

C S Cockell

List of Publications by Year in descending order

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Version: 2024-02-01

327
papers

14,480
citations

23500

58
h-index

30010

103
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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. <i>Microbial Biotechnology</i> , 2022, 15, 29-41.	2.0	7
2	Habitability Is Binary, But It Is Used by Astrobiologists to Encompass Continuous Ecological Questions. <i>Astrobiology</i> , 2022, 22, 7-13.	1.5	3
3	Mars: new insights and unresolved questions – Corrigendum. <i>International Journal of Astrobiology</i> , 2022, 21, 46-46.	0.9	7
4	The smallest space miners: principles of space biomining. <i>Extremophiles</i> , 2022, 26, 7.	0.9	26
5	Meteorites as Food Source on Early Earth: Growth, Selection, and Inhibition of a Microbial Community on a Carbonaceous Chondrite. <i>Astrobiology</i> , 2022, 22, 495-508.	1.5	2
6	Planning Implications Related to Sterilization-Sensitive Science Investigations Associated with Mars Sample Return (MSR). <i>Astrobiology</i> , 2022, 22, S-112-S-164.	1.5	7
7	Final Report of the Mars Sample Return Science Planning Group 2 (MSPG2). <i>Astrobiology</i> , 2022, 22, S-5-S-26.	1.5	15
8	Rationale and Proposed Design for a Mars Sample Return (MSR) Science Program. <i>Astrobiology</i> , 2022, 22, S-27-S-56.	1.5	14
9	The Scientific Importance of Returning Airfall Dust as a Part of Mars Sample Return (MSR). <i>Astrobiology</i> , 2022, 22, S-176-S-185.	1.5	5
10	Science and Curation Considerations for the Design of a Mars Sample Return (MSR) Sample Receiving Facility (SRF). <i>Astrobiology</i> , 2022, 22, S-217-S-237.	1.5	7
11	Preliminary Planning for Mars Sample Return (MSR) Curation Activities in a Sample Receiving Facility (SRF). <i>Astrobiology</i> , 2022, 22, S-57-S-80.	1.5	16
12	Whole genome sequencing of cyanobacterium <i>Nostoc</i> sp. CCCryo 231-06 using microfluidic single cell technology. <i>IScience</i> , 2022, 25, 104291.	1.9	6
13	Structural Responses of Nucleic Acids to Mars-Relevant Salts at Deep Subsurface Conditions. <i>Life</i> , 2022, 12, 677.	1.1	3
14	Meteorites: beneficial or toxic for life on Early Earth? Growth of an anaerobic microbial community on a carbonaceous chondrite. <i>Access Microbiology</i> , 2022, 4, .	0.2	1
15	Development of a compact water activity sensor system for planetary exploration. <i>Planetary and Space Science</i> , 2021, 195, 105132.	0.9	3
16	When is Life a Viable Hypothesis? The Case of Venusian Phosphine. <i>Astrobiology</i> , 2021, 21, 261-264.	1.5	17
17	Subsurface robotic exploration for geomorphology, astrobiology and mining during MINAR6 campaign, Boulby Mine, UK: part II (Results and Discussion). <i>International Journal of Astrobiology</i> , 2021, 20, 93-108.	0.9	0
18	Structural responses of model biomembranes to Mars-relevant salts. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 14212-14223.	1.3	6

