

Elizaveta A Bonch-Osmolovskaya

List of Publications by Year in descending order

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76
papers

3,468
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117453

34
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155451

55
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docs citations

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times ranked

2776
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermogemmata fonticola gen. nov., sp. nov., the first thermophilic planctomycete of the order Gemmatales from a Kamchatka hot spring. <i>Systematic and Applied Microbiology</i> , 2021, 44, 126157.	1.2	22
2	Diversity and Metabolic Potential of the Terrestrial Mud Volcano Microbial Community with a High Abundance of Archaea Mediating the Anaerobic Oxidation of Methane. <i>Life</i> , 2021, 11, 953.	1.1	16
3	Diversity and Activity of Sulfate-Reducing Prokaryotes in Kamchatka Hot Springs. <i>Microorganisms</i> , 2021, 9, 2072.	1.6	10
4	Syntrophic growth of alkaliphilic anaerobes controlled by ferric and ferrous minerals transformation coupled to acetogenesis. <i>ISME Journal</i> , 2020, 14, 425-436.	4.4	15
5	Hot in Cold: Microbial Life in the Hottest Springs in Permafrost. <i>Microorganisms</i> , 2020, 8, 1308.	1.6	12
6	Dissimilatory sulfate reduction in the archaeon <i>Candidatus Vulcanisaeta moutnovskia</i> ™ sheds light on the evolution of sulfur metabolism. <i>Nature Microbiology</i> , 2020, 5, 1428-1438.	5.9	27
7	Siderite-based anaerobic iron cycle driven by autotrophic thermophilic microbial consortium. <i>Scientific Reports</i> , 2020, 10, 21661.	1.6	9
8	The first crenarchaeon capable of growth by anaerobic carbon monoxide oxidation coupled with H ₂ production. <i>Systematic and Applied Microbiology</i> , 2020, 43, 126064.	1.2	7
9	Novel Extracellular Electron Transfer Channels in a Gram-Positive Thermophilic Bacterium. <i>Frontiers in Microbiology</i> , 2020, 11, 597818.	1.5	14
10	<i>Alkalibaculum sporogenes</i> sp. nov., isolated from a terrestrial mud volcano and emended description of the genus <i>Alkalibaculum</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 4914-4919.	0.8	16
11	Genomic Insights into the Carbon and Energy Metabolism of a Thermophilic Deep-Sea Bacterium <i>Deferribacter autotrophicus</i> Revealed New Metabolic Traits in the Phylum <i>Deferribacteres</i> . <i>Genes</i> , 2019, 10, 849.	1.0	17
12	Form III RubisCO-mediated transaldolase variant of the Calvin cycle in a chemolithoautotrophic bacterium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18638-18646.	3.3	32
13	<i>Tautonia sociabilis</i> gen. nov., sp. nov., a novel thermotolerant planctomycete, isolated from a 4000 m deep subterranean habitat. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 69, 2299-2304.	0.8	24
14	New thermophilic prokaryotes with hydrolytic activities. <i>Microbiology Australia</i> , 2018, 39, 122.	0.1	3
15	Genomic Insights Into Energy Metabolism of <i>Carboxydocella thermautotrophica</i> Coupling Hydrogenogenic CO Oxidation With the Reduction of Fe(III) Minerals. <i>Frontiers in Microbiology</i> , 2018, 9, 1759.	1.5	23
16	Vertical Transmission from Russia. <i>Microbiology Australia</i> , 2018, 39, 113.	0.1	0
17	Microbial diversity and autotrophic activity in Kamchatka hot springs. <i>Extremophiles</i> , 2017, 21, 307-317.	0.9	76
18	Respiratory Ammonification of Nitrate Coupled to Anaerobic Oxidation of Elemental Sulfur in Deep-Sea Autotrophic Thermophilic Bacteria. <i>Frontiers in Microbiology</i> , 2017, 8, 87.	1.5	55

