C S Cockell

List of Publications by Year
in descending order

327 papers	14,480 citations	23567 58 h-index	30087 103 g-index
335 all docs	335 docs citations	335 times ranked	10262 citing authors

#	Article	IF	Citations
1	Bridging the gap between microbial limits and extremes in space: space microbial biotechnology in the next 15 years. Microbial Biotechnology, 2022, 15, 29-41.	4.2	7
2	Habitability Is Binary, But It Is Used by Astrobiologists to Encompass Continuous Ecological Questions. Astrobiology, 2022, 22, 7-13.	3.0	3
3	Mars: new insights and unresolved questions â€“ Corrigendum. International Journal of Astrobiology, 2022, 21, 46-46.	1.6	7
4	The smallest space miners: principles of space biomining. Extremophiles, 2022, 26, 7.	2.3	26
5	Meteorites as Food Source on Early Earth: Growth, Selection, and Inhibition of a Microbial Community on a Carbonaceous Chondrite. Astrobiology, 2022, 22, 495-508.	3.0	2
6	Planning Implications Related to Sterilization-Sensitive Science Investigations Associated with Mars Sample Return (MSR). Astrobiology, 2022, 22, S-112-S-164.	3.0	7
7	Final Report of the Mars Sample Return Science Planning Group 2 (MSPG2). Astrobiology, 2022, 22, S-5-S-26.	3.0	15
8	Rationale and Proposed Design for a Mars Sample Return (MSR) Science Program. Astrobiology, 2022, 22, S-27-S-56.	3.0	14
9	The Scientific Importance of Returning Airfall Dust as a Part of Mars Sample Return (MSR). Astrobiology, 2022, 22, S-176-S-185.	3.0	5
10	Science and Curation Considerations for the Design of a Mars Sample Return (MSR) Sample Receiving Facility (SRF). Astrobiology, 2022, 22, S-217-S-237.	3.0	7
11	Preliminary Planning for Mars Sample Return (MSR) Curation Activities in a Sample Receiving Facility (SRF). Astrobiology, 2022, 22, S-57-S-80.	3.0	16
12	Whole genome sequencing of cyanobacterium Nostoc sp. CCCryo 231-06 using microfluidic single cell technology. IScience, 2022, 25, 104291.	4.1	6
13	Structural Responses of Nucleic Acids to Mars-Relevant Salts at Deep Subsurface Conditions. Life, 2022, 12, 677.	2.4	3
14	Meteorites: beneficial or toxic for life on Early Earth? Growth of an anaerobic microbial community on a carbonaceous chondrite. Access Microbiology, 2022, 4, .	0.5	1
15	Development of a compact water activity sensor system for planetary exploration. Planetary and Space Science, 2021, 195, 105132.	1.7	3
16	When is Life a Viable Hypothesis? The Case of Venusian Phosphine. Astrobiology, 2021, 21, 261-264.	3.0	17
17	Subsurface robotic exploration for geomorphology, astrobiology and mining during MINAR6 campaign, Boulby Mine, UK: part II (Results and Discussion). International Journal of Astrobiology, 2021, 20, 93-108.	1.6	0
18	Structural responses of model biomembranes to Mars-relevant salts. Physical Chemistry Chemical Physics, 2021, 23, 14212-14223.	2.8	6

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19	Taxonomic and functional analyses of intact microbial communities thriving in extreme, astrobiology-relevant, anoxic sites. Microbiome, 2021, 9, 50.	11.1	14
20	Habitability Models for Planetary Sciences. , 2021, 53, .		3
21	Microbially-Enhanced Vanadium Mining and Bioremediation Under Micro- and Mars Gravity on the International Space Station. Frontiers in Microbiology, 2021, 12, 641387.	3.5	20
22	Perchlorate Salts Exert a Dominant, Deleterious Effect on the Structure, Stability, and Activity of Î±-Chymotrypsin. Astrobiology, 2021, 21, 405-412.	3.0	6
23	Minimum Units of Habitability and Their Abundance in the Universe. Astrobiology, 2021, 21, 481-489.	3.0	6
