C S Cockell

List of Publications by Year
in descending order

327 papers	14,480 citations	23500 58 h-index	30010 103 g-index
335 all docs	335 docs citations	335 times ranked	10262 citing authors

#	Article	IF	Citations
1	The Chicxulub Asteroid Impact and Mass Extinction at the Cretaceous-Paleogene Boundary. Science, 2010, 327, 1214-1218.	6.0	1,140
2	Ultraviolet radiation screening compounds. Biological Reviews, 1999, 74, 311-345.	4.7	677
3	Emergence of a Habitable Planet. Space Science Reviews, 2007, 129, 35-78.	3.7	334
4	Exoplanet Biosignatures: A Review of Remotely Detectable Signs of Life. Astrobiology, 2018, 18, 663-708.	1.5	328
5	What makes a planet habitable?. Astronomy and Astrophysics Review, 2009, 17, 181-249.	9.1	281
6	Transient liquid water and water activity at Gale crater on Mars. Nature Geoscience, 2015, 8, 357-361.	5.4	277
7	The Ultraviolet Environment of Mars: Biological Implications Past, Present, and Future. Icarus, 2000, 146, 343-359.	1.1	272
8	Habitability: A Review. Astrobiology, 2016, 16, 89-117.	1.5	246
9	Impact-generated hydrothermal systems on Earth and Mars. Icarus, 2013, 224, 347-363.	1.1	219
10	Biosignatures on Mars: What, Where, and How? Implications for the Search for Martian Life. Astrobiology, 2015, 15, 998-1029.	1.5	209
11	The limits for life under multiple extremes. Trends in Microbiology, 2013, 21, 204-212.	3.5	190
12	The formation of peak rings in large impact craters. Science, 2016, 354, 878-882.	6.0	181
13	Effects of a Simulated Martian UV Flux on the Cyanobacterium, Chroococcidiopsis sp. 029. Astrobiology, 2005, 5, 127-140.	1.5	173
14	Searching for Life on Mars: Selection of Molecular Targets for ESA's Aurora ExoMars Mission. Astrobiology, 2007, 7, 578-604.	1.5	172
15	Cyanobacterial bacteriohopanepolyol signatures from cultures and natural environmental settings. Organic Geochemistry, 2008, 39, 232-263.	0.9	167
16	Microbial Rock Inhabitants Survive Hypervelocity Impacts on Mars-Like Host Planets: First Phase of Lithopanspermia Experimentally Tested. Astrobiology, 2008, 8, 17-44.	1.5	166
17	Biological Effects of High Ultraviolet Radiation on Early Earthâ€"a Theoretical Evaluation. Journal of Theoretical Biology, 1998, 193, 717-729.	0.8	161
18	Multiplication of microbes below 0.690 water activity: implications for terrestrial and extraterrestrial life. Environmental Microbiology, 2015, 17, 257-277.	1.8	131

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19	Impactâ€induced microbial endolithic habitats. Meteoritics and Planetary Science, 2002, 37, 1287-1298.	0.7	130
20	The ultraviolet history of the terrestrial planets â€" implications for biological evolution. Planetary and Space Science, 2000, 48, 203-214.	0.9	123
21	Zones of photosynthetic potential on Mars and the early Earth. Icarus, 2004, 169, 300-310.	1.1	123
22	Survival of lichens and bacteria exposed to outer space conditions â€" Results of the Lithopanspermia experiments. Icarus, 2010, 208, 735-748.	1.1	123
23	Rapid recovery of life at ground zero of the end-Cretaceous mass extinction. Nature, 2018, 558, 288-291.	13.7	123
24	Ionic Strength Is a Barrier to the Habitability of Mars. Astrobiology, 2016, 16, 427-442.	1.5	122
25	Hypolithic microbial communities: between a rock and a hard place. Environmental Microbiology, 2012, 14, 2272-2282.	1.8	118
26	Widespread colonization by polar hypoliths. Nature, 2004, 431, 414-414.	13.7	114
27	Life on Venus. Planetary and Space Science, 1999, 47, 1487-1501.	0.9	113
28	<i>Darwin</i>â€"A Mission to Detect and Search for Life on Extrasolar Planets. Astrobiology, 2009, 9, 1-22.	1.5	112
29	Limits of Life and the Habitability of Mars: The ESA Space Experiment BIOMEX on the ISS. Astrobiology, 2019, 19, 145-157.	1.5	111
30	Exposure of phototrophs to 548 days in low Earth orbit: microbial selection pressures in outer space and on early earth. ISME Journal, 2011, 5, 1671-1682.	4.4	108
31	The History of the UV Radiation Climate of the Earthâ€"Theoretical and Space-based ObservationsÂ¶. Photochemistry and Photobiology, 2001, 73, 447.	1.3	105
32	The biology of impact craters â€" a review. Biological Reviews, 2002, 77, 279-310.	4.7	98
33	Influence on Photosynthesis of Starlight, Moonlight, Planetlight, and Light Pollution (Reflections on) Tj ETQq1 1 0.784314 rgBT /Overlo	1.5	98
34	EChO. Experimental Astronomy, 2012, 34, 311-353.	1.6	98
35	Experimental methods for studying microbial survival in extraterrestrial environments. Journal of Microbiological Methods, 2010, 80, 1-13.	0.7	95
36	Experimental evidence for the potential impact ejection of viable microorganisms from Mars and Mars-like planets. Icarus, 2007, 186, 585-588.	1.1	87

