

Daniela Billi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54
papers

2,005
citations

25
h-index

44
g-index

58
ext. papers

2,365
ext. citations

3.4
avg. IF

4.91
L-index

#	Paper	IF	Citations
54	Life and death of dried prokaryotes. <i>Research in Microbiology</i> , 2002 , 153, 7-12	4	245
53	Ionizing-radiation resistance in the desiccation-tolerant cyanobacterium <i>Chroococcidiopsis</i> . <i>Applied and Environmental Microbiology</i> , 2000 , 66, 1489-92	4.8	242
52	Effects of a simulated martian UV flux on the cyanobacterium, <i>Chroococcidiopsis</i> sp. 029. <i>Astrobiology</i> , 2005 , 5, 127-40	3.7	140
51	Effect of desiccation on envelopes of the cyanobacterium <i>Chroococcidiopsis</i> sp. (Chroococcales). <i>European Journal of Phycology</i> , 1996 , 31, 97-105	2.2	84
50	Limits of Life and the Habitability of Mars: The ESA Space Experiment BIOMEX on the ISS. <i>Astrobiology</i> , 2019 , 19, 145-157	3.7	73
49	The subaerophytic cyanobacterium <i>Oculatella subterranea</i> (Oscillatoriales, Cyanophyceae) gen. et sp. nov.: a cytomorphological and molecular description. <i>European Journal of Phycology</i> , 2012 , 47, 341-354 ²	2.2	72
48	Subcellular integrities in <i>Chroococcidiopsis</i> sp. CCME029 survivors after prolonged desiccation revealed by molecular probes and genome stability assays. <i>Extremophiles</i> , 2009 , 13, 49-57	3	71
47	Engineering desiccation tolerance in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2000 , 66, 1680-4	4.8	71
46	Sustainable life support on Mars [the potential roles of cyanobacteria]. <i>International Journal of Astrobiology</i> , 2016 , 15, 65-92	1.4	69
45	Supporting Mars exploration: BIOMEX in Low Earth Orbit and further astrobiological studies on the Moon using Raman and PanCam technology. <i>Planetary and Space Science</i> , 2012 , 74, 103-110	2	67
44	Cytomorphological and genetic characterization of troglobitic <i>Leptolyngbya</i> strains isolated from Roman hypogea. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 608-17	4.8	60
43	Gene transfer to the desiccation-tolerant cyanobacterium <i>Chroococcidiopsis</i> . <i>Journal of Bacteriology</i> , 2001 , 183, 2298-305	3.5	58
42	Damage escape and repair in dried <i>Chroococcidiopsis</i> spp. from hot and cold deserts exposed to simulated space and martian conditions. <i>Astrobiology</i> , 2011 , 11, 65-73	3.7	50
41	The BOSS and BIOMEX space experiments on the EXPOSE-R2 mission: Endurance of the desert cyanobacterium <i>Chroococcidiopsis</i> under simulated space vacuum, Martian atmosphere, UVC radiation and temperature extremes.. <i>Acta Astronautica</i> , 2013 , 91, 180-186	2.9	48
40	Effects of nitrogen limitation and starvation on <i>Chroococcidiopsis</i> sp. (Chroococcales). <i>New Phytologist</i> , 1996 , 133, 563-571	9.8	45
39	A method for DNA extraction from the desert cyanobacterium <i>Chroococcidiopsis</i> and its application to identification of <i>ftsZ</i> . <i>Applied and Environmental Microbiology</i> , 1998 , 64, 4053-6	4.8	42
38	Space as a Tool for Astrobiology: Review and Recommendations for Experimentations in Earth Orbit and Beyond. <i>Space Science Reviews</i> , 2017 , 209, 83-181	7.5	39

37	Endurance of the endolithic desert cyanobacterium <i>Chroococcidiopsis</i> under UVC radiation. <i>Extremophiles</i> , 2013 , 17, 161-9	3	32
36	Microbial colonization of the salt deposits in the driest place of the Atacama Desert (Chile). <i>Origins of Life and Evolution of Biospheres</i> , 2012 , 42, 187-200	1.5	31
35	Avoidance of protein oxidation correlates with the desiccation and radiation resistance of hot and cold desert strains of the cyanobacterium <i>Chroococcidiopsis</i> . <i>Extremophiles</i> , 2017 , 21, 981-991	3	30
34	Biofilm and planktonic lifestyles differently support the resistance of the desert cyanobacterium <i>Chroococcidiopsis</i> under space and Martian simulations. <i>Origins of Life and Evolution of Biospheres</i> , 2013 , 43, 377-89	1.5	29
33	A novel staining protocol for multiparameter assessment of cell heterogeneity in <i>Phormidium</i> populations (cyanobacteria) employing fluorescent dyes. <i>PLoS ONE</i> , 2013 , 8, e55283	3.7	29
32	Evaluation of the Resistance of <i>Chroococcidiopsis</i> spp. to Sparsely and Densely Ionizing Irradiation. <i>Astrobiology</i> , 2017 , 17, 118-125	3.7	28
31	Preservation of Biomarkers from Cyanobacteria Mixed with Mars-Like Regolith Under Simulated Martian Atmosphere and UV Flux. <i>Origins of Life and Evolution of Biospheres</i> , 2016 , 46, 289-310	1.5	28
30	Comparative analysis of cyanobacteria inhabiting rocks with different light transmittance in the Mojave Desert: a Mars terrestrial analogue. <i>International Journal of Astrobiology</i> , 2014 , 13, 271-277	1.4	28
29	Cyanobacteria from Extreme Deserts to Space. <i>Advances in Microbiology</i> , 2013 , 03, 80-86	0.6	25
28	A Desert Cyanobacterium under Simulated Mars-like Conditions in Low Earth Orbit: Implications for the Habitability of Mars. <i>Astrobiology</i> , 2019 , 19, 158-169	3.7	23
27	Life Without Water: Responses of Prokaryotes to Desiccation. <i>Cell and Molecular Response To Stress</i> , 2000 , 1, 181-192		22
26	Dried Biofilms of Desert Strains of <i>Survived</i> Prolonged Exposure to Space and Mars-like Conditions in Low Earth Orbit. <i>Astrobiology</i> , 2019 , 19, 1008-1017	3.7	21
25	Genetic Characterization of Epilithic Cyanobacteria and Their Associated Bacteria. <i>Geomicrobiology Journal</i> , 2006 , 23, 293-299	2.5	20
24	The biodiversity of subaerophytic phototrophic biofilms from Maltese hypogea.. <i>Fottea</i> , 2011 , 11, 187-2016		20
23	<i>Chroococcidiopsis</i> from Desert to Mars. <i>Cellular Origin and Life in Extreme Habitats</i> , 2007 , 553-568		15
22	Anhydrobiotic rock-inhabiting cyanobacteria: Potential for astrobiology and biotechnology 2012 , 119-132		14
21	Detection of macromolecules in desert cyanobacteria mixed with a lunar mineral analogue after space simulations. <i>Origins of Life and Evolution of Biospheres</i> , 2014 , 44, 209-21	1.5	13
20	Desert cyanobacteria under space and planetary simulations: a tool for searching for life beyond Earth and supporting human space exploration. <i>International Journal of Astrobiology</i> , 2019 , 18, 483-489	1.4	13

