

Malin Bomberg

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

1,950
citations

257357

24
h-index

289141

40
g-index

78
all docs

78
docs citations

78
times ranked

2104
citing authors

#	ARTICLE	IF	CITATIONS
1	The biomass and biodiversity of the continental subsurface. <i>Nature Geoscience</i> , 2018, 11, 707-717.	5.4	299
2	Microbial co-occurrence patterns in deep Precambrian bedrock fracture fluids. <i>Biogeosciences</i> , 2016, 13, 3091-3108.	1.3	90
3	Archaea in dry soil environments. <i>Phytochemistry Reviews</i> , 2009, 8, 505-518.	3.1	77
4	Revealing the unexplored fungal communities in deep groundwater of crystalline bedrock fracture zones in Olkiluoto, Finland. <i>Frontiers in Microbiology</i> , 2015, 6, 573.	1.5	77
5	Heterotrophic Communities Supplied by Ancient Organic Carbon Predominate in Deep Fennoscandian Bedrock Fluids. <i>Microbial Ecology</i> , 2015, 69, 319-332.	1.4	68
6	Active Microbial Communities Inhabit Sulphate-Methane Interphase in Deep Bedrock Fracture Fluids in Olkiluoto, Finland. <i>BioMed Research International</i> , 2015, 2015, 1-17.	0.9	67
7	Nitrate and ammonia as nitrogen sources for deep subsurface microorganisms. <i>Frontiers in Microbiology</i> , 2015, 6, 1079.	1.5	61
8	Nested PCR detection of Archaea in defined compartments of pine mycorrhizospheres developed in boreal forest humus microcosms. <i>FEMS Microbiology Ecology</i> , 2003, 43, 163-171.	1.3	57
9	Dissecting the deep biosphere: retrieving authentic microbial communities from packer-isolated deep crystalline bedrock fracture zones. <i>FEMS Microbiology Ecology</i> , 2013, 85, 324-337.	1.3	53
10	Methanogenic and Sulphate-Reducing Microbial Communities in Deep Groundwater of Crystalline Rock Fractures in Olkiluoto, Finland. <i>Geomicrobiology Journal</i> , 2012, 29, 863-878.	1.0	49
11	Effect of Tree Species and Mycorrhizal Colonization on the Archaeal Population of Boreal Forest Rhizospheres. <i>Applied and Environmental Microbiology</i> , 2009, 75, 308-315.	1.4	48
12	Microbially induced corrosion of carbon steel in deep groundwater environment. <i>Frontiers in Microbiology</i> , 2015, 6, 647.	1.5	47
13	Distribution of Cren- and Euryarchaeota in Scots Pine Mycorrhizospheres and Boreal Forest Humus. <i>Microbial Ecology</i> , 2007, 54, 406-416.	1.4	44
14	<i>Methanospirillum stamsii</i> sp. nov., a psychrotolerant, hydrogenotrophic, methanogenic archaeon isolated from an anaerobic expanded granular sludge bed bioreactor operated at low temperature. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 180-186.	0.8	44
15	Rapid Reactivation of Deep Subsurface Microbes in the Presence of C-1 Compounds. <i>Microorganisms</i> , 2015, 3, 17-33.	1.6	42
16	Microbial communities and their predicted metabolic characteristics in deep fracture groundwaters of the crystalline bedrock at Olkiluoto, Finland. <i>Biogeosciences</i> , 2016, 13, 6031-6047.	1.3	42
17	The Variation of Microbial Communities in a Depth Profile of an Acidic, Nutrient-Poor Boreal Bog in Southwestern Finland. <i>Open Journal of Ecology</i> , 2014, 04, 832-859.	0.4	39
18	Response of Deep Subsurface Microbial Community to Different Carbon Sources and Electron Acceptors during 42 months Incubation in Microcosms. <i>Frontiers in Microbiology</i> , 2017, 8, 232.	1.5	39