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37	Raman spectroscopic analysis of cyanobacterial gypsum halotrophs and relevance for sulfate deposits on Mars. Analyst, The, 2005, 130, 917.	1.7	84
38	Exploring microbial diversity in volcanic environments: A review of methods in DNA extraction. Journal of Microbiological Methods, 2007, 70, 1-12.	0.7	82
39	Space Station conditions are selective but do not alter microbial characteristics relevant to human health. Nature Communications, 2019, 10, 3990.	5.8	79
40	Why are some microorganisms boring?. Trends in Microbiology, 2008, 16, 101-106.	3.5	78
41	Bacteria in Weathered Basaltic Glass, Iceland. Geomicrobiology Journal, 2009, 26, 491-507.	1.0	78
42	Perchlorates on Mars enhance the bacteriocidal effects of UV light. Scientific Reports, 2017, 7, 4662.	1.6	78
43	Supporting Mars exploration: BIOMEX in Low Earth Orbit and further astrobiological studies on the Moon using Raman and PanCam technology. Planetary and Space Science, 2012, 74, 103-110.	0.9	77
44	Ultraviolet radiation and the photobiology of earth's early oceans. Origins of Life and Evolution of Biospheres, 2000, 30, 467-500.	0.8	76
45	Venturing into new realms? Microorganisms in space. FEMS Microbiology Reviews, 2016, 40, 722-737.	3.9	75
46	Geological overview and cratering model for the Haughton impact structure, Devon Island, Canadian High Arctic. Meteoritics and Planetary Science, 2005, 40, 1759-1776.	0.7	74
47	Darwinâ€"an experimental astronomy mission to search for extrasolar planets. Experimental Astronomy, 2009, 23, 435-461.	1.6	74
48	High precision astrometry mission for the detection and characterization of nearby habitable planetary systems with the Nearby Earth Astrometric Telescope (NEAT). Experimental Astronomy, 2012, 34, 385-413.	1.6	73
49	Carbon Biochemistry and the Ultraviolet Radiation Environments of F, G, and K Main Sequence Stars. Icarus, 1999, 141, 399-407.	1.1	72
50	Trajectories of Martian Habitability. Astrobiology, 2014, 14, 182-203.	1.5	72
51	Swansong biospheres: refuges for life and novel microbial biospheres on terrestrial planets near the end of their habitable lifetimes. International Journal of Astrobiology, 2013, 12, 99-112.	0.9	69
52	Probing the hydrothermal system of the Chicxulub impact crater. Science Advances, 2020, 6, eaaz3053.	4.7	69
53	Earth as a Tool for Astrobiologyâ€"A European Perspective. Space Science Reviews, 2017, 209, 43-81.	3.7	68
54	Ultraviolet radiation-induced limitation to epilithic microbial growth in arid deserts â€" Dosimetric experiments in the hyperarid core of the Atacama Desert. Journal of Photochemistry and Photobiology B: Biology, 2008, 90, 79-87.	1.7	67