19	Over-Expression of UV-Damage DNA Repair Genes and Ribonucleic Acid Persistence Contribute to the Resilience of Dried Biofilms of the Desert Cyanobacterium Exposed to Mars-Like UV Flux and Long-Term Desiccation. <i>Frontiers in Microbiology</i> , 2019 , 10, 2312	5.7	12
18	Plasmid stability in dried cells of the desert cyanobacterium <i>Chroococcidiopsis</i> and its potential for GFP imaging of survivors on Earth and in space. <i>Origins of Life and Evolution of Biospheres</i> , 2012 , 42, 235-45	1.5	9
17	Desert Cyanobacteria: Potential for Space and Earth Applications 2017 , 133-146		9
16	Exploiting a perchlorate-tolerant desert cyanobacterium to support bacterial growth for in situ resource utilization on Mars. <i>International Journal of Astrobiology</i> , 2021 , 20, 29-35	1.4	9
15	Synthetic Biology for Space Exploration: Promises and Societal Implications. <i>Wissenschaftsethik Und Technikfolgenbeurteilung</i> , 2016 , 73-100	0.2	8
14	Microbiome dynamics during the HI-SEAS IV mission, and implications for future crewed missions beyond Earth. <i>Microbiome</i> , 2021 , 9, 27	16.6	8
13	Biomarker Preservation and Survivability Under Extreme Dryness and Mars-Like UV Flux of a Desert Cyanobacterium Capable of Trehalose and Sucrose Accumulation. <i>Frontiers in Astronomy and Space Sciences</i> , 2020 , 7,	3.8	7
12	Loss of topological relationships in a Pleurocapsalean cyanobacterium (<i>Chroococcidiopsis</i> sp.) with partially inactivated <i>ftsZ</i> . <i>Annals of Microbiology</i> , 2009 , 59, 235-238	3.2	6
11	Simulating super earth atmospheres in the laboratory. <i>International Journal of Astrobiology</i> , 2016 , 15, 35-44	1.4	6
10	Survivability of Anhydrobiotic Cyanobacteria in Salty Ice: Implications for the Habitability of Icy Worlds. <i>Life</i> , 2019 , 9,	3	5
9	Revival of Anhydrobiotic Cyanobacterium Biofilms Exposed to Space Vacuum and Prolonged Dryness: Implications for Future Missions beyond Low Earth Orbit. <i>Astrobiology</i> , 2021 , 21, 541-550	3.7	4
8	Exposure to low Earth orbit of an extreme-tolerant cyanobacterium as a contribution to lunar astrobiology activities. <i>International Journal of Astrobiology</i> , 2020 , 19, 53-60	1.4	4
7	Optimization of molecular techniques applied to the taxonomy of epilithic <i>Leptolyngbya</i> strains. <i>Algological Studies</i> , 2005 , 117, 197-207		3
6	Carotenoid Raman Signatures Are Better Preserved in Dried Cells of the Desert Cyanobacterium than in Hydrated Counterparts after High-Dose Gamma Irradiation. <i>Life</i> , 2020 , 10,	3	2
5	To Other Planets With Upgraded Millennial Kombucha in Rhythms of Sustainability and Health Support. <i>Frontiers in Astronomy and Space Sciences</i> , 2021 , 8,	3.8	2
4	Role of DNA repair pathways in the recovery of a dried, radioresistant cyanobacterium exposed to high-LET radiation: implications for the habitability of Mars. <i>International Journal of Astrobiology</i> , 1-12	1.4	2
3	Absence of increased genomic variants in the cyanobacterium <i>Chroococcidiopsis</i> exposed to Mars-like conditions outside the space station.. <i>Scientific Reports</i> , 2022 , 12, 8437	4.9	2
2	Genome-Wide Identification and Bioinformatics Characterization of Superoxide Dismutases in the Desiccation-Tolerant Cyanobacterium sp. CCME 029. <i>Frontiers in Microbiology</i> , 2021 , 12, 660050	5.7	1

- 1 Challenging the Survival Thresholds of a Desert Cyanobacterium under Laboratory Simulated and Space Conditions **2020**, 183-195