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19	Genomic Analysis of <i>Caldithrix abyssi</i> , the Thermophilic Anaerobic Bacterium of the Novel Bacterial Phylum Calditrichaeota. <i>Frontiers in Microbiology</i> , 2017, 8, 195.	1.5	66
20	Respiratory Pathways Reconstructed by Multi-Omics Analysis in <i>Melioribacter roseus</i> , Residing in a Deep Thermal Aquifer of the West-Siberian Megabasin. <i>Frontiers in Microbiology</i> , 2017, 8, 1228.	1.5	13
21	Sugar Metabolism of the First Thermophilic Planctomycete <i>Thermogutta terrifontis</i> : Comparative Genomic and Transcriptomic Approaches. <i>Frontiers in Microbiology</i> , 2017, 8, 2140.	1.5	29
22	<i>Sporosalibacterium tautonense</i> sp. nov., a thermotolerant, halophilic, hydrolytic bacterium isolated from a gold mine, and emended description of the genus <i>Sporosalibacterium</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 1457-1461.	0.8	9
23	<i>Calorithrix insularis</i> gen. nov., sp. nov., a novel representative of the phylum Calditrichaeota. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 1486-1490.	0.8	27
24	<i>Thermodesulfobium acidiphilum</i> sp. nov., a thermoacidophilic, sulfate-reducing, chemoautotrophic bacterium from a thermal site. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 1482-1485.	0.8	37
25	<i>Thermosulfuriphilus ammonigenes</i> gen. nov., sp. nov., a thermophilic, chemolithoautotrophic bacterium capable of respiratory ammonification of nitrate with elemental sulfur. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 3474-3479.	0.8	37
26	Isolation and Characterization of the First Xylanolytic Hyperthermophilic Euryarchaeon <i>Thermococcus</i> sp. Strain 2319x1 and Its Unusual Multidomain Glycosidase. <i>Frontiers in Microbiology</i> , 2016, 7, 552.	1.5	27
27	Stable and Variable Parts of Microbial Community in Siberian Deep Subsurface Thermal Aquifer System Revealed in a Long-Term Monitoring Study. <i>Frontiers in Microbiology</i> , 2016, 7, 2101.	1.5	27
28	Complete Genome Sequence of the Hyperthermophilic and Piezophilic Archaeon <i>Thermococcus barophilus</i> Ch5, Capable of Growth at the Expense of Hydrogenogenesis from Carbon Monoxide and Formate. <i>Genome Announcements</i> , 2016, 4, .	0.8	26
29	Reclassification of <i>Desulfurococcus mobilis</i> as a synonym of <i>Desulfurococcus mucosus</i> , <i>Desulfurococcus fermentans</i> and <i>Desulfurococcus kamchatkensis</i> as synonyms of <i>Desulfurococcus amylolyticus</i> , and emendation of the <i>D. mucosus</i> and <i>D. amylolyticus</i> species descriptions. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 514-517.	0.8	16
30	<i>Thermostilla marina</i> gen. nov., sp. nov., a thermophilic, facultatively anaerobic planctomycete isolated from a shallow submarine hydrothermal vent. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 633-638.	0.8	38
31	<i>Inmirania thermothiophila</i> gen. nov., sp. nov., a thermophilic, facultatively autotrophic, sulfur-oxidizing gammaproteobacterium isolated from a shallow-sea hydrothermal vent. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 701-706.	0.8	35
32	<i>Thermogladius calderae</i> gen. nov., sp. nov., an anaerobic, hyperthermophilic crenarchaeote from a Kamchatka hot spring. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 1407-1412.	0.8	19
33	<i>Tepidibacillus infernus</i> sp. nov., a moderately thermophilic, selenate- and arsenate-respiring hydrolytic bacterium isolated from a gold mine, and emended description of the genus <i>Tepidibacillus</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 3189-3194.	0.8	16
34	Structural studies of a thermophilic esterase from a new Planctomycetes species, <i>Thermogutta terrifontis</i> . <i>FEBS Journal</i> , 2015, 282, 2846-2857.	2.2	27
35	Complete genome sequence of and proposal of <i>Thermofilum uzonense</i> sp. nov. a novel hyperthermophilic crenarchaeon and emended description of the genus <i>Thermofilum</i> . <i>Standards in Genomic Sciences</i> , 2015, 10, 122.	1.5	23
36	Comparative Metagenomics of Eight Geographically Remote Terrestrial Hot Springs. <i>Microbial Ecology</i> , 2015, 70, 411-424.	1.4	118