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55	Space station biomining experiment demonstrates rare earth element extraction in microgravity and Mars gravity. Nature Communications, 2020, 11, 5523.	5.8	67
56	Interplanetary Transfer of Photosynthesis: An Experimental Demonstration of A Selective Dispersal Filter in Planetary Island Biogeography. Astrobiology, 2007, 7, 1-9.	1.5	66
57	Bacterial Diversity of Weathered Terrestrial Icelandic Volcanic Glasses. Microbial Ecology, 2010, 60, 740-752.	1.4	66
58	Survival of Spores of the UV-Resistant<i>Bacillus subtilis</i>Strain MW01 After Exposure to Low-Earth Orbit and Simulated Martian Conditions: Data from the Space Experiment ADAPT on EXPOSE-E. Astrobiology, 2012, 12, 498-507.	1.5	66
59	Astrobiology and the Possibility of Life on Earth and Elsewhereâ€¦. Space Science Reviews, 2017, 209, 1-42.	3.7	66
60	Deep Drilling into the Chesapeake Bay Impact Structure. Science, 2008, 320, 1740-1745.	6.0	65
61	<i>Actinobacteria</i>â€"An Ancient Phylum Active in Volcanic Rock Weathering. Geomicrobiology Journal, 2013, 30, 706-720.	1.0	65
62	Clean access, measurement, and sampling of Ellsworth Subglacial Lake: A method for exploring deep Antarctic subglacial lake environments. Reviews of Geophysics, 2012, 50, .	9.0	63
63	The Role of Meteorite Impacts in the Origin of Life. Astrobiology, 2020, 20, 1121-1149.	1.5	63
64	Identification of Morphological Biosignatures in Martian Analogue Field Specimens Using <i>In Situ</i> Planetary Instrumentation. Astrobiology, 2008, 8, 119-156.	1.5	62
65	Origin and Evolution of Life on Terrestrial Planets. Astrobiology, 2010, 10, 69-76.	1.5	62
66	Nonphotosynthetic Pigments as Potential Biosignatures. Astrobiology, 2015, 15, 341-361.	1.5	61
67	Measurements of microbial protection from ultraviolet radiation in polar terrestrial microhabitats. Polar Biology, 2003, 26, 62-69.	0.5	60
68	Isolation of Novel Extreme-Tolerant Cyanobacteria from a Rock-Dwelling Microbial Community by Using Exposure to Low Earth Orbit. Applied and Environmental Microbiology, 2010, 76, 2115-2121.	1.4	60
69	Damage Escape and Repair in Dried<i>Chroococcidiopsis</i>spp. from Hot and Cold Deserts Exposed to Simulated Space and Martian Conditions. Astrobiology, 2011, 11, 65-73.	1.5	59
70	Cryptic Photosynthesisâ€"Extrasolar Planetary Oxygen Without a Surface Biological Signature. Astrobiology, 2009, 9, 623-636.	1.5	58
71	Uninhabited habitats on Mars. Icarus, 2012, 217, 184-193.	1.1	58
72	Raman spectroscopy of endoliths from Antarctic cold desert environments. Analyst, The, 2005, 130, 156.	1.7	57

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73	Alteration textures in terrestrial volcanic glass and the associated bacterial community. Geobiology, 2009, 7, 50-65.	1.1	56
74	Experimental studies addressing the longevity of Bacillus subtilis spores â€“ The first data from a 500-year experiment. PLoS ONE, 2018, 13, e0208425.	1.1	56
75	A Cryptoendolithic Community in Volcanic Glass. Astrobiology, 2009, 9, 369-381.	1.5	55
76	Space as a Tool for Astrobiology: Review and Recommendations for Experimentations in Earth Orbit and Beyond. Space Science Reviews, 2017, 209, 83-181.	3.7	54
77	A Planetary Park system for Mars. Space Policy, 2004, 20, 291-295.	0.8	53
78	Use of cyanobacteria for in-situ resource use in space applications. Planetary and Space Science, 2010, 58, 1279-1285.	0.9	53
79	Influence of ice and snow covers on the UV exposure of terrestrial microbial communities: dosimetric studies. Journal of Photochemistry and Photobiology B: Biology, 2002, 68, 23-32.	1.7	52
80	Control of Lunar and Martian Dustâ€"Experimental Insights from Artificial and Natural Cyanobacterial and Algal Crusts in the Desert of Inner Mongolia, China. Astrobiology, 2008, 8, 75-86.	1.5	51
81	Bacterial Diversity of Terrestrial Crystalline Volcanic Rocks, Iceland. Microbial Ecology, 2011, 62, 69-79.	1.4	51
82	Enabling Martian habitability with silica aerogel via the solid-state greenhouse effect. Nature Astronomy, 2019, 3, 898-903.	4.2	51
83	Life and Light: Exotic Photosynthesis in Binary and Multiple-Star Systems. Astrobiology, 2012, 12, 115-124.	1.5	50
84	Bacterial Colonization and Weathering of Terrestrial Obsidian in Iceland. Geomicrobiology Journal, 2008, 25, 25-37.	1.0	49
85	Swansong biospheres II: the final signs of life on terrestrial planets near the end of their habitable lifetimes. International Journal of Astrobiology, 2014, 13, 229-243.	0.9	49
86	Advancing the case for microbial conservation. Oryx, 2009, 43, 520.	0.5	48
87	The Role of Synthetic Biology for<i>In Situ</i>Resource Utilization (ISRU). Astrobiology, 2012, 12, 1135-1142.	1.5	48
88	Pioneer Microbial Communities of the FimmvÃ¶rÃ°uhÃ¡ls Lava Flow, EyjafjallajÃ¶kull, Iceland. Microbial Ecology, 2014, 68, 504-518.	1.4	48
89	An Estimate of the Total DNA in the Biosphere. PLoS Biology, 2015, 13, e1002168.	2.6	48
90	The Impact Crater as a Habitat: Effects of Impact Processing of Target Materials. Astrobiology, 2003, 3, 181-191.	1.5	44

