Elizaveta A Bonch-Osmolovskaya

List of Publications by Year
in descending order

76 papers	3,468 citations	117453 34 h-index	155451 55 g-index
82 all docs	82 docs citations	82 times ranked	2776 citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of <scp>M</scp>elioribacter roseus gen. nov., sp. nov., a novel facultatively anaerobic thermophilic cellulolytic bacterium from the class <scp>I</scp>gnavibacteria, and a proposal of a novel bacterial phylum <scp>I</scp>gnavibacteriae. Environmental Microbiology, 2013, 15, 1759-1771.	1.8	228
2	Radioisotopic, Culture-Based, and Oligonucleotide Microchip Analyses of Thermophilic Microbial Communities in a Continental High-Temperature Petroleum Reservoir. Applied and Environmental Microbiology, 2003, 69, 6143-6151.	1.4	160
3	Dissimilatory Reduction of Fe(III) by Thermophilic Bacteria and Archaea in Deep Subsurface Petroleum Reservoirs of Western Siberia. Current Microbiology, 1999, 39, 99-102.	1.0	137
4	Caldithrix abyssi gen. nov., sp. nov., a nitrate-reducing, thermophilic, anaerobic bacterium isolated from a Mid-Atlantic Ridge hydrothermal vent, represents a novel bacterial lineage. International Journal of Systematic and Evolutionary Microbiology, 2003, 53, 323-329.	0.8	132
5	The first evidence of anaerobic CO oxidation coupled with H2 production by a hyperthermophilic archaeon isolated from a deep-sea hydrothermal vent. Extremophiles, 2004, 8, 317-323.	0.9	118
6	Comparative Metagenomics of Eight Geographically Remote Terrestrial Hot Springs. Microbial Ecology, 2015, 70, 411-424.	1.4	118
7	Thermincola ferriacetica sp. nov., a new anaerobic, thermophilic, facultatively chemolithoautotrophic bacterium capable of dissimilatory Fe(III) reduction. Extremophiles, 2007, 11, 1-7.	0.9	115
8	Thermosinus carboxydivorans gen. nov., sp. nov., a new anaerobic, thermophilic, carbon-monoxide-oxidizing, hydrogenogenic bacterium from a hot pool of Yellowstone National Park. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 2353-2359.	0.8	114
9	Biodiversity of Thermophilic Prokaryotes with Hydrolytic Activities in Hot Springs of Uzon Caldera, Kamchatka (Russia). Applied and Environmental Microbiology, 2009, 75, 286-291.	1.4	101
10	Isolation and characterization of Thermococcus sibiricus sp. nov. from a Western Siberia high-temperature oil reservoir. Extremophiles, 2001, 5, 85-91.	0.9	91
11	Metabolic Versatility and Indigenous Origin of the Archaeon Thermococcus sibiricus , Isolated from a Siberian Oil Reservoir, as Revealed by Genome Analysis. Applied and Environmental Microbiology, 2009, 75, 4580-4588.	1.4	90
12	Thermogutta terrifontis gen. nov., sp. nov. and Thermogutta hypogea sp. nov., thermophilic anaerobic representatives of the phylum Planctomycetes. International Journal of Systematic and Evolutionary Microbiology, 2015, 65, 760-765.	0.8	76
13	Microbial diversity and autotrophic activity in Kamchatka hot springs. Extremophiles, 2017, 21, 307-317.	0.9	76
14	Thermincola carboxydiphila gen. nov., sp. nov., a novel anaerobic, carboxydotrophic, hydrogenogenic bacterium from a hot spring of the Lake Baikal area. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 2069-2073.	0.8	73
15	Carboxydocella sporoproducens sp. nov., a novel anaerobic CO-utilizing/H2-producing thermophilic bacterium from a Kamchatka hot spring. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 797-800.	0.8	70
16	Caldicellulosiruptor kronotskyensis sp. nov. and Caldicellulosiruptor hydrothermalis sp. nov., two extremely thermophilic, cellulolytic, anaerobic bacteria from Kamchatka thermal springs. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 1492-1496.	0.8	70
17	Genomic Analysis of Melioribacter roseus, Facultatively Anaerobic Organotrophic Bacterium Representing a Novel Deep Lineage within Bacteriodetes/Chlorobi Group. PLoS ONE, 2013, 8, e53047.	1.1	68