24	A meta-analysis of the activity, stability, and mutational characteristics of temperature-adapted enzymes. Bioscience Reports, 2021, 41, .	2.4	3
25	The Biological Study of Lifeless Worlds and Environments. Astrobiology, 2021, 21, 490-504.	3.0	5
26	Venus, an Astrobiology Target. Astrobiology, 2021, 21, 1163-1185.	3.0	38
27	Shaping of the Present-Day Deep Biosphere at Chicxulub by the Impact Catastrophe That Ended the Cretaceous. Frontiers in Microbiology, 2021, 12, 668240.	3.5	8
28	The Effects of Temperature and Pressure on Protein-Ligand Binding in the Presence of Mars-Relevant Salts. Biology, 2021, 10, 687.	2.8	10
29	Perchlorate salts confer psychrophilic characteristics in Î±-chymotrypsin. Scientific Reports, 2021, 11, 16523.	3.3	5
30	A Proposed Geobiology-Driven Nomenclature for Astrobiological<i>In Situ</i>Observations and Sample Analyses. Astrobiology, 2021, 21, 954-967.	3.0	6
31	Planning the Human Future Beyond Earth with the Prison Population: The <i>Life Beyond</i> Project. Astrobiology, 2021, 21, 1438-1449.	3.0	1
32	Biologically Available Chemical Energy in the Temperate but Uninhabitable Venusian Cloud Layer: What Do We Want to Know?. Astrobiology, 2021, 21, 1224-1236.	3.0	11
33	Are microorganisms everywhere they can be?. Environmental Microbiology, 2021, 23, 6355-6363.	3.8	4
34	Instantaneous Habitable Windows in the Parameter Space of Enceladus' Ocean. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006951.	3.6	10
35	Ions in the Deep Subsurface of Earth, Mars, and Icy Moons: Their Effects in Combination with Temperature and Pressure on tRNAâ€“Ligand Binding. International Journal of Molecular Sciences, 2021, 22, 10861.	4.1	3
36	Time-Sensitive Aspects of Mars Sample Return (MSR) Science. Astrobiology, 2021, , .	3.0	10

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37	Orbiting Sample Tiger Team Recommendation on Orbiting Sample Cleanliness. Astrobiology, 2021, , .	3.0	1
38	Subsurface robotic exploration for geomorphology, astrobiology and mining during MINAR6 campaign, Boulby Mine, UK: part I (Rover development). International Journal of Astrobiology, 2020, 19, 110-125.	1.6	4
39	Casamino acids slow motility and stimulate surface growth in an extreme oligotroph. Environmental Microbiology Reports, 2020, 12, 63-69.	2.4	0
40	Explosive interaction of impact melt and seawater following the Chicxulub impact event. Geology, 2020, 48, 108-112.	4.4	25
41	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.	3.5	29
42	The Detection of Elemental Signatures of Microbes in Martian Mudstone Analogs Using High Spatial Resolution Laser Ablation Ionization Mass Spectrometry. Astrobiology, 2020, 20, 1224-1235.	3.0	15
43	The Habitat of the Nascent Chicxulub Crater. AGU Advances, 2020, 1, e2020AV000208.	5.4	12
44	A Systematic Study of the Limits of Life in Mixed Ion Solutions: Physicochemical Parameters Do Not Predict Habitability. Frontiers in Microbiology, 2020, 11, 1478.	3.5	10
45	A bioenergetic model to predict habitability, biomass and biosignatures in astrobiology and extreme conditions. Journal of the Royal Society Interface, 2020, 17, 20200588.	3.4	7
46	High pressures increase Î±-chymotrypsin enzyme activity under perchlorate stress. Communications Biology, 2020, 3, 550.	4.4	14
47	The Role of Meteorite Impacts in the Origin of Life. Astrobiology, 2020, 20, 1121-1149.	3.0	63
48	Space station biomining experiment demonstrates rare earth element extraction in microgravity and Mars gravity. Nature Communications, 2020, 11, 5523.	12.8	67
49	Astronomy + biology. Astronomy and Geophysics, 2020, 61, 3.28-3.32.	0.2	2