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91	Genomics: applications to Antarctic ecosystems. Polar Biology, 2005, 28, 351-365.	0.5	44
92	Testing the survival of microfossils in artificial martian sedimentary meteorites during entry into Earthâ€™s atmosphere: The STONE 6 experiment. Icarus, 2010, 207, 616-630.	1.1	44
93	The Close-Up Imager Onboard the ESA ExoMars Rover: Objectives, Description, Operations, and Science Validation Activities. Astrobiology, 2017, 17, 595-611.	1.5	44
94	Geomicrobiology beyond Earth: microbeâ€"mineral interactions in space exploration and settlement. Trends in Microbiology, 2010, 18, 308-314.	3.5	43
95	Life in the Atacama: Searching for life with rovers (science overview). Journal of Geophysical Research, 2007, 112, .	3.3	42
96	THE QUEST FOR CRADLES OF LIFE: USING THE FUNDAMENTAL METALLICITY RELATION TO HUNT FOR THE MOST HABITABLE TYPE OF GALAXY. Astrophysical Journal Letters, 2015, 810, L2.	3.0	42
97	Effects of asteroid and comet impacts on habitats for lithophytic organisms-A synthesis. Meteoritics and Planetary Science, 2005, 40, 1901-1914.	0.7	41
98	Plausible microbial metabolisms on Mars. Astronomy and Geophysics, 2013, 54, 1.13-1.16.	0.1	41
99	The BASALT Research Program: Designing and Developing Mission Elements in Support of Human Scientific Exploration of Mars. Astrobiology, 2019, 19, 245-259.	1.5	41
100	'Astrobiology' and the ethics of new science. Interdisciplinary Science Reviews, 2001, 26, 90-96.	1.0	40
101	Hypolithic Colonization of Opaque Rocks in the Arctic and Antarctic Polar Desert. Arctic, Antarctic, and Alpine Research, 2006, 38, 335-342.	0.4	40
102	Glaciovolcanic hydrothermal environments in Iceland and implications for their detection on Mars. Journal of Volcanology and Geothermal Research, 2013, 256, 61-77.	0.8	40
103	Microbial life in the nascent Chicxulub crater. Geology, 2020, 48, 328-332.	2.0	40
104	The rights of microbes. Interdisciplinary Science Reviews, 2004, 29, 141-150.	1.0	38
105	First evidence for a bipolar distribution of dominant freshwater lake bacterioplankton. Antarctic Science, 2007, 19, 245-252.	0.5	38
106	Venus, an Astrobiology Target. Astrobiology, 2021, 21, 1163-1185.	1.5	38
107	Crises and extinction in the fossil recordâ€"a role for ultraviolet radiation?. Paleobiology, 1999, 25, 212-225.	1.3	37
108	Exposure of Arctic Field Scientists to Ultraviolet Radiation Evaluated Using Personal Dosimeters. Photochemistry and Photobiology, 2001, 74, 570.	1.3	37