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19	Taxonomic and functional analyses of intact microbial communities thriving in extreme, astrobiology-relevant, anoxic sites. <i>Microbiome</i> , 2021, 9, 50.	4.9	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. <i>Frontiers in Microbiology</i> , 2021, 12, 641387.	1.5	20
22	Perchlorate Salts Exert a Dominant, Deleterious Effect on the Structure, Stability, and Activity of $\hat{\pm}$ -Chymotrypsin. <i>Astrobiology</i> , 2021, 21, 405-412.	1.5	6
23	Minimum Units of Habitability and Their Abundance in the Universe. <i>Astrobiology</i> , 2021, 21, 481-489.	1.5	6
24	A meta-analysis of the activity, stability, and mutational characteristics of temperature-adapted enzymes. <i>Bioscience Reports</i> , 2021, 41, .	1.1	3
25	The Biological Study of Lifeless Worlds and Environments. <i>Astrobiology</i> , 2021, 21, 490-504.	1.5	5
26	Venus, an Astrobiology Target. <i>Astrobiology</i> , 2021, 21, 1163-1185.	1.5	38
27	Shaping of the Present-Day Deep Biosphere at Chicxulub by the Impact Catastrophe That Ended the Cretaceous. <i>Frontiers in Microbiology</i> , 2021, 12, 668240.	1.5	8
28	The Effects of Temperature and Pressure on Protein-Ligand Binding in the Presence of Mars-Relevant Salts. <i>Biology</i> , 2021, 10, 687.	1.3	10
29	Perchlorate salts confer psychrophilic characteristics in $\hat{\pm}$ -chymotrypsin. <i>Scientific Reports</i> , 2021, 11, 16523.	1.6	5
30	A Proposed Geobiology-Driven Nomenclature for Astrobiological <i>In Situ</i> Observations and Sample Analyses. <i>Astrobiology</i> , 2021, 21, 954-967.	1.5	6
31	Planning the Human Future Beyond Earth with the Prison Population: The <i>Life Beyond</i> Project. <i>Astrobiology</i> , 2021, 21, 1438-1449.	1.5	1
32	Biologically Available Chemical Energy in the Temperate but Uninhabitable Venusian Cloud Layer: What Do We Want to Know?. <i>Astrobiology</i> , 2021, 21, 1224-1236.	1.5	11
33	Are microorganisms everywhere they can be?. <i>Environmental Microbiology</i> , 2021, 23, 6355-6363.	1.8	4
34	Instantaneous Habitable Windows in the Parameter Space of Enceladus' Ocean. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006951.	1.5	10
35	Ions in the Deep Subsurface of Earth, Mars, and Icy Moons: Their Effects in Combination with Temperature and Pressure on tRNA-Ligand Binding. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10861.	1.8	3
36	Time-Sensitive Aspects of Mars Sample Return (MSR) Science. <i>Astrobiology</i> , 2021, , .	1.5	10