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37	Editorial overview: Extremophiles: From extreme environments to highly stable biocatalysts. <i>Current Opinion in Microbiology</i> , 2015, 25, vii-viii.	2.3	5
38	Microbial life in Bourlyashchy, the hottest thermal pool of Uzon Caldera, Kamchatka. <i>Extremophiles</i> , 2015, 19, 1157-1171.	0.9	29
39	<i>Thermogutta terrifontis</i> gen. nov., sp. nov. and <i>Thermogutta hypogea</i> sp. nov., thermophilic anaerobic representatives of the phylum Planctomycetes. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 760-765.	0.8	76
40	The <i>Geoglobus acetivorans</i> Genome: Fe(III) Reduction, Acetate Utilization, Autotrophic Growth, and Degradation of Aromatic Compounds in a Hyperthermophilic Archaeon. <i>Applied and Environmental Microbiology</i> , 2015, 81, 1003-1012.	1.4	46
41	Analysis of the complete genome of <i>Fervidococcus fontis</i> confirms the distinct phylogenetic position of the order Fervidococcales and suggests its environmental function. <i>Extremophiles</i> , 2014, 18, 295-309.	0.9	15
42	<i>Thermosipho activus</i> sp. nov., a thermophilic, anaerobic, hydrolytic bacterium isolated from a deep-sea sample. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 3307-3313.	0.8	17
43	Characterization of <i>Melioribacter roseus</i> gen. nov., sp. nov., a novel facultatively anaerobic thermophilic cellulolytic bacterium from the class <i>Ignavibacteria</i> , and a proposal of a novel bacterial phylum <i>Ignavibacteriae</i> . <i>Environmental Microbiology</i> , 2013, 15, 1759-1771.	1.8	228
44	<i>Brockia lithotrophica</i> gen. nov., sp. nov., an anaerobic thermophilic bacterium from a terrestrial hot spring. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 479-483.	0.8	29
45	Genomic Analysis of <i>Melioribacter roseus</i> , Facultatively Anaerobic Organotrophic Bacterium Representing a Novel Deep Lineage within Bacteroidetes/Chlorobi Group. <i>PLoS ONE</i> , 2013, 8, e53047.	1.1	68
46	Complete Genome Sequence of <i>Desulfurococcus fermentans</i> , a Hyperthermophilic Cellulolytic Crenarchaeon Isolated from a Freshwater Hot Spring in Kamchatka, Russia. <i>Journal of Bacteriology</i> , 2012, 194, 5703-5704.	1.0	15
47	Complete Genome Sequence of the Hyperthermophilic Cellulolytic Crenarchaeon <i>Thermogladius cellulolyticus</i> 1633. <i>Journal of Bacteriology</i> , 2012, 194, 4446-4447.	1.0	22
48	<i>Carboxydotherrmus islandicus</i> sp. nov., a thermophilic, hydrogenogenic, carboxydophilic bacterium isolated from a hot spring. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2011, 61, 2532-2537.	0.8	20
49	<i>Fervidobacterium riparium</i> sp. nov., a thermophilic anaerobic cellulolytic bacterium isolated from a hot spring. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2011, 61, 2697-2701.	0.8	40
50	Anaerobic transformation of carbon monoxide by microbial communities of Kamchatka hot springs. <i>Extremophiles</i> , 2011, 15, 319-325.	0.9	39
51	Uncultured archaea dominate in the thermal groundwater of Uzon Caldera, Kamchatka. <i>Extremophiles</i> , 2011, 15, 365-372.	0.9	43
52	Complete Genome Sequence of <i>Vulcanisaeta moutnovskia</i> Strain 768-28, a Novel Member of the Hyperthermophilic Crenarchaeal Genus <i>Vulcanisaeta</i> . <i>Journal of Bacteriology</i> , 2011, 193, 2355-2356.	1.0	39
53	Complete Genome Sequence of the Thermoacidophilic Crenarchaeon <i>Thermoproteus uzoniensis</i> 768-20. <i>Journal of Bacteriology</i> , 2011, 193, 3156-3157.	1.0	30
54	Complete Genome Sequence of the Hyperthermophilic Archaeon <i>Thermococcus</i> sp. Strain AM4, Capable of Organotrophic Growth and Growth at the Expense of Hydrogenogenic or Sulfidogenic Oxidation of Carbon Monoxide. <i>Journal of Bacteriology</i> , 2011, 193, 7019-7020.	1.0	26