18	Genomic Analysis of Caldithrix abyssi, the Thermophilic Anaerobic Bacterium of the Novel Bacterial Phylum Calditrichaeota. Frontiers in Microbiology, 2017, 8, 195.	1.5	66

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19	Evidence for the presence of thermophilic Fe(III)-reducing microorganisms in deep-sea hydrothermal vents at 13Ã‚Â°N (East Pacific Rise). FEMS Microbiology Ecology, 2001, 36, 235-243.	1.3	61
20	Caldithrix palaeochoryensis sp. nov., a thermophilic, anaerobic, chemo-organotrophic bacterium from a geothermally heated sediment, and emended description of the genus Caldithrix. International Journal of Systematic and Evolutionary Microbiology, 2010, 60, 2120-2123.	0.8	57
21	Distribution of Crenarchaeota Representatives in Terrestrial Hot Springs of Russia and Iceland. Applied and Environmental Microbiology, 2008, 74, 7620-7628.	1.4	56
22	Respiratory Ammonification of Nitrate Coupled to Anaerobic Oxidation of Elemental Sulfur in Deep-Sea Autotrophic Thermophilic Bacteria. Frontiers in Microbiology, 2017, 8, 87.	1.5	55
23	Caldimicrobium rimae gen. nov., sp. nov., an extremely thermophilic, facultatively lithoautotrophic, anaerobic bacterium from the Uzon Caldera, Kamchatka. International Journal of Systematic and Evolutionary Microbiology, 2009, 59, 1040-1044.	0.8	50
24	Fervidicoccus fontis gen. nov., sp. nov., an anaerobic, thermophilic crenarchaeote from terrestrial hot springs, and proposal of Fervidicoccaceae fam. nov. and Fervidicoccales ord. nov.. International Journal of Systematic and Evolutionary Microbiology, 2010, 60, 2082-2088.	0.8	50
25	Cultivated anaerobic acidophilic/acidotolerant thermophiles from terrestrial and deep-sea hydrothermal habitats. Extremophiles, 2005, 9, 437-448.	0.9	46
26	The Geoglobus acetivorans Genome: Fe(III) Reduction, Acetate Utilization, Autotrophic Growth, and Degradation of Aromatic Compounds in a Hyperthermophilic Archaeon. Applied and Environmental Microbiology, 2015, 81, 1003-1012.	1.4	46
27	Uncultured archaea dominate in the thermal groundwater of Uzon Caldera, Kamchatka. Extremophiles, 2011, 15, 365-372.	0.9	43
28	Fervidobacterium riparium sp. nov., a thermophilic anaerobic cellulolytic bacterium isolated from a hot spring. International Journal of Systematic and Evolutionary Microbiology, 2011, 61, 2697-2701.	0.8	40
29	Anaerobic transformation of carbon monoxide by microbial communities of Kamchatka hot springs. Extremophiles, 2011, 15, 319-325.	0.9	39
30	Complete Genome Sequence of â€œVulcanisaeta moutnovskiaâ€•Strain 768-28, a Novel Member of the Hyperthermophilic Crenarchaeal Genus Vulcanisaeta. Journal of Bacteriology, 2011, 193, 2355-2356.	1.0	39
31	Thermostilla marina gen. nov., sp. nov., a thermophilic, facultatively anaerobic planctomycete isolated from a shallow submarine hydrothermal vent. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 633-638.	0.8	38
32	Thermodesulfobium acidiphilum sp. nov., a thermoacidophilic, sulfate-reducing, chemoautotrophic bacterium from a thermal site. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 1482-1485.	0.8	37
33	Thermosulfuriphilus ammonigenes gen. nov., sp. nov., a thermophilic, chemolithoautotrophic bacterium capable of respiratory ammonification of nitrate with elemental sulfur. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 3474-3479.	0.8	37
34	2 In Situ Activity Studies in Thermal Environments. Methods in Microbiology, 2006, , 29-53.	0.4	36
35	Ammonifex thiophilus sp. nov., a hyperthermophilic anaerobic bacterium from a Kamchatka hot spring. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 2935-2938.	0.8	36
36	Carboxydothermus siderophilus sp. nov., a thermophilic, hydrogenogenic, carboxydotrophic, dissimilatory Fe(III)-reducing bacterium from a Kamchatka hot spring. International Journal of Systematic and Evolutionary Microbiology, 2009, 59, 213-217.	0.8	36