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37	Orbiting Sample Tiger Team Recommendation on Orbiting Sample Cleanliness. <i>Astrobiology</i> , 2021, , .	1.5	1
38	Subsurface robotic exploration for geomorphology, astrobiology and mining during MINAR6 campaign, Boulby Mine, UK: part I (Rover development). <i>International Journal of Astrobiology</i> , 2020, 19, 110-125.	0.9	4
39	Casamino acids slow motility and stimulate surface growth in an extreme oligotroph. <i>Environmental Microbiology Reports</i> , 2020, 12, 63-69.	1.0	0
40	Explosive interaction of impact melt and seawater following the Chicxulub impact event. <i>Geology</i> , 2020, 48, 108-112.	2.0	25
41	No Effect of Microgravity and Simulated Mars Gravity on Final Bacterial Cell Concentrations on the International Space Station: Applications to Space Bioproduction. <i>Frontiers in Microbiology</i> , 2020, 11, 579156.	1.5	29
42	The Detection of Elemental Signatures of Microbes in Martian Mudstone Analogs Using High Spatial Resolution Laser Ablation Ionization Mass Spectrometry. <i>Astrobiology</i> , 2020, 20, 1224-1235.	1.5	15
43	The Habitat of the Nascent Chicxulub Crater. <i>AGU Advances</i> , 2020, 1, e2020AV000208.	2.3	12
44	A Systematic Study of the Limits of Life in Mixed Ion Solutions: Physicochemical Parameters Do Not Predict Habitability. <i>Frontiers in Microbiology</i> , 2020, 11, 1478.	1.5	10
45	A bioenergetic model to predict habitability, biomass and biosignatures in astrobiology and extreme conditions. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200588.	1.5	7
46	High pressures increase $\hat{\pm}$ -chymotrypsin enzyme activity under perchlorate stress. <i>Communications Biology</i> , 2020, 3, 550.	2.0	14
47	The Role of Meteorite Impacts in the Origin of Life. <i>Astrobiology</i> , 2020, 20, 1121-1149.	1.5	63
48	Space station biomineral experiment demonstrates rare earth element extraction in microgravity and Mars gravity. <i>Nature Communications</i> , 2020, 11, 5523.	5.8	67
49	Astronomy + biology. <i>Astronomy and Geophysics</i> , 2020, 61, 3.28-3.32.	0.1	2
50	Visualizing the invisible: class excursions to ignite children's enthusiasm for microbes. <i>Microbial Biotechnology</i> , 2020, 13, 844-887.	2.0	26
51	Probing the hydrothermal system of the Chicxulub impact crater. <i>Science Advances</i> , 2020, 6, eaaz3053.	4.7	69
52	Metallomics in deep time and the influence of ocean chemistry on the metabolic landscapes of Earth's earliest ecosystems. <i>Scientific Reports</i> , 2020, 10, 4965.	1.6	31
53	ORIGIN: a novel and compact Laser Desorption " Mass Spectrometry system for sensitive in situ detection of amino acids on extraterrestrial surfaces. <i>Scientific Reports</i> , 2020, 10, 9641.	1.6	24
54	Persistence of Habitable, but Uninhabited, Aqueous Solutions and the Application to Extraterrestrial Environments. <i>Astrobiology</i> , 2020, 20, 617-627.	1.5	3

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55	Microbial life in the nascent Chicxulub crater. <i>Geology</i> , 2020, 48, 328-332.	2.0	40
56	0.25 Ga Salt Deposits Preserve Signatures of Habitable Conditions and Ancient Lipids. <i>Astrobiology</i> , 2020, 20, 864-877.	1.5	7
57	Impact of Simulated Martian Conditions on (Facultatively) Anaerobic Bacterial Strains from Different Mars Analogue Sites. <i>Current Issues in Molecular Biology</i> , 2020, 38, 103-122.	1.0	12
58	Growth of Non-Halophilic Bacteria in the Sodium–Magnesium–Sulfate–Chloride Ion System: Unravelling the Complexities of Ion Interactions in Terrestrial and Extraterrestrial Aqueous Environments. <i>Astrobiology</i> , 2020, 20, 944-955.	1.5	3
59	Microbial Life in Impact Craters. <i>Current Issues in Molecular Biology</i> , 2020, 38, 75-102.	1.0	1
60	Subsurface scientific exploration of extraterrestrial environments (MINAR 5): analogue science, technology and education in the Boulby Mine, UK. <i>International Journal of Astrobiology</i> , 2019, 18, 157-182.	0.9	17
61	Aggregated Cell Masses Provide Protection against Space Extremes and a Microhabitat for Hitchhiking Co-Inhabitants. <i>Astrobiology</i> , 2019, 19, 995-1007.	1.5	7
62	Enabling Martian habitability with silica aerogel via the solid-state greenhouse effect. <i>Nature Astronomy</i> , 2019, 3, 898-903.	4.2	51
63	Detectability of biosignatures in a low-biomass simulation of martian sediments. <i>Scientific Reports</i> , 2019, 9, 9706.	1.6	19
64	Sample Collection and Return from Mars: Optimising Sample Collection Based on the Microbial Ecology of Terrestrial Volcanic Environments. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	6
65	Freedom Engineering – Using Engineering to Mitigate Tyranny in Space. <i>Space Policy</i> , 2019, 49, 101328.	0.8	2
66	Space Station conditions are selective but do not alter microbial characteristics relevant to human health. <i>Nature Communications</i> , 2019, 10, 3990.	5.8	79
67	Microbial Markers Profile in Anaerobic Mars Analogue Environments Using the LDChip (Life Detector) Tj ETQq1 1 0.784314 rgBT /Over 7, 365.	1.6	16
68	Habitability is a binary property. <i>Nature Astronomy</i> , 2019, 3, 956-957.	4.2	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. <i>Acta Astronautica</i> , 2019, 160, 606-614.	1.7	5
71	Aeolian abrasion of rocks as a mechanism to produce methane in the Martian atmosphere. <i>Scientific Reports</i> , 2019, 9, 8229.	1.6	1
72	pH Influences the Distribution of Microbial Rock-Weathering Phenotypes in Weathered Shale Environments. <i>Geomicrobiology Journal</i> , 2019, 36, 752-763.	1.0	5

