

Elena A Vorobyova

List of Publications by Year in descending order

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30
papers

899
citations

759233

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501196

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30
all docs

30
docs citations

30
times ranked

858
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial Populations in Antarctic Permafrost: Biodiversity, State, Age, and Implication for Astrobiology. <i>Astrobiology</i> , 2007, 7, 275-311.	3.0	243
2	The deep cold biosphere: facts and hypothesis. <i>FEMS Microbiology Reviews</i> , 1997, 20, 277-290.	8.6	201
3	Long-term preservation of microbial ecosystems in permafrost. <i>Advances in Space Research</i> , 1992, 12, 255-263.	2.6	103
4	The Structure of Resting Bacterial Populations in Soil and Subsoil Permafrost. <i>Astrobiology</i> , 2004, 4, 345-358.	3.0	84
5	Soil bacterial communities of Sahara and Gibson deserts: Physiological and taxonomical characteristics. <i>AIMS Microbiology</i> , 2018, 4, 685-710.	2.2	34
6	100 kGy gamma-affected microbial communities within the ancient Arctic permafrost under simulated Martian conditions. <i>Extremophiles</i> , 2017, 21, 1057-1067.	2.3	32
7	The resistance of viable permafrost algae to simulated environmental stresses: implications for astrobiology. <i>International Journal of Astrobiology</i> , 2003, 2, 171-177.	1.6	29
8	Exobiology of the Venusian Clouds: New Insights into Habitability through Terrestrial Models and Methods of Detection. <i>Astrobiology</i> , 2021, 21, 1186-1205.	3.0	19
9	The deep cold biosphere: facts and hypothesis. <i>FEMS Microbiology Reviews</i> , 1997, 20, 277-290.	8.6	19
10	Microorganisms and enzyme activity in permafrost after removal of long-term cold stress. <i>Advances in Space Research</i> , 1996, 18, 103-108.	2.6	18
11	Strategies for detection of putative life on Europa. <i>Advances in Space Research</i> , 2011, 48, 678-688.	2.6	17
12	Survivability of Soil and Permafrost Microbial Communities after Irradiation with Accelerated Electrons under Simulated Martian and Open Space Conditions. <i>Geosciences (Switzerland)</i> , 2018, 8, 298.	2.2	14
13	Stress-Tolerance and Taxonomy of Culturable Bacterial Communities Isolated from a Central Mojave Desert Soil Sample. <i>Geosciences (Switzerland)</i> , 2019, 9, 166.	2.2	14
14	Microbial activity in Martian analog soils after ionizing radiation: implications for the preservation of subsurface life on Mars. <i>AIMS Microbiology</i> , 2018, 4, 541-562.	2.2	12
15	A New Method and Mass-Spectrometric Instrument for Extraterrestrial Microbial Life Detection Using the Elemental Composition Analyses of Martian Regolith and Permafrost/Ice. <i>Astrobiology</i> , 2017, 17, 448-458.	3.0	11
16	Microbial communities of ancient seeds derived from permanently frozen Pleistocene deposits. <i>Microbiology</i> , 2008, 77, 348-355.	1.2	10
17	Role of cell differentiation in high tolerance by prokaryotes of long-term preservation in permafrost. <i>Advances in Space Research</i> , 1996, 18, 97-101.	2.6	7
18	Viability of the soddy podzolic soil microbial community after 148-1250 kGy gamma irradiation. <i>Planetary and Space Science</i> , 2019, 172, 8-13.	1.7	5

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19	Europa Lander Mission: A Challenge to Find Traces of Alien Life. Proceedings of the International Astronomical Union, 2010, 6, 115-129.	0.0	4
20	Microbial Communities of Soils and Soil-like Bodies in Extreme Conditions of East Antarctica. Paleontological Journal, 2018, 52, 1186-1195.	0.5	4
21	Atomic force microscopy studies of living bacterial cells in native soil and permafrost. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 169, 33-35.	3.5	3
22	Effect of Gamma Radiation on Viability of a Soil Microbial Community under Conditions of Mars. Paleontological Journal, 2018, 52, 1217-1223.	0.5	3
23	Prokaryotic Community of the Ancient Antarctic Permafrost after Irradiation with Gamma Rays under Simulated Martian Conditions. Eurasian Soil Science, 2021, 54, 417-423.	1.6	3
24	Resistance of Enzymes to Ionizing Radiation under Model Conditions of the Martian Regolith. Solar System Research, 2021, 55, 383-388.	0.7	3
25	Phobos LIFE (Living Interplanetary Flight Experiment). Astrobiology, 2019, 19, 1177-1185.	3.0	2
26	Culturable Bacterial Communities Isolated from Cryo-Arid Soils: Phylogenetic and Physiological Characteristics. Paleontological Journal, 2020, 54, 903-912.	0.5	2
27	Detection of microbial cells and preliminary estimation of their physiological state by x-ray microanalysis. , 2003, 4939, 219.		1
28	Gamma-IR Resistance of Bacteria in Soil and Permafrost. Paleontological Journal, 2018, 52, 1204-1216.	0.5	1
29	Survival and growth of soil microbial communities under influence of sodium perchlorates. International Journal of Astrobiology, 2021, 20, 36-47.	1.6	1
30	Effects of Radiation Intensity, Mineral Matrix, and Pre-Irradiation on the Bacterial Resistance to Gamma Irradiation under Low Temperature Conditions. Microorganisms, 2021, 9, 198.	3.6	0