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109	Microarray analysis of a microbeâ€"mineral interaction. Geobiology, 2010, 8, 446-456.	1.1	37
110	The effect of rock composition on cyanobacterial weathering of crystalline basalt and rhyolite. Geobiology, 2012, 10, 434-444.	1.1	37
111	Atmospheric Habitable Zones in Y Dwarf Atmospheres. Astrophysical Journal, 2017, 836, 184.	1.6	37
112	Planetary parksâ€"formulating a wilderness policy for planetary bodies. Space Policy, 2006, 22, 256-261.	0.8	36
113	The microbeâ€"mineral environment and gypsum neogenesis in a weathered polar evaporite. Geobiology, 2010, 8, 293-308.	1.1	36
114	Evaluating galactic habitability using high-resolution cosmological simulations of galaxy formation. International Journal of Astrobiology, 2017, 16, 60-73.	0.9	36
115	Laboratory experiments on the weathering of iron meteorites and carbonaceous chondrites by ironâ€oxidizing bacteria. Meteoritics and Planetary Science, 2009, 44, 233-247.	0.7	35
116	Life in (and on) the rocks. Journal of Biosciences, 2012, 37, 3-11.	0.5	35
117	Antarctic Genomics. Comparative and Functional Genomics, 2004, 5, 230-238.	2.0	34
118	Re-evaluating the age of the Haughton impact event. Meteoritics and Planetary Science, 2005, 40, 1777-1787.	0.7	34
119	Viable cold-tolerant iron-reducing microorganisms in geographically diverse subglacial environments. Biogeosciences, 2017, 14, 1445-1455.	1.3	34
120	Shock experiments in support of the Lithopanspermia theory: The influence of host rock composition, temperature, and shock pressure on the survival rate of endolithic and epilithic microorganisms. Meteoritics and Planetary Science, 2011, 46, 701-718.	0.7	33
121	Protective pigmentation in UVB-screened Antarctic lichens studied by Fourier transform Raman spectroscopy: an extremophile bioresponse to radiation stress. Journal of Raman Spectroscopy, 2004, 35, 463-469.	1.2	32
122	Limitations to a microbial iron cycle on Mars. Planetary and Space Science, 2012, 72, 116-128.	0.9	32
123	Habitable worlds with no signs of life. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130082.	1.6	32
124	Lifeless Martian samples and their significance. Nature Astronomy, 2019, 3, 468-470.	4.2	32
125	Impact Excavation and the Search for Subsurface Life on Mars. Icarus, 2002, 155, 340-349.	1.1	31
126	Mineralogical alteration of artificial meteorites during atmospheric entry. The STONE-5 experiment. Planetary and Space Science, 2008, 56, 976-984.	0.9	31

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127	New Priorities in the Robotic Exploration of Mars: The Case for <i>In Situ</i> Search for Extant Life. Astrobiology, 2010, 10, 705-710.	1.5	31
128	The EChO science case. Experimental Astronomy, 2015, 40, 329-391.	1.6	31
129	Impact shocked rocks as protective habitats on an anoxic early Earth. International Journal of Astrobiology, 2015, 14, 115-122.	0.9	31
130	The Development of an Effective Bacterial Single-Cell Lysis Method Suitable for Whole Genome Amplification in Microfluidic Platforms. Micromachines, 2018, 9, 367.	1.4	31
131	Metallomics in deep time and the influence of ocean chemistry on the metabolic landscapes of Earthâ€™s earliest ecosystems. Scientific Reports, 2020, 10, 4965.	1.6	31
132	"Ultraviolet spring" and the ecological consequences of catastrophic impacts. Ecology Letters, 2000, 3, 77-81.	3.0	30
133	Impact Disruption and Recovery of the Deep Subsurface Biosphere. Astrobiology, 2012, 12, 231-246.	1.5	30
134	Land coverage influences the bacterial community composition in the critical zone of a sub-Arctic basaltic environment. FEMS Microbiology Ecology, 2013, 86, 381-393.	1.3	30
135	Surface flux patterns on planets in circumbinary systems and potential for photosynthesis. International Journal of Astrobiology, 2015, 14, 465-478.	0.9	30
136	No Effect of Microgravity and Simulated Mars Gravity on Final Bacterial Cell Concentrations on the International Space Station: Applications to Space Bioproduction. Frontiers in Microbiology, 2020, 11, 579156.	1.5	29
137	Planetary protectionâ€"A microbial ethics approach. Space Policy, 2005, 21, 287-292.	0.8	28
138	Molecular Characterization and Geological Microenvironment of a Microbial Community Inhabiting Weathered Receding Shale Cliffs. Microbial Ecology, 2011, 61, 166-181.	1.4	28
139	Polar endoliths â€" an anti-correlation of climatic extremes and microbial biodiversity. International Journal of Astrobiology, 2002, 1, 305-310.	0.9	27
140	Description of Tessaracoccus profundi sp.nov., a deep-subsurface actinobacterium isolated from a Chesapeake impact crater drill core (940Âm depth). Antonie Van Leeuwenhoek, 2009, 96, 515-526.	0.7	27
141	Chesapeake Bay impact structure drilled. Eos, 2006, 87, 349.	0.1	26
142	An Ionic Limit to Life in the Deep Subsurface. Frontiers in Microbiology, 2019, 10, 426.	1.5	26
143	Visualizing the invisible: class excursions to ignite childrenâ€™s enthusiasm for microbes. Microbial Biotechnology, 2020, 13, 844-887.	2.0	26
144	The smallest space miners: principles of space biomining. Extremophiles, 2022, 26, 7.	0.9	26