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19	EIS study on aerobic corrosion of copper in ground water: influence of micro-organisms. <i>Electrochimica Acta</i> , 2017, 240, 163-174.	2.6	37
20	Oil degradation potential of microbial communities in water and sediment of Baltic Sea coastal area. <i>PLoS ONE</i> , 2019, 14, e0218834.	1.1	33
21	Ultradeep Microbial Communities at 4.4 km within Crystalline Bedrock: Implications for Habitability in a Planetary Context. <i>Life</i> , 2020, 10, 2.	1.1	33
22	Influence of Chlorination and Choice of Materials on Fouling in Cooling Water System under Brackish Seawater Conditions. <i>Materials</i> , 2016, 9, 475.	1.3	31
23	Diversity and functionality of archaeal, bacterial and fungal communities in deep Archaean bedrock groundwater. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	30
24	Reactivation of Deep Subsurface Microbial Community in Response to Methane or Methanol Amendment. <i>Frontiers in Microbiology</i> , 2017, 08, 431.	1.5	28
25	High Diversity in Iron Cycling Microbial Communities in Acidic, Iron-Rich Water of the Pyh�asalmi Mine, Finland. <i>Geofluids</i> , 2019, 2019, 1-17.	0.3	27
26	Anaerobic Eury- and Crenarchaeota inhabit ectomycorrhizas of boreal forest Scots pine. <i>European Journal of Soil Biology</i> , 2010, 46, 356-364.	1.4	23
27	Archaeal Communities in Boreal Forest Tree Rhizospheres Respond to Changing Soil Temperatures. <i>Microbial Ecology</i> , 2011, 62, 205-217.	1.4	23
28	Microbial fouling and corrosion of carbon steel in deep anoxic alkaline groundwater. <i>Biofouling</i> , 2017, 33, 195-209.	0.8	21
29	Corrosion and biofouling tendency of carbon steel in anoxic groundwater containing sulphate reducing bacteria and methanogenic archaea. <i>Corrosion Science</i> , 2019, 159, 108148.	3.0	20
30	The reduction of selenium(IV) by boreal <i>Pseudomonas</i> sp. strain T5-6-l �� Effects on selenium(IV) uptake in <i>Brassica oleracea</i> . <i>Environmental Research</i> , 2019, 177, 108642.	3.7	20
31	Corrosion of copper in oxygen-deficient groundwater with and without deep bedrock micro-organisms: Characterisation of microbial communities and surface processes. <i>Applied Surface Science</i> , 2017, 396, 1044-1057.	3.1	19
32	Review of Potential Microbial Effects on Flotation. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 533.	0.8	18
33	Application of Denaturing High-Performance Liquid Chromatography for Monitoring Sulfate-Reducing Bacteria in Oil Fields. <i>Applied and Environmental Microbiology</i> , 2013, 79, 5186-5196.	1.4	17
34	Characterization of the Bacterial and Sulphate Reducing Community in the Alkaline and Constantly Cold Water of the Closed Kotalahti Mine. <i>Minerals (Basel, Switzerland)</i> , 2015, 5, 452-472.	0.8	15
35	The Elusive Boreal Forest Thaumarchaeota. <i>Agronomy</i> , 2016, 6, 36.	1.3	15
36	The microbial impact on the sorption behaviour of selenite in an acidic, nutrient-poor boreal bog. <i>Journal of Environmental Radioactivity</i> , 2015, 147, 85-96.	0.9	14

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37	Rare Biosphere Archaea Assimilate Acetate in Precambrian Terrestrial Subsurface at 2.2 km Depth. <i>Geosciences (Switzerland)</i> , 2018, 8, 418.	1.0	14
38	Evaluation of Molecular Techniques in Characterization of Deep Terrestrial Biosphere. <i>Open Journal of Ecology</i> , 2014, 04, 468-487.	0.4	13
39	Sorption of radioiodide in an acidic, nutrient-poor boreal bog: insights into the microbial impact. <i>Journal of Environmental Radioactivity</i> , 2015, 143, 110-122.	0.9	13
40	Uptake of radioiodide by <i>Paenibacillus</i> sp., <i>Pseudomonas</i> sp., <i>Burkholderia</i> sp. and <i>Rhodococcus</i> sp. isolated from a boreal nutrient-poor bog. <i>Journal of Environmental Sciences</i> , 2016, 44, 26-37.	3.2	13
41	Microbial Community Structure and Functions in Ethanol-Fed Sulfate Removal Bioreactors for Treatment of Mine Water. <i>Microorganisms</i> , 2017, 5, 61.	1.6	13
42	Acetate Activates Deep Subsurface Fracture Fluid Microbial Communities in Olkiluoto, Finland. <i>Geosciences (Switzerland)</i> , 2018, 8, 399.	1.0	13
43	Highly Diverse Aquatic Microbial Communities Separated by Permafrost in Greenland Show Distinct Features According to Environmental Niches. <i>Frontiers in Microbiology</i> , 2019, 10, 1583.	1.5	12
44	Microbial communities in a former pilot-scale uranium mine in Eastern Finland – Association with radium immobilization. <i>Science of the Total Environment</i> , 2019, 686, 619-640.	3.9	12
45	First insights to the microbial communities in the plant process water of the multi-metal Kevitsa mine. <i>Research in Microbiology</i> , 2020, 171, 230-242.	1.0	12
46	Editorial: Geomicrobes: Life in Terrestrial Deep Subsurface. <i>Frontiers in Microbiology</i> , 2017, 8, 103.	1.5	11
47	CO ₂ and carbonate as substrate for the activation of the microbial community in 180 m deep bedrock fracture fluid of Outokumpu Deep Drill Hole, Finland. <i>AIMS Microbiology</i> , 2017, 3, 846-871.	1.0	11
48	Rock Surface Fungi in Deep Continental Biosphere – Exploration of Microbial Community Formation with Subsurface In Situ Biofilm Trap. <i>Microorganisms</i> , 2021, 9, 64.	1.6	11
49	Rare Earth Elements Recovery and Sulphate Removal from Phosphogypsum Waste Waters with Sulphate Reducing Bacteria. <i>Solid State Phenomena</i> , 0, 262, 573-576.	0.3	10
50	Post operation inactivation of acidophilic bioleaching microorganisms using natural chloride-rich mine water. <i>Hydrometallurgy</i> , 2018, 180, 236-245.	1.8	10
51	Identification and Metabolism of Naturally Prevailing Microorganisms in Zinc and Copper Mineral Processing. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 156.	0.8	10
52	Epilithic Microbial Community Functionality in Deep Oligotrophic Continental Bedrock. <i>Frontiers in Microbiology</i> , 2022, 13, 826048.	1.5	10
53	Challenges in the Assessment of Mining Process Water Quality. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 940.	0.8	8
54	Factors affecting the sorption of cesium in a nutrient-poor boreal bog. <i>Journal of Environmental Radioactivity</i> , 2015, 147, 22-32.	0.9	7