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73	Lifeless Martian samples and their significance. <i>Nature Astronomy</i> , 2019, 3, 468-470.	4.2	32
74	The BASALT Research Program: Designing and Developing Mission Elements in Support of Human Scientific Exploration of Mars. <i>Astrobiology</i> , 2019, 19, 245-259.	1.5	41
75	A Low-Diversity Microbiota Inhabits Extreme Terrestrial Basaltic Terrains and Their Fumaroles: Implications for the Exploration of Mars. <i>Astrobiology</i> , 2019, 19, 284-299.	1.5	19
76	Tactical Scientific Decision-Making during Crewed Astrobiology Mars Missions. <i>Astrobiology</i> , 2019, 19, 369-386.	1.5	16
77	Developing Intra-EVA Science Support Team Practices for a Human Mission to Mars. <i>Astrobiology</i> , 2019, 19, 387-400.	1.5	15
78	Strategic Planning Insights for Future Science-Driven Extravehicular Activity on Mars. <i>Astrobiology</i> , 2019, 19, 347-368.	1.5	16
79	Evidence For <i>In Vitro</i> and <i>In Situ</i> Pyrite Weathering By Microbial Communities Inhabiting Weathered Shale. <i>Geomicrobiology Journal</i> , 2019, 36, 600-611.	1.0	3
80	An Ionic Limit to Life in the Deep Subsurface. <i>Frontiers in Microbiology</i> , 2019, 10, 426.	1.5	26
81	Limits of Life and the Habitability of Mars: The ESA Space Experiment BIOMEX on the ISS. <i>Astrobiology</i> , 2019, 19, 145-157.	1.5	111
82	Growth, Viability, and Death of Planktonic and Biofilm <i>Sphingomonas desiccabilis</i> in Simulated Martian Brines. <i>Astrobiology</i> , 2019, 19, 87-98.	1.5	21
83	The organic stratigraphy of Ontong Java Plateau Tuff correlated with the depth-related presence and absence of putative microbial alteration structures. <i>Geobiology</i> , 2019, 17, 281-293.	1.1	5
84	Basaltic Terrains in Idaho and Hawai'i as Planetary Analogs for Mars Geology and Astrobiology. <i>Astrobiology</i> , 2019, 19, 260-283.	1.5	25
85	Lack of correlation of desiccation and radiation tolerance in microorganisms from diverse extreme environments tested under anoxic conditions. <i>FEMS Microbiology Letters</i> , 2018, 365, .	0.7	25
86	Yâ€Mars: An Astrobiological Analogue of Martian Mudstone. <i>Earth and Space Science</i> , 2018, 5, 163-174.	1.1	14
87	The UK Centre for Astrobiology: A Virtual Astrobiology Centre. <i>Accomplishments and Lessons Learned, 2011â€2016</i> . <i>Astrobiology</i> , 2018, 18, 224-243.	1.5	5
88	Exoplanet Biosignatures: A Review of Remotely Detectable Signs of Life. <i>Astrobiology</i> , 2018, 18, 663-708.	1.5	328
89	BioRock: new experiments and hardware to investigate microbeâ€mineral interactions in space. <i>International Journal of Astrobiology</i> , 2018, 17, 303-313.	0.9	22
90	Rapid colonization of artificial endolithic uninhabited habitats. <i>International Journal of Astrobiology</i> , 2018, 17, 386-401.	0.9	7