50	Visualizing the invisible: class excursions to ignite childrenâ€™s enthusiasm for microbes. Microbial Biotechnology, 2020, 13, 844-887.	4.2	26
51	Probing the hydrothermal system of the Chicxulub impact crater. Science Advances, 2020, 6, eaaz3053.	10.3	69
52	Metallomics in deep time and the influence of ocean chemistry on the metabolic landscapes of Earthâ€™s earliest ecosystems. Scientific Reports, 2020, 10, 4965.	3.3	31
53	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.	3.3	24
54	Persistence of Habitable, but Uninhabited, Aqueous Solutions and the Application to Extraterrestrial Environments. Astrobiology, 2020, 20, 617-627.	3.0	3

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55	Microbial life in the nascent Chicxulub crater. Geology, 2020, 48, 328-332.	4.4	40
56	0.25 Ga Salt Deposits Preserve Signatures of Habitable Conditions and Ancient Lipids. Astrobiology, 2020, 20, 864-877.	3.0	7
57	Impact of Simulated Martian Conditions on (Facultatively) Anaerobic Bacterial Strains from Different Mars Analogue Sites. Current Issues in Molecular Biology, 2020, 38, 103-122.	2.4	12
58	Growth of Non-Halophilic Bacteria in the Sodiumâ€“Magnesiumâ€“Sulfateâ€“Chloride Ion System: Unravelling the Complexities of Ion Interactions in Terrestrial and Extraterrestrial Aqueous Environments. Astrobiology, 2020, 20, 944-955.	3.0	3
59	Microbial Life in Impact Craters. Current Issues in Molecular Biology, 2020, 38, 75-102.	2.4	1
60	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.	1.6	17
61	Aggregated Cell Masses Provide Protection against Space Extremes and a Microhabitat for Hitchhiking Co-Inhabitants. Astrobiology, 2019, 19, 995-1007.	3.0	7
62	Enabling Martian habitability with silica aerogel via the solid-state greenhouse effect. Nature Astronomy, 2019, 3, 898-903.	10.1	51
63	Detectability of biosignatures in a low-biomass simulation of martian sediments. Scientific Reports, 2019, 9, 9706.	3.3	19
64	Sample Collection and Return from Mars: Optimising Sample Collection Based on the Microbial Ecology of Terrestrial Volcanic Environments. Space Science Reviews, 2019, 215, 1.	8.1	6
65	Freedom Engineering â€“ Using Engineering to Mitigate Tyranny in Space. Space Policy, 2019, 49, 101328.	1.5	2
66	Space Station conditions are selective but do not alter microbial characteristics relevant to human health. Nature Communications, 2019, 10, 3990.	12.8	79
67	Microbial Markers Profile in Anaerobic Mars Analogue Environments Using the LDChip (Life Detector) Tj ETQq1 1 0.784314 rgBT /Overlo 7, 365.	3.6	16
68	Habitability is a binary property. Nature Astronomy, 2019, 3, 956-957.	10.1	11
69	Biogeography, Ecology, and Evolution of Deep Life. , 2019, , 524-555.		6
70	Effects of rapid depressurisation on the structural integrity of common foodstuffs. Acta Astronautica, 2019, 160, 606-614.	3.2	5
71	Aeolian abrasion of rocks as a mechanism to produce methane in the Martian atmosphere. Scientific Reports, 2019, 9, 8229.	3.3	1
72	pH Influences the Distribution of Microbial Rock-Weathering Phenotypes in Weathered Shale Environments. Geomicrobiology Journal, 2019, 36, 752-763.	2.0	5

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73	Lifeless Martian samples and their significance. Nature Astronomy, 2019, 3, 468-470.	10.1	32
74	The BASALT Research Program: Designing and Developing Mission Elements in Support of Human Scientific Exploration of Mars. Astrobiology, 2019, 19, 245-259.	3.0	41
75	A Low-Diversity Microbiota Inhabits Extreme Terrestrial Basaltic Terrains and Their Fumaroles: Implications for the Exploration of Mars. Astrobiology, 2019, 19, 284-299.	3.0	19
