproteobacterial Methanotroph Adapted to Freshwater Environments. MSphere, 2019, 4, . | 1.3 | 14 |
| 106 | Rokubacteria in Northern Peatlands: Habitat Preferences and Diversity Patterns. Microorganisms, 2022, 10, 11. | 1.6 | 14 |
| 107 | Methanotrophic bacteria in cold seeps of the floodplains of northern rivers. Microbiology, 2013, 82, 743-750. | 0.5 | 13 |
| 108 | Draft Genome Sequence of Methylocapsa palsarum NE2 T , an Obligate Methanotroph from Subarctic Soil. Genome Announcements, 2017, 5, . | 0.8 | 13 |

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| 109 | Granulicella sibirica sp. nov., a psychrotolerant acidobacterium isolated from an organic soil layer in forested tundra, West Siberia. International Journal of Systematic and Evolutionary Microbiology, 2019, 69, 1195-1201. | 0.8 | 13 |
| 110 | Phylogeny of Î²-xylanases from Planctomycetes. Molecular Biology, 2014, 48, 439-447. | 0.4 | 12 |
| 111 | Decline of activity and shifts in the methanotrophic community structure of an ombrotrophic peat bog after wildfire. Microbiology, 2015, 84, 624-629. | 0.5 | 12 |
| 112 | A novel filamentous planctomycete of the Isosphaera-Singulisphaera group isolated from a Sphagnum peat bog. Microbiology, 2012, 81, 446-452. | 0.5 | 11 |
| 113 | Thriving in Wetlands: Ecophysiology of the Spiral-Shaped Methanotroph Methylospira mobilis as Revealed by the Complete Genome Sequence. Microorganisms, 2019, 7, 683. | 1.6 | 11 |
| 114 | Methane-Oxidizing Communities in Lichen-Dominated Forested Tundra Are Composed Exclusively of High-Affinity USCÎ± Methanotrophs. Microorganisms, 2020, 8, 2047. | 1.6 | 11 |
| 115 | Molecular identification of filterable bacteria and archaea in the water of acidic lakes of northern Russia. Microbiology, 2012, 81, 281-287. | 0.5 | 10 |
| 116 | Inadequacy of enrichment culture technique for assessing the structure of methanotrophic communities in peat soil. Microbiology, 2008, 77, 504-507. | 0.5 | 9 |
| 117 | Shifts in a bacterial community composition of a mesotrophic peatland after wildfire. Microbiology, 2014, 83, 813-819. | 0.5 | 9 |
| 118 | Antimicrobial Activity of a Novel Freshwater Planctomycete Lacipirellula parvula PX69T. Microbiology, 2020, 89, 503-509. | 0.5 | 9 |
| 119 | Acidophilic Planctomycetes: Expanding the Horizons of New Planctomycete Diversity. , 2013, , 125-139. | | 9 |
| 120 | Peat-Inhabiting Verrucomicrobia of the Order Methylacidiphilales Do Not Possess Methanotrophic Capabilities. Microorganisms, 2021, 9, 2566. | 1.6 | 9 |
| 121 | Phylogenetic composition of bacterial communities in small boreal lakes and ombrotrophic bogs of the upper Volga basin. Microbiology, 2011, 80, 549-557. | 0.5 | 8 |
| 122 | Genomic Determinants of Phototrophy in Methanotrophic Alphaproteobacteria. Microbiology, 2019, 88, 548-555. | 0.5 | 7 |
| 123 | Expanding Characterized Diversity and the Pool of Complete Genome Sequences of Methylococcus Species, the Bacteria of High Environmental and Biotechnological Relevance. Frontiers in Microbiology, 2021, 12, 756830. | 1.5 | 7 |
| 124 | Atmospheric Methane Consumption and Methanotroph Communities in West Siberian Boreal Upland Forest Ecosystems. Forests, 2021, 12, 1738. | 0.9 | 7 |
| 125 | Filterable microbial forms in the Rybinsk water reservoir. Microbiology, 2013, 82, 728-734. | 0.5 | 6 |
| 126 | Complete genome sequence of the cellulolytic planctomycete Telmatocola sphagniphila SP2T and characterization of the first cellulolytic enzyme from planctomycetes. Systematic and Applied Microbiology, 2021, 44, 126276. | 1.2 | 6 |

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| 127 | Prokaryotic ultramicroforms in a Sphagnum peat bog of upper Volga catchment. Microbiology, 2012, 81, 614-620. | 0.5 | 5 |
| 128 | Draft Genome Sequence of Methylovulum psychrotolerans Sph1 T , an Obligate Methanotroph from Low-Temperature Environments. Genome Announcements, 2018, 6, . | 0.8 | 5 |
| 129 | Complete Genome Sequence of the Aerobic Facultative Methanotroph Methylocella tundrae Strain T4. Microbiology Resource Announcements, 2019, 8, . | 0.3 | 5 |
| 130 | Molecular Analysis of the Microbial Community Developing in Continuous Culture of Methylococcus sp. Concept-8 on Natural Gas. Microbiology, 2020, 89, 551-559. | 0.5 | 4 |
| 131 | Inhibition of Growth and Methane Consumption in Methylocapsa acidiphila by Mineral Salts. Microbiology, 2004, 73, 488-490. | 0.5 | 3 |
| 132 | Facultative Methane Oxidizers. , 2018, , 1-20. | | 3 |
| 133 | Draft Genome Sequence of Methylocystis heyeri H2 T , a Methanotroph with Habitat-Specific Adaptations, Isolated from a Peatland Ecosystem. Microbiology Resource Announcements, 2019, 8, . | 0.3 | 3 |
| 134 | Methanotrophy in Acidic Soils, Including Northern Peatlands. , 2019, , 133-156. | | 3 |
| 135 | Mucilaginibacter paludis gen. nov., sp. nov. and Mucilaginibacter gracilis sp. nov., pectin-, xylan- and laminarin-degrading members of the family Sphingobacteriaceae from acidic Sphagnum peat bog. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 2979-2979. | 0.8 | 3 |
| 136 | Methanotrophy in Acidic Soils, Including Northern Peatlands. , 2019, , 1-25. | | 2 |
| 137 | Complete Genome Sequence of Paludibaculum fermentans P105 <sup>T</sup> , a Facultatively Anaerobic Acidobacterium Capable of Dissimilatory Fe(III) Reduction. Microbiology Resource Announcements, 2021, 10, . | 0.3 | 2 |
| 138 | Facultative Methane Oxidizers. , 2019, , 279-297. | | 2 |
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