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91	Anaerobic microorganisms in astrobiological analogue environments: from field site to culture collection. <i>International Journal of Astrobiology</i> , 2018, 17, 314-328.	0.9	21
92	Life Beyond: planning for Mars in prisons. <i>Astronomy and Geophysics</i> , 2018, 59, 4.32-4.35.	0.1	2
93	Experimental studies addressing the longevity of <i>Bacillus subtilis</i> spores – The first data from a 500-year experiment. <i>PLoS ONE</i> , 2018, 13, e0208425.	1.1	56
94	Using exoplanets to test the universality of biology. <i>Nature Astronomy</i> , 2018, 2, 758-759.	4.2	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. £112. <i>Antarctic Science</i> , 2018, 30, 329-329.	0.5	0
96	The Development of an Effective Bacterial Single-Cell Lysis Method Suitable for Whole Genome Amplification in Microfluidic Platforms. <i>Micromachines</i> , 2018, 9, 367.	1.4	31
97	Rapid recovery of life at ground zero of the end-Cretaceous mass extinction. <i>Nature</i> , 2018, 558, 288-291.	13.7	123
98	Biogeochemical probing of microbial communities in a basalt-hosted hot spring at Kverkfjall volcano, Iceland. <i>Geobiology</i> , 2018, 16, 507-521.	1.1	15
99	Beyond Chloride Brines: Variable Metabolomic Responses in the Anaerobic Organism <i>Yersinia intermedia</i> MASE-LG-1 to NaCl and MgSO ₄ at Identical Water Activity. <i>Frontiers in Microbiology</i> , 2018, 9, 335.	1.5	7
100	Building a Geochemical View of Microbial Salt Tolerance: Halophilic Adaptation of <i>Marinococcus</i> in a Natural Magnesium Sulfate Brine. <i>Frontiers in Microbiology</i> , 2018, 9, 739.	1.5	20
101	Astrobiology and the Possibility of Life on Earth and Elsewhere. <i>Space Science Reviews</i> , 2017, 209, 1-42.	3.7	66
102	Evaluating galactic habitability using high-resolution cosmological simulations of galaxy formation. <i>International Journal of Astrobiology</i> , 2017, 16, 60-73.	0.9	36
103	Astrobiology as a framework for investigating antibiotic susceptibility: a study of <i>Halomonas hydrothermalis</i> . <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160942.	1.5	4
104	Liquid Water Restricts Habitability in Extreme Deserts. <i>Astrobiology</i> , 2017, 17, 309-318.	1.5	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. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	1.3	3
106	Planetary science and exploration in the deep subsurface: results from the MINAR Program, Boulby Mine, UK. <i>International Journal of Astrobiology</i> , 2017, 16, 114-129.	0.9	19
107	Mineralization and Preservation of an extremotolerant Bacterium Isolated from an Early Mars Analog Environment. <i>Scientific Reports</i> , 2017, 7, 8775.	1.6	17
108	Decontamination of geological samples by gas cluster ion beam etching or ultra violet/ozone. <i>Chemical Geology</i> , 2017, 466, 256-262.	1.4	6