76	Tactical Scientific Decision-Making during Crewed Astrobiology Mars Missions. Astrobiology, 2019, 19, 369-386.	3.0	16
77	Developing Intra-EVA Science Support Team Practices for a Human Mission to Mars. Astrobiology, 2019, 19, 387-400.	3.0	15
78	Strategic Planning Insights for Future Science-Driven Extravehicular Activity on Mars. Astrobiology, 2019, 19, 347-368.	3.0	16
79	Evidence For <i>In Vitro</i> and <i>In Situ</i> Pyrite Weathering By Microbial Communities Inhabiting Weathered Shale. Geomicrobiology Journal, 2019, 36, 600-611.	2.0	3
80	An Ionic Limit to Life in the Deep Subsurface. Frontiers in Microbiology, 2019, 10, 426.	3.5	26
81	Limits of Life and the Habitability of Mars: The ESA Space Experiment BIOMEX on the ISS. Astrobiology, 2019, 19, 145-157.	3.0	111
82	Growth, Viability, and Death of Planktonic and Biofilm<i>Sphingomonas desiccabilis</i>in Simulated Martian Brines. Astrobiology, 2019, 19, 87-98.	3.0	21
83	The organic stratigraphy of Ontong Java Plateau Tuff correlated with the depthâ€related presence and absence of putative microbial alteration structures. Geobiology, 2019, 17, 281-293.	2.4	5
84	Basaltic Terrains in Idaho and Hawaiâ€˜i as Planetary Analogs for Mars Geology and Astrobiology. Astrobiology, 2019, 19, 260-283.	3.0	25
85	Lack of correlation of desiccation and radiation tolerance in microorganisms from diverse extreme environments tested under anoxic conditions. FEMS Microbiology Letters, 2018, 365, .	1.8	25
86	Yâ€Mars: An Astrobiological Analogue of Martian Mudstone. Earth and Space Science, 2018, 5, 163-174.	2.6	14
87	The UK Centre for Astrobiology: A Virtual Astrobiology Centre. Accomplishments and Lessons Learned, 2011â€“2016. Astrobiology, 2018, 18, 224-243.	3.0	5
88	Exoplanet Biosignatures: A Review of Remotely Detectable Signs of Life. Astrobiology, 2018, 18, 663-708.	3.0	328
89	BioRock: new experiments and hardware to investigate microbeâ€“mineral interactions in space. International Journal of Astrobiology, 2018, 17, 303-313.	1.6	22
90	Rapid colonization of artificial endolithic uninhabited habitats. International Journal of Astrobiology, 2018, 17, 386-401.	1.6	7

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91	Anaerobic microorganisms in astrobiological analogue environments: from field site to culture collection. International Journal of Astrobiology, 2018, 17, 314-328.	1.6	21
92	Life Beyond: planning for Mars in prisons. Astronomy and Geophysics, 2018, 59, 4.32-4.35.	0.2	2
93	Experimental studies addressing the longevity of Bacillus subtilis spores â€" The first data from a 500-year experiment. PLoS ONE, 2018, 13, e0208425.	2.5	56
94	Using exoplanets to test the universality of biology. Nature Astronomy, 2018, 2, 758-759.	10.1	2
95	Glaciovolcanism on Earth and Mars: products, processes and palaeoenvironmental significance J.L. Smellie & B.R. Edwards Cambridge University Press, Cambridge. 2016. ISBN-13: 978-1107037397. hbk, 490 pp. Â£112. Antarctic Science, 2018, 30, 329-329.	0.9	0
96	The Development of an Effective Bacterial Single-Cell Lysis Method Suitable for Whole Genome Amplification in Microfluidic Platforms. Micromachines, 2018, 9, 367.	2.9	31
97	Rapid recovery of life at ground zero of the end-Cretaceous mass extinction. Nature, 2018, 558, 288-291.	27.8	123
98	Biogeochemical probing of microbial communities in a basaltâ€hosted hot spring at KverkfjÃ¶ll volcano, Iceland. Geobiology, 2018, 16, 507-521.	2.4	15