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145	Ultraviolet radiation, evolution and the Ï€-electron system. Biological Journal of the Linnean Society, 1998, 63, 449-457.	0.7	25
146	In Search of Future Earths: Assessing the Possibility of Finding Earth Analogues in the Later Stages of Their Habitable Lifetimes. Astrobiology, 2015, 15, 400-411.	1.5	25
147	Lack of correlation of desiccation and radiation tolerance in microorganisms from diverse extreme environments tested under anoxic conditions. FEMS Microbiology Letters, 2018, 365, .	0.7	25
148	Basaltic Terrains in Idaho and Hawaiâ€˜i as Planetary Analogs for Mars Geology and Astrobiology. Astrobiology, 2019, 19, 260-283.	1.5	25
149	Explosive interaction of impact melt and seawater following the Chicxulub impact event. Geology, 2020, 48, 108-112.	2.0	25
150	Reduction of the Temperature Sensitivity of Halomonas hydrothermalis by Iron Starvation Combined with Microaerobic Conditions. Applied and Environmental Microbiology, 2015, 81, 2156-2162.	1.4	24
151	ORIGIN: a novel and compact Laser Desorption â€" Mass Spectrometry system for sensitive in situ detection of amino acids on extraterrestrial surfaces. Scientific Reports, 2020, 10, 9641.	1.6	24
152	Astrobiological instrumentation for Mars â€" the only way is down. International Journal of Astrobiology, 2002, 1, 365-380.	0.9	23
153	Radiative habitable zones in martian polar environments. Icarus, 2005, 175, 360-371.	1.1	23
154	Vacant habitats in the Universe. Trends in Ecology and Evolution, 2011, 26, 73-80.	4.2	23
155	BioRock: new experiments and hardware to investigate microbeâ€"mineral interactions in space. International Journal of Astrobiology, 2018, 17, 303-313.	0.9	22
156	Solar UV irradiation conditions on the surface of Mars. Photochemistry and Photobiology, 2003, 77, 34-40.	1.3	22
157	Raman spectroscopy of senescing snow algae: pigmentation changes in an Antarctic cold desert extremophile. International Journal of Astrobiology, 2004, 3, 125-129.	0.9	21
158	Following the Kinetics: Iron-Oxidizing Microbial Mats in Cold Icelandic Volcanic Habitats and Their Rock-Associated Carbonaceous Signature. Astrobiology, 2011, 11, 679-694.	1.5	21
159	Are thermophilic microorganisms active in cold environments?. International Journal of Astrobiology, 2015, 14, 457-463.	0.9	21
160	PELS (Planetary Environmental Liquid Simulator): A New Type of Simulation Facility to Study Extraterrestrial Aqueous Environments. Astrobiology, 2015, 15, 111-118.	1.5	21
161	Anaerobic microorganisms in astrobiological analogue environments: from field site to culture collection. International Journal of Astrobiology, 2018, 17, 314-328.	0.9	21
162	Growth, Viability, and Death of Planktonic and Biofilm<i>Sphingomonas desiccabilis</i>in Simulated Martian Brines. Astrobiology, 2019, 19, 87-98.	1.5	21