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109	The Close-Up Imager Onboard the ESA ExoMars Rover: Objectives, Description, Operations, and Science Validation Activities. <i>Astrobiology</i> , 2017, 17, 595-611.	1.5	44
110	Earth as a Tool for Astrobiology – A European Perspective. <i>Space Science Reviews</i> , 2017, 209, 43-81.	3.7	68
111	Perchlorates on Mars enhance the bacteriocidal effects of UV light. <i>Scientific Reports</i> , 2017, 7, 4662.	1.6	78
112	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.	3.7	54
113	Viable cold-tolerant iron-reducing microorganisms in geographically diverse subglacial environments. <i>Biogeosciences</i> , 2017, 14, 1445-1455.	1.3	34
114	The Impact of Space Flight on Survival and Interaction of <i>Cupriavidus metallidurans</i> CH34 with Basalt, a Volcanic Moon Analog Rock. <i>Frontiers in Microbiology</i> , 2017, 8, 671.	1.5	19
115	The responses of an anaerobic microorganism, <i>Yersinia intermedia</i> MASE-LG-1 to individual and combined simulated Martian stresses. <i>PLoS ONE</i> , 2017, 12, e0185178.	1.1	17
116	Atmospheric Habitable Zones in Y Dwarf Atmospheres. <i>Astrophysical Journal</i> , 2017, 836, 184.	1.6	37
117	Rock geochemistry induces stress and starvation responses in the bacterial proteome. <i>Environmental Microbiology</i> , 2016, 18, 1110-1121.	1.8	18
118	Ionic Strength Is a Barrier to the Habitability of Mars. <i>Astrobiology</i> , 2016, 16, 427-442.	1.5	122
119	Salinity Influences the Response of <i>Halomonas hydrothermalis</i> to Artificial Fossilization by Evaporative Silicification. <i>Geomicrobiology Journal</i> , 2016, 33, 377-386.	1.0	4
120	The formation of peak rings in large impact craters. <i>Science</i> , 2016, 354, 878-882.	6.0	181
121	Microbial Diversity of Impact-Generated Habitats. <i>Astrobiology</i> , 2016, 16, 775-786.	1.5	7
122	The similarity of life across the universe. <i>Molecular Biology of the Cell</i> , 2016, 27, 1553-1555.	0.9	8
123	Venturing into new realms? Microorganisms in space. <i>FEMS Microbiology Reviews</i> , 2016, 40, 722-737.	3.9	75
124	Habitability: A Review. <i>Astrobiology</i> , 2016, 16, 89-117.	1.5	246
125	An ESA roadmap for geobiology in space exploration. <i>Acta Astronautica</i> , 2016, 118, 286-295.	1.7	12
126	Mesophilic Mineral-Weathering Bacteria Inhabit the Critical-Zone of a Perennially Cold Basaltic Environment. <i>Geomicrobiology Journal</i> , 2016, 33, 52-62.	1.0	3