99	Beyond Chloride Brines: Variable Metabolomic Responses in the Anaerobic Organism Yersinia intermedia MASE-LG-1 to NaCl and MgSO4 at Identical Water Activity. Frontiers in Microbiology, 2018, 9, 335.	3.5	7
100	Building a Geochemical View of Microbial Salt Tolerance: Halophilic Adaptation of Marinococcus in a Natural Magnesium Sulfate Brine. Frontiers in Microbiology, 2018, 9, 739.	3.5	20
101	Astrobiology and the Possibility of Life on Earth and Elsewhereâ€¦. Space Science Reviews, 2017, 209, 1-42.	8.1	66
102	Evaluating galactic habitability using high-resolution cosmological simulations of galaxy formation. International Journal of Astrobiology, 2017, 16, 60-73.	1.6	36
103	Astrobiology as a framework for investigating antibiotic susceptibility: a study of Halomonas hydrothermalis. Journal of the Royal Society Interface, 2017, 14, 20160942.	3.4	4
104	Liquid Water Restricts Habitability in Extreme Deserts. Astrobiology, 2017, 17, 309-318.	3.0	8
105	The Janus face of iron on anoxic worlds: iron oxides are both protective and destructive to life on the early Earth and present-day Mars. FEMS Microbiology Ecology, 2017, 93, .	2.7	3
106	Planetary science and exploration in the deep subsurface: results from the MINAR Program, Boulby Mine, UK. International Journal of Astrobiology, 2017, 16, 114-129.	1.6	19
107	Mineralization and Preservation of an extremotolerant Bacterium Isolated from an Early Mars Analog Environment. Scientific Reports, 2017, 7, 8775.	3.3	17
108	Decontamination of geological samples by gas cluster ion beam etching or ultra violet/ozone. Chemical Geology, 2017, 466, 256-262.	3.3	6

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109	The Close-Up Imager Onboard the ESA ExoMars Rover: Objectives, Description, Operations, and Science Validation Activities. Astrobiology, 2017, 17, 595-611.	3.0	44
110	Earth as a Tool for Astrobiologyâ€"A European Perspective. Space Science Reviews, 2017, 209, 43-81.	8.1	68
111	Perchlorates on Mars enhance the bacteriocidal effects of UV light. Scientific Reports, 2017, 7, 4662.	3.3	78
112	Space as a Tool for Astrobiology: Review and Recommendations for Experimentations in Earth Orbit and Beyond. Space Science Reviews, 2017, 209, 83-181.	8.1	54
113	Viable cold-tolerant iron-reducing microorganisms in geographically diverse subglacial environments. Biogeosciences, 2017, 14, 1445-1455.	3.3	34
114	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.	3.5	19
115	The responses of an anaerobic microorganism, Yersinia intermedia MASE-LG-1 to individual and combined simulated Martian stresses. PLoS ONE, 2017, 12, e0185178.	2.5	17
116	Atmospheric Habitable Zones in Y Dwarf Atmospheres. Astrophysical Journal, 2017, 836, 184.	4.5	37
117	Rock geochemistry induces stress and starvation responses in the bacterial proteome. Environmental Microbiology, 2016, 18, 1110-1121.	3.8	18
118	Ionic Strength Is a Barrier to the Habitability of Mars. Astrobiology, 2016, 16, 427-442.	3.0	122
119	Salinity Influences the Response of<i>Halomonas hydrothermalis</i>to Artificial Fossilization by Evaporative Silicification. Geomicrobiology Journal, 2016, 33, 377-386.	2.0	4
120	The formation of peak rings in large impact craters. Science, 2016, 354, 878-882.	12.6	181
121	Microbial Diversity of Impact-Generated Habitats. Astrobiology, 2016, 16, 775-786.	3.0	7
122	The similarity of life across the universe. Molecular Biology of the Cell, 2016, 27, 1553-1555.	2.1	8
123	Venturing into new realms? Microorganisms in space. FEMS Microbiology Reviews, 2016, 40, 722-737.	8.6	75
124	Habitability: A Review. Astrobiology, 2016, 16, 89-117.	3.0	246