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37	Inmirania thermothiophila gen. nov., sp. nov., a thermophilic, facultatively autotrophic, sulfur-oxidizing gammaproteobacterium isolated from a shallow-sea hydrothermal vent. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 701-706.	0.8	35
38	Form III RubisCO-mediated transaldolase variant of the Calvin cycle in a chemolithoautotrophic bacterium. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18638-18646.	3.3	32
39	Complete Genome Sequence of the Thermoacidophilic Crenarchaeon Thermoproteus uzoniensis 768-20. Journal of Bacteriology, 2011, 193, 3156-3157.	1.0	30
40	Brockia lithotrophica gen. nov., sp. nov., an anaerobic thermophilic bacterium from a terrestrial hot spring. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 479-483.	0.8	29
41	Microbial life in Bourlyashchy, the hottest thermal pool of Uzon Caldera, Kamchatka. Extremophiles, 2015, 19, 1157-1171.	0.9	29
42	Sugar Metabolism of the First Thermophilic Planctomycete Thermogutta terrifontis: Comparative Genomic and Transcriptomic Approaches. Frontiers in Microbiology, 2017, 8, 2140.	1.5	29
43	Structural studies of a thermophilic esterase from a new Planctomycetes species, ThermoguttaÂterrifontis. FEBS Journal, 2015, 282, 2846-2857.	2.2	27
44	Isolation and Characterization of the First Xylanolytic Hyperthermophilic Euryarchaeon Thermococcus sp. Strain 2319x1 and Its Unusual Multidomain Glycosidase. Frontiers in Microbiology, 2016, 7, 552.	1.5	27
45	Stable and Variable Parts of Microbial Community in Siberian Deep Subsurface Thermal Aquifer System Revealed in a Long-Term Monitoring Study. Frontiers in Microbiology, 2016, 7, 2101.	1.5	27
46	Dissimilatory sulfate reduction in the archaeon â€˜Candidatus Vulcanisaeta moutnovskiaâ€™ sheds light on the evolution of sulfur metabolism. Nature Microbiology, 2020, 5, 1428-1438.	5.9	27
47	Calorithrix insularis gen. nov., sp. nov., a novel representative of the phylum Calditrichaeota. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 1486-1490.	0.8	27
48	Complete Genome Sequence of the Hyperthermophilic Archaeon Thermococcus sp. Strain AM4, Capable of Organotrophic Growth and Growth at the Expense of Hydrogenogenic or Sulfidogenic Oxidation of Carbon Monoxide. Journal of Bacteriology, 2011, 193, 7019-7020.	1.0	26
49	Complete Genome Sequence of the Hyperthermophilic and Piezophilic Archaeon Thermococcus barophilus Ch5, Capable of Growth at the Expense of Hydrogenogenesis from Carbon Monoxide and Formate. Genome Announcements, 2016, 4, .	0.8	26
50	Tautonia sociabilis gen. nov., sp. nov., a novel thermotolerant planctomycete, isolated from a 4000 m deep subterranean habitat. International Journal of Systematic and Evolutionary Microbiology, 2019, 69, 2299-2304.	0.8	24
51	Complete genome sequence of and proposal of Thermofilum uzonense sp. nov. a novel hyperthermophilic crenarchaeon and emended description of the genus Thermofilum. Standards in Genomic Sciences, 2015, 10, 122.	1.5	23
52	Genomic Insights Into Energy Metabolism of Carboxydocella thermautotrophica Coupling Hydrogenogenic CO Oxidation With the Reduction of Fe(III) Minerals. Frontiers in Microbiology, 2018, 9, 1759.	1.5	23
53	Complete Genome Sequence of the Hyperthermophilic Cellulolytic Crenarchaeon â€œThermogladius cellulolyticusâ€•1633. Journal of Bacteriology, 2012, 194, 4446-4447.	1.0	22
54	Thermogemmata fonticola gen. nov., sp. nov., the first thermophilic planctomycete of the order Gemmatales from a Kamchatka hot spring. Systematic and Applied Microbiology, 2021, 44, 126157.	1.2	22

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55	Carboxydothermus islandicus sp. nov., a thermophilic, hydrogenogenic, carboxydotrophic bacterium isolated from a hot spring. International Journal of Systematic and Evolutionary Microbiology, 2011, 61, 2532-2537.	0.8	20