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127	Biosignatures for Astrobiology. <i>Origins of Life and Evolution of Biospheres</i> , 2016, 46, 105-106.	0.8	3
128	Aerobically respiring prokaryotic strains exhibit a broader temperature–pH–salinity space for cell division than anaerobically respiring and fermentative strains. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150658.	1.5	12
129	Surface flux patterns on planets in circumbinary systems and potential for photosynthesis. <i>International Journal of Astrobiology</i> , 2015, 14, 465-478.	0.9	30
130	Are thermophilic microorganisms active in cold environments?. <i>International Journal of Astrobiology</i> , 2015, 14, 457-463.	0.9	21
131	The Interlayer Regions of Sheet Silicates as a Favorable Habitat for Endolithic Microorganisms. <i>Geomicrobiology Journal</i> , 2015, 32, 530-537.	1.0	3
132	Martin Brasier (1947–2014): astrobiologist. <i>International Journal of Astrobiology</i> , 2015, 14, 527-531.	0.9	0
133	THE QUEST FOR CRADLES OF LIFE: USING THE FUNDAMENTAL METALLICITY RELATION TO HUNT FOR THE MOST HABITABLE TYPE OF GALAXY. <i>Astrophysical Journal Letters</i> , 2015, 810, L2.	3.0	42
134	Geological repositories: scientific priorities and potential high-technology transfer from the space and physics sectors. <i>Mineralogical Magazine</i> , 2015, 79, 1651-1664.	0.6	3
135	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	1.6	31
136	Fourier Transform Infrared Spectral Detection of Life in Polar Subsurface Environments and its Application to Mars Exploration. <i>Applied Spectroscopy</i> , 2015, 69, 1059-1065.	1.2	11
137	PELS (Planetary Environmental Liquid Simulator): A New Type of Simulation Facility to Study Extraterrestrial Aqueous Environments. <i>Astrobiology</i> , 2015, 15, 111-118.	1.5	21
138	Reduction of the Temperature Sensitivity of <i>Halomonas hydrothermalis</i> by Iron Starvation Combined with Microaerobic Conditions. <i>Applied and Environmental Microbiology</i> , 2015, 81, 2156-2162.	1.4	24
139	In Search of Future Earths: Assessing the Possibility of Finding Earth Analogues in the Later Stages of Their Habitable Lifetimes. <i>Astrobiology</i> , 2015, 15, 400-411.	1.5	25
140	Transient liquid water and water activity at Gale crater on Mars. <i>Nature Geoscience</i> , 2015, 8, 357-361.	5.4	277
141	Nonphotosynthetic Pigments as Potential Biosignatures. <i>Astrobiology</i> , 2015, 15, 341-361.	1.5	61
142	Nonproteinogenic D-Amino Acids at Millimolar Concentrations Are a Toxin for Anaerobic Microorganisms Relevant to Early Earth and Other Anoxic Planets. <i>Astrobiology</i> , 2015, 15, 238-246.	1.5	6
143	Biosignatures on Mars: What, Where, and How? Implications for the Search for Martian Life. <i>Astrobiology</i> , 2015, 15, 998-1029.	1.5	209
144	Multiplication of microbes below 0.690 water activity: implications for terrestrial and extraterrestrial life. <i>Environmental Microbiology</i> , 2015, 17, 257-277.	1.8	131

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145	Impact shocked rocks as protective habitats on an anoxic early Earth. <i>International Journal of Astrobiology</i> , 2015, 14, 115-122.	0.9	31
146	An Estimate of the Total DNA in the Biosphere. <i>PLoS Biology</i> , 2015, 13, e1002168.	2.6	48
147	Types of habitat in the Universe. <i>International Journal of Astrobiology</i> , 2014, 13, 158-164.	0.9	15
148	11. The subsurface habitability of terrestrial rocky planets: Mars. , 2014, , 225-260.		13
149	Molecular Characterization of Prokaryotic Communities Associated with Loner Crater Basalts. <i>Geomicrobiology Journal</i> , 2014, 31, 519-528.	1.0	20
150	Epifluorescence, SEM, TEM and nanoSIMS image analysis of the cold phenotype of <i>Clostridium psychrophilum</i> at subzero temperatures. <i>FEMS Microbiology Ecology</i> , 2014, 90, 869-882.	1.3	14
151	Swansong biospheres II: the final signs of life on terrestrial planets near the end of their habitable lifetimes. <i>International Journal of Astrobiology</i> , 2014, 13, 229-243.	0.9	49
152	Habitable worlds with no signs of life. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130082.	1.6	32
153	Trajectories of Martian Habitability. <i>Astrobiology</i> , 2014, 14, 182-203.	1.5	72
154	Where Do We Go from Here? <i>Astrobiology</i> Editorial Board Opinions. <i>Astrobiology</i> , 2014, 14, 629-644.	1.5	1
155	Pioneer Microbial Communities of the Fimmvörðuháls Lava Flow, Eyjafjallajökull, Iceland. <i>Microbial Ecology</i> , 2014, 68, 504-518.	1.4	48
156	Impact-Generated Endolithic Habitat Within Crystalline Rocks of the Houghton Impact Structure, Devon Island, Canada. <i>Astrobiology</i> , 2014, 14, 522-533.	1.5	13
157	Impact-generated hydrothermal systems on Earth and Mars. <i>Icarus</i> , 2013, 224, 347-363.	1.1	219
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326	Expedition 364 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	10
327	Site M0077: microbiology. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	0