125	An ESA roadmap for geobiology in space exploration. Acta Astronautica, 2016, 118, 286-295.	3.2	12
126	Mesophilic Mineral-Weathering Bacteria Inhabit the Critical-Zone of a Perennially Cold Basaltic Environment. Geomicrobiology Journal, 2016, 33, 52-62.	2.0	3

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127	Biosignatures for Astrobiology. Origins of Life and Evolution of Biospheres, 2016, 46, 105-106.	1.9	3
128	Aerobically respiring prokaryotic strains exhibit a broader temperatureâ€“pHâ€“salinity space for cell division than anaerobically respiring and fermentative strains. Journal of the Royal Society Interface, 2015, 12, 20150658.	3.4	12
129	Surface flux patterns on planets in circumbinary systems and potential for photosynthesis. International Journal of Astrobiology, 2015, 14, 465-478.	1.6	30
130	Are thermophilic microorganisms active in cold environments?. International Journal of Astrobiology, 2015, 14, 457-463.	1.6	21
131	The Interlayer Regions of Sheet Silicates as a Favorable Habitat for Endolithic Microorganisms. Geomicrobiology Journal, 2015, 32, 530-537.	2.0	3
132	Martin Brasier (1947â€“2014): astrobiologist. International Journal of Astrobiology, 2015, 14, 527-531.	1.6	0
133	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.	8.3	42
134	Geological repositories: scientific priorities and potential high-technology transfer from the space and physics sectors. Mineralogical Magazine, 2015, 79, 1651-1664.	1.4	3
135	The EChO science case. Experimental Astronomy, 2015, 40, 329-391.	3.7	31
136	Fourier Transform Infrared Spectral Detection of Life in Polar Subsurface Environments and its Application to Mars Exploration. Applied Spectroscopy, 2015, 69, 1059-1065.	2.2	11
137	PELS (Planetary Environmental Liquid Simulator): A New Type of Simulation Facility to Study Extraterrestrial Aqueous Environments. Astrobiology, 2015, 15, 111-118.	3.0	21
138	Reduction of the Temperature Sensitivity of Halomonas hydrothermalis by Iron Starvation Combined with Microaerobic Conditions. Applied and Environmental Microbiology, 2015, 81, 2156-2162.	3.1	24
139	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.	3.0	25
140	Transient liquid water and water activity at Gale crater on Mars. Nature Geoscience, 2015, 8, 357-361.	12.9	277
141	Nonphotosynthetic Pigments as Potential Biosignatures. Astrobiology, 2015, 15, 341-361.	3.0	61
142	Nonproteinogenic D-Amino Acids at Millimolar Concentrations Are a Toxin for Anaerobic Microorganisms Relevant to Early Earth and Other Anoxic Planets. Astrobiology, 2015, 15, 238-246.	3.0	6
143	Biosignatures on Mars: What, Where, and How? Implications for the Search for Martian Life. Astrobiology, 2015, 15, 998-1029.	3.0	209
144	Multiplication of microbes below 0.690 water activity: implications for terrestrial and extraterrestrial life. Environmental Microbiology, 2015, 17, 257-277.	3.8	131

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145	Impact shocked rocks as protective habitats on an anoxic early Earth. International Journal of Astrobiology, 2015, 14, 115-122.	1.6	31
146	An Estimate of the Total DNA in the Biosphere. PLoS Biology, 2015, 13, e1002168.	5.6	48
147	Types of habitat in the Universe. International Journal of Astrobiology, 2014, 13, 158-164.	1.6	15
148	11. The subsurface habitability of terrestrial rocky planets: Mars. , 2014, , 225-260.		13
149	Molecular Characterization of Prokaryotic Communities Associated with Lonar Crater Basalts. Geomicrobiology Journal, 2014, 31, 519-528.	2.0	20
150	Epifluorescence, SEM, TEM and nanoSIMS image analysis of the cold phenotype of<i>Clostridium psychrophilum</i>at subzero temperatures. FEMS Microbiology Ecology, 2014, 90, 869-882.	2.7	14