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163	Molecular Characterization of Prokaryotic Communities Associated with Lonar Crater Basalts. Geomicrobiology Journal, 2014, 31, 519-528.	1.0	20
164	Building a Geochemical View of Microbial Salt Tolerance: Halophilic Adaptation of Marinococcus in a Natural Magnesium Sulfate Brine. Frontiers in Microbiology, 2018, 9, 739.	1.5	20
165	Microbially-Enhanced Vanadium Mining and Bioremediation Under Micro- and Mars Gravity on the International Space Station. Frontiers in Microbiology, 2021, 12, 641387.	1.5	20
166	Heterotrophic microbial colonization of the interior of impact-shocked rocks from Haughton impact structure, Devon Island, Nunavut, Canadian High Arctic. International Journal of Astrobiology, 2002, 1, 311-323.	0.9	19
167	Survival of <i>Deinococcus radiodurans</i> Against Laboratory-Simulated Solar Wind Charged Particles. Astrobiology, 2011, 11, 875-882.	1.5	19
168	Preliminary Analysis of Life within a Former Subglacial Lake Sediment in Antarctica. Diversity, 2013, 5, 680-702.	0.7	19
169	Cyanobacteria isolated from the high-intertidal zone: a model for studying the physiological prerequisites for survival in low Earth orbit. International Journal of Astrobiology, 2013, 12, 292-303.	0.9	19
170	Planetary science and exploration in the deep subsurface: results from the MINAR Program, Boulby Mine, UK. International Journal of Astrobiology, 2017, 16, 114-129.	0.9	19
171	The Impact of Space Flight on Survival and Interaction of Cupriavidus metallidurans CH34 with Basalt, a Volcanic Moon Analog Rock. Frontiers in Microbiology, 2017, 8, 671.	1.5	19
172	Detectability of biosignatures in a low-biomass simulation of martian sediments. Scientific Reports, 2019, 9, 9706.	1.6	19
173	A Low-Diversity Microbiota Inhabits Extreme Terrestrial Basaltic Terrains and Their Fumaroles: Implications for the Exploration of Mars. Astrobiology, 2019, 19, 284-299.	1.5	19
174	Microbiology and Vegetation of Micro-oases and Polar Desert, Haughton Impact Crater, Devon Island, Nunavut, Canada. Arctic, Antarctic, and Alpine Research, 2001, 33, 306-318.	0.4	18
175	Biological UV dosimetry using the DLR-biofilm. Photochemical and Photobiological Sciences, 2004, 3, 781.	1.6	18
176	Astrobiologyâ€"What Can We Do on the Moon?. Earth, Moon and Planets, 2010, 107, 3-10.	0.3	18
177	Synthetic geomicrobiology: engineering microbeâ€"mineral interactions for space exploration and settlement. International Journal of Astrobiology, 2011, 10, 315-324.	0.9	18
178	Rock geochemistry induces stress and starvation responses in the bacterial proteome. Environmental Microbiology, 2016, 18, 1110-1121.	1.8	18
179	Polar Winter: A Biological Model for Impact Events and Related Dark/Cold Climatic Changes. Climatic Change, 1999, 41, 151-173.	1.7	17
180	Photobiological uncertainties in the Archaean and post-Archaean world. International Journal of Astrobiology, 2002, 1, 31-38.	0.9	17

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181	Experiments on Mixotrophic Protists and Catastrophic Darkness. Astrobiology, 2009, 9, 563-571.	1.5	17
182	Mineralization and Preservation of an extremotolerant Bacterium Isolated from an Early Mars Analog Environment. Scientific Reports, 2017, 7, 8775.	1.6	17
183	Subsurface scientific exploration of extraterrestrial environments (MINAR 5): analogue science, technology and education in the Boulby Mine, UK. International Journal of Astrobiology, 2019, 18, 157-182.	0.9	17
184	When is Life a Viable Hypothesis? The Case of Venusian Phosphine. Astrobiology, 2021, 21, 261-264.	1.5	17
185	Ethics and extraterrestrial life. Studies in Space Policy, 2011, , 80-101.	0.3	17
186	The responses of an anaerobic microorganism, Yersinia intermedia MASE-LG-1 to individual and combined simulated Martian stresses. PLoS ONE, 2017, 12, e0185178.	1.1	17
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