56	Thermogladius calderae gen. nov., sp. nov., an anaerobic, hyperthermophilic crenarchaeote from a Kamchatka hot spring. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 1407-1412.	0.8	19
57	Thermosipho activus sp. nov., a thermophilic, anaerobic, hydrolytic bacterium isolated from a deep-sea sample. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 3307-3313.	0.8	17
58	Genomic Insights into the Carbon and Energy Metabolism of a Thermophilic Deep-Sea Bacterium Deferribacter autotrophicus Revealed New Metabolic Traits in the Phylum Deferribacteres. Genes, 2019, 10, 849.	1.0	17
59	Diversity and Metabolic Potential of the Terrestrial Mud Volcano Microbial Community with a High Abundance of Archaea Mediating the Anaerobic Oxidation of Methane. Life, 2021, 11, 953.	1.1	16
60	Reclassification of Desulfurococcus mobilis as a synonym of Desulfurococcus mucosus, Desulfurococcus fermentans and Desulfurococcus kamchatkensis as synonyms of Desulfurococcus amylolyticus, and emendation of the D. mucosus and D. amylolyticus species descriptions. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 514-517.	0.8	16
61	Tepidibacillus infernus sp. nov., a moderately thermophilic, selenate- and arsenate-respiring hydrolytic bacterium isolated from a gold mine, and emended description of the genus Tepidibacillus. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 3189-3194.	0.8	16
62	Alkalibaculum sporogenes sp. nov., isolated from a terrestrial mud volcano and emended description of the genus Alkalibaculum. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 4914-4919.	0.8	16
63	Complete Genome Sequence of Desulfurococcus fermentans, a Hyperthermophilic Cellulolytic Crenarchaeon Isolated from a Freshwater Hot Spring in Kamchatka, Russia. Journal of Bacteriology, 2012, 194, 5703-5704.	1.0	15
64	Analysis of the complete genome of Fervidococcus fontis confirms the distinct phylogenetic position of the order Fervidicoccales and suggests its environmental function. Extremophiles, 2014, 18, 295-309.	0.9	15
65	Syntrophic growth of alkaliphilic anaerobes controlled by ferric and ferrous minerals transformation coupled to acetogenesis. ISME Journal, 2020, 14, 425-436.	4.4	15
66	Novel Extracellular Electron Transfer Channels in a Gram-Positive Thermophilic Bacterium. Frontiers in Microbiology, 2020, 11, 597818.	1.5	14
67	Respiratory Pathways Reconstructed by Multi-Omics Analysis in Melioribacter roseus, Residing in a Deep Thermal Aquifer of the West-Siberian Megabasin. Frontiers in Microbiology, 2017, 8, 1228.	1.5	13
68	Activity and Distribution of Thermophilic Prokaryotes in Hydrothermal Fluid, Sulfidic Structures, and Sheaths of Alvinellids (East Pacific Rise, 13Â°N). Applied and Environmental Microbiology, 2011, 77, 2803-2806.	1.4	12
69	Hot in Cold: Microbial Life in the Hottest Springs in Permafrost. Microorganisms, 2020, 8, 1308.	1.6	12
70	Diversity and Activity of Sulfate-Reducing Prokaryotes in Kamchatka Hot Springs. Microorganisms, 2021, 9, 2072.	1.6	10
71	Siderite-based anaerobic iron cycle driven by autotrophic thermophilic microbial consortium. Scientific Reports, 2020, 10, 21661.	1.6	9
72	Sporosalibacterium tautonense sp. nov., a thermotolerant, halophilic, hydrolytic bacterium isolated from a gold mine, and emended description of the genus Sporosalibacterium. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 1457-1461.	0.8	9

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73	The first crenarchaeon capable of growth by anaerobic carbon monoxide oxidation coupled with H2 production. Systematic and Applied Microbiology, 2020, 43, 126064.	1.2	7
74	Editorial overview: Extremophiles: From extreme environments to highly stable biocatalysts. Current Opinion in Microbiology, 2015, 25, vii-viii.	2.3	5
75	New thermophilic prokaryotes with hydrolytic activities. Microbiology Australia, 2018, 39, 122.	0.1	3
76	Vertical Transmission from Russia. Microbiology Australia, 2018, 39, 113.	0.1	0