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55	Microbial Community Composition Correlates with Metal Sorption in an Ombrotrophic Boreal Bog: Implications for Radionuclide Retention. <i>Soil Systems</i> , 2021, 5, 19.	1.0	7
56	Uptake and reduction of Se(IV) in two heterotrophic aerobic &Pseudomonads& strains isolated from boreal bog environment. <i>AIMS Microbiology</i> , 2017, 3, 798-814.	1.0	7
57	Transformation of inherent microorganisms in Wyoming-type bentonite and their effects on structural iron. <i>Applied Clay Science</i> , 2022, 221, 106465.	2.6	7
58	Ni(II) Interactions in Boreal <i>Paenibacillus</i> sp., <i>Methylobacterium</i> sp., <i>Paraburkholderia</i> sp., and <i>Pseudomonas</i> sp. Strains Isolated From an Acidic, Ombrotrophic Bog. <i>Frontiers in Microbiology</i> , 2019, 10, 2677.	1.5	6
59	Influence of Carbon Sources and Concrete on Microbiologically Influenced Corrosion of Carbon Steel in Subterranean Groundwater Environment. <i>Corrosion</i> , 2016, 72, 1565-1579.	0.5	5
60	Microbial metabolic potential in deep crystalline bedrock. , 2021, , 41-70.		4
61	Data on the optimization of an archaea-specific probe-based qPCR assay. <i>Data in Brief</i> , 2020, 33, 106610.	0.5	4
62	Laboratory study of interactions between copper and microorganisms in oxic groundwater. <i>Environmental Geotechnics</i> , 2020, 7, 110-120.	1.3	3
63	The uptake of Ni ²⁺ and Ag ⁺ by bacterial strains isolated from a boreal nutrient-poor bog. <i>AIMS Microbiology</i> , 2016, 2, 120-137.	1.0	3
64	A Comparison of Different Natural Groundwaters from Repository Sitesâ€™ Corrosivity, Chemistry and Microbial Community. <i>Corrosion and Materials Degradation</i> , 2021, 2, 603-624.	1.0	3
65	The Diverse Indigenous Bacterial Community in the Rudna Mine Does Not Cause Dissolution of Copper from Kupferschiefer in Oxidic Conditions. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 366.	0.8	3
66	Evaluation of Long-Term Post Process Inactivation of Bioleaching Microorganisms. <i>Solid State Phenomena</i> , 2017, 262, 57-60.	0.3	2
67	Nested PCR detection of Archaea in defined compartments of pine mycorrhizospheres developed in boreal forest humus microcosms. <i>FEMS Microbiology Ecology</i> , 2003, 43, 163-171.	1.3	2
68	Microbially Induced Corrosion in Deep Bedrock. <i>Advanced Materials Research</i> , 0, 1130, 75-78.	0.3	2
69	Sulfate-reducing bioreactors subjected to high sulfate loading rate or acidity: variations in microbial consortia. <i>AMB Express</i> , 2022, 12, .	1.4	2
70	Deep Life and Gases in the Outokumpu Deep Borehole: Base Line Information for Nuclear Waste Disposal in Crystalline Rock. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1265, 1.	0.1	1
71	Bioremediation and Metal Resistant Bacteria in a Closed, Cold Northern Mine. <i>Advanced Materials Research</i> , 2015, 1130, 551-554.	0.3	1
72	Canonical Correlation Methods for Exploring Microbe-Environment Interactions in Deep Subsurface. <i>Lecture Notes in Computer Science</i> , 2015, , 299-307.	1.0	1

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73	Industrial Views to Microbe-Metal Interactions in Sub-Arctic Conditions. Advanced Materials Research, 0, 1130, 114-117.	0.3	0