151	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.	1.6	49
152	Habitable worlds with no signs of life. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130082.	3.4	32
153	Trajectories of Martian Habitability. Astrobiology, 2014, 14, 182-203.	3.0	72
154	Where Do We Go from Here? <i>Astrobiology</i> Editorial Board Opinions. Astrobiology, 2014, 14, 629-644.	3.0	1
155	Pioneer Microbial Communities of the FimmvÃ¶rÃ°uhÃ¡ls Lava Flow, EyjafjallajÃ¶kull, Iceland. Microbial Ecology, 2014, 68, 504-518.	2.8	48
156	Impact-Generated Endolithic Habitat Within Crystalline Rocks of the Haughton Impact Structure, Devon Island, Canada. Astrobiology, 2014, 14, 522-533.	3.0	13
157	Impact-generated hydrothermal systems on Earth and Mars. Icarus, 2013, 224, 347-363.	2.5	219
158	Glaciovolcanic hydrothermal environments in Iceland and implications for their detection on Mars. Journal of Volcanology and Geothermal Research, 2013, 256, 61-77.	2.1	40
159	The limits for life under multiple extremes. Trends in Microbiology, 2013, 21, 204-212.	7.7	190
160	Swansong Biospheres: The biosignatures of inhabited earth-like planets nearing the end of their habitable lifetimes. Proceedings of the International Astronomical Union, 2013, 8, 378-379.	0.0	1
161	Plausible microbial metabolisms on Mars. Astronomy and Geophysics, 2013, 54, 1.13-1.16.	0.2	41
162	Preliminary Analysis of Life within a Former Subglacial Lake Sediment in Antarctica. Diversity, 2013, 5, 680-702.	1.7	19

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163	Boulby International Subsurface Astrobiology Laboratory. Astronomy and Geophysics, 2013, 54, 2.25-2.27.	0.2	11
164	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.	1.6	69
165	Land coverage influences the bacterial community composition in the critical zone of a sub-Arctic basaltic environment. FEMS Microbiology Ecology, 2013, 86, 381-393.	2.7	30
166	<i>Actinobacteria</i>â€"An Ancient Phylum Active in Volcanic Rock Weathering. Geomicrobiology Journal, 2013, 30, 706-720.	2.0	65
167	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.	1.6	19
168	The Role of Synthetic Biology for<i>In Situ</i>Resource Utilization (ISRU). Astrobiology, 2012, 12, 1135-1142.	3.0	48
169	Diverse microbial species survive high ammonia concentrations. International Journal of Astrobiology, 2012, 11, 125-131.	1.6	8
170	Life and Light: Exotic Photosynthesis in Binary and Multiple-Star Systems. Astrobiology, 2012, 12, 115-124.	3.0	50
171	Limitations to a microbial iron cycle on Mars. Planetary and Space Science, 2012, 72, 116-128.	1.7	32
172	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.	1.7	77
173	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.	3.7	73
174	EChO. Experimental Astronomy, 2012, 34, 311-353.	3.7	98
175	The effect of rock composition on cyanobacterial weathering of crystalline basalt and rhyolite. Geobiology, 2012, 10, 434-444.	2.4	37
176	The effects of meteorite impacts on the availability of bioessential elements for endolithic organisms. Meteoritics and Planetary Science, 2012, 47, 1681-1691.	1.6	8
177	Impact Disruption and Recovery of the Deep Subsurface Biosphere. Astrobiology, 2012, 12, 231-246.	3.0	30
178	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.	3.0	66
179	Clean access, measurement, and sampling of Ellsworth Subglacial Lake: A method for exploring deep Antarctic subglacial lake environments. Reviews of Geophysics, 2012, 50, .	23.0	63
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