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55	Activity and Distribution of Thermophilic Prokaryotes in Hydrothermal Fluid, Sulfidic Structures, and Sheaths of Alvinellids (East Pacific Rise, 13°N). <i>Applied and Environmental Microbiology</i> , 2011, 77, 2803-2806.	1.4	12
56	<i>Fervidicoccus fontis</i> gen. nov., sp. nov., an anaerobic, thermophilic crenarchaeote from terrestrial hot springs, and proposal of <i>Fervidicoccaceae</i> fam. nov. and <i>Fervidicoccales</i> ord. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2010, 60, 2082-2088.	0.8	50
57	<i>Caldithrix palaeochoryensis</i> sp. nov., a thermophilic, anaerobic, chemo-organotrophic bacterium from a geothermally heated sediment, and emended description of the genus <i>Caldithrix</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2010, 60, 2120-2123.	0.8	57
58	Metabolic Versatility and Indigenous Origin of the Archaeon <i>Thermococcus sibiricus</i> , Isolated from a Siberian Oil Reservoir, as Revealed by Genome Analysis. <i>Applied and Environmental Microbiology</i> , 2009, 75, 4580-4588.	1.4	90
59	<i>Caldimicrobium rimae</i> gen. nov., sp. nov., an extremely thermophilic, facultatively lithoautotrophic, anaerobic bacterium from the Uzon Caldera, Kamchatka. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2009, 59, 1040-1044.	0.8	50
60	<i>Carboxydotherrmus siderophilus</i> sp. nov., a thermophilic, hydrogenogenic, carboxydrotrophic, dissimilatory Fe(III)-reducing bacterium from a Kamchatka hot spring. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2009, 59, 213-217.	0.8	36
61	Biodiversity of Thermophilic Prokaryotes with Hydrolytic Activities in Hot Springs of Uzon Caldera, Kamchatka (Russia). <i>Applied and Environmental Microbiology</i> , 2009, 75, 286-291.	1.4	101
62	<i>Caldicellulosiruptor kronotskyensis</i> sp. nov. and <i>Caldicellulosiruptor hydrothermalis</i> sp. nov., two extremely thermophilic, cellulolytic, anaerobic bacteria from Kamchatka thermal springs. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2008, 58, 1492-1496.	0.8	70
63	Distribution of <i>Crenarchaeota</i> Representatives in Terrestrial Hot Springs of Russia and Iceland. <i>Applied and Environmental Microbiology</i> , 2008, 74, 7620-7628.	1.4	56
64	<i>Ammonifex thiophilus</i> sp. nov., a hyperthermophilic anaerobic bacterium from a Kamchatka hot spring. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2008, 58, 2935-2938.	0.8	36
65	<i>Thermincola ferriacetica</i> sp. nov., a new anaerobic, thermophilic, facultatively chemolithoautotrophic bacterium capable of dissimilatory Fe(III) reduction. <i>Extremophiles</i> , 2007, 11, 1-7.	0.9	115
66	2 In Situ Activity Studies in Thermal Environments. <i>Methods in Microbiology</i> , 2006, , 29-53.	0.4	36
67	<i>Carboxydocella sporoproducens</i> sp. nov., a novel anaerobic CO-utilizing/H ₂ -producing thermophilic bacterium from a Kamchatka hot spring. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006, 56, 797-800.	0.8	70
68	Cultivated anaerobic acidophilic/acidotolerant thermophiles from terrestrial and deep-sea hydrothermal habitats. <i>Extremophiles</i> , 2005, 9, 437-448.	0.9	46
69	<i>Thermincola carboxydiphila</i> gen. nov., sp. nov., a novel anaerobic, carboxydrotrophic, hydrogenogenic bacterium from a hot spring of the Lake Baikal area. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 2069-2073.	0.8	73
70	<i>Thermosinus carboxydivorans</i> gen. nov., sp. nov., a new anaerobic, thermophilic, carbon-monoxide-oxidizing, hydrogenogenic bacterium from a hot pool of Yellowstone National Park. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2004, 54, 2353-2359.	0.8	114
71	The first evidence of anaerobic CO oxidation coupled with H ₂ production by a hyperthermophilic archaeon isolated from a deep-sea hydrothermal vent. <i>Extremophiles</i> , 2004, 8, 317-323.	0.9	118
72	<i>Caldithrix abyssi</i> gen. nov., sp. nov., a nitrate-reducing, thermophilic, anaerobic bacterium isolated from a Mid-Atlantic Ridge hydrothermal vent, represents a novel bacterial lineage. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2003, 53, 323-329.	0.8	132

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73	Radioisotopic, Culture-Based, and Oligonucleotide Microchip Analyses of Thermophilic Microbial Communities in a Continental High-Temperature Petroleum Reservoir. <i>Applied and Environmental Microbiology</i> , 2003, 69, 6143-6151.	1.4	160
74	Isolation and characterization of <i>Thermococcus sibiricus</i> sp. nov. from a Western Siberia high-temperature oil reservoir. <i>Extremophiles</i> , 2001, 5, 85-91.	0.9	91
75	Evidence for the presence of thermophilic Fe(III)-reducing microorganisms in deep-sea hydrothermal vents at 13°N (East Pacific Rise). <i>FEMS Microbiology Ecology</i> , 2001, 36, 235-243.	1.3	61
76	Dissimilatory Reduction of Fe(III) by Thermophilic Bacteria and Archaea in Deep Subsurface Petroleum Reservoirs of Western Siberia. <i>Current Microbiology</i> , 1999, 39, 99-102.	1.0	137