

C R Cousins

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

613
citations

567281

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24
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33
all docs

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docs citations

33
times ranked

934
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-Induced Fluorescence Emission (L.I.F.E.): Searching for Mars Organics with a UV-Enhanced PanCam. <i>Astrobiology</i> , 2009, 9, 953-964.	3.0	55
2	The PanCam Instrument for the ExoMars Rover. <i>Astrobiology</i> , 2017, 17, 511-541.	3.0	55
3	Volcano-Ice Interaction as a Microbial Habitat on Earth and Mars. <i>Astrobiology</i> , 2011, 11, 695-710.	3.0	52
4	Hydrothermal modification of the Sikhote-Alin iron meteorite under low pH geothermal environments. A plausibly prebiotic route to activated phosphorus on the early Earth. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 109, 90-112.	3.9	52
5	Plausible microbial metabolisms on Mars. <i>Astronomy and Geophysics</i> , 2013, 54, 1.13-1.16.	0.2	41
6	Glaciovolcanic hydrothermal environments in Iceland and implications for their detection on Mars. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 256, 61-77.	2.1	40
7	Phosphate Activation via Reduced Oxidation State Phosphorus (P). Mild Routes to Condensed-P Energy Currency Molecules. <i>Life</i> , 2013, 3, 386-402.	2.4	31
8	Selecting the geology filter wavelengths for the ExoMars Panoramic Camera instrument. <i>Planetary and Space Science</i> , 2012, 71, 80-100.	1.7	28
9	The identification of sulfide oxidation as a potential metabolism driving primary production on late Noachian Mars. <i>Scientific Reports</i> , 2020, 10, 10941.	3.3	23
10	Remote detection of past habitability at Mars-analogue hydrothermal alteration terrains using an ExoMars Panoramic Camera emulator. <i>Icarus</i> , 2015, 252, 284-300.	2.5	22
11	Are thermophilic microorganisms active in cold environments?. <i>International Journal of Astrobiology</i> , 2015, 14, 457-463.	1.6	21
12	Partitioning of Crystalline and Amorphous Phases During Freezing of Simulated Enceladus Ocean Fluids. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	3.6	21
13	Biosignature detection by Mars rover equivalent instruments in samples from the CanMars Mars Sample Return Analogue Deployment. <i>Planetary and Space Science</i> , 2019, 176, 104683.	1.7	17
14	Volcanogenic Fluvial-Lacustrine Environments in Iceland and Their Utility for Identifying Past Habitability on Mars. <i>Life</i> , 2015, 5, 568-586.	2.4	16
15	Astrobiological Considerations for the Selection of the Geological Filters on the ExoMars PanCam Instrument. <i>Astrobiology</i> , 2010, 10, 933-951.	3.0	15
16	Mars surface context cameras past, present, and future. <i>Earth and Space Science</i> , 2016, 3, 144-162.	2.6	15
17	Biogeochemical probing of microbial communities in a basalt-hosted hot spring at Kverkfjall volcano, Iceland. <i>Geobiology</i> , 2018, 16, 507-521.	2.4	15
18	An ESA roadmap for geobiology in space exploration. <i>Acta Astronautica</i> , 2016, 118, 286-295.	3.2	12

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19	Cryogenic silicification of microorganisms in hydrothermal fluids. Earth and Planetary Science Letters, 2018, 498, 1-8.	4.4	12
20	Lunar PanCam: Adapting ExoMars PanCam for the ESA Lunar Lander. Planetary and Space Science, 2012, 74, 247-253.	1.7	10
21	Natural Analogue Constraints on Europa's Non-ice Surface Material. Geophysical Research Letters, 2019, 46, 5759-5767.	4.0	9
22	Volcanic controls on the microbial habitability of Mars-analogue hydrothermal environments. Geobiology, 2021, 19, 489-509.	2.4	9
23	Quadruple sulfur isotope biosignatures from terrestrial Mars analogue systems. Geochimica Et Cosmochimica Acta, 2021, 308, 157-172.	3.9	8
24	The 2016 UK Space Agency Mars Utah Rover Field Investigation (MURFI). Planetary and Space Science, 2019, 165, 31-56.	1.7	7
25	The UK Centre for Astrobiology: A Virtual Astrobiology Centre. Accomplishments and Lessons Learned, 2011-2016. Astrobiology, 2018, 18, 224-243.	3.0	5
26	UV luminescence characterisation of organics in Mars-analogue substrates. Icarus, 2019, 321, 929-937.	2.5	5
27	Multiscale spectral discrimination of poorly crystalline and intermixed alteration phases using aerial and ground-based ExoMars rover emulator data. Icarus, 2021, 367, 114541.	2.5	4
28	Geological repositories: scientific priorities and potential high-technology transfer from the space and physics sectors. Mineralogical Magazine, 2015, 79, 1651-1664.	1.4	3
29	Multiscale and Multispectral Characterization of Mineralogy with the ExoMars 2022 Rover Remote Sensing Payload. Earth and Space Science, 2020, 7, e2019EA000692.	2.6	3
30	The ExoMars Spectral Tool (ExoSpec): an image analysis tool for ExoMars 2020 PanCam imagery. , 2018, , .		3
31	Strategies for equivalent dose determination without heating, suitable for portable luminescence readers. Radiation Measurements, 2018, 120, 170-175.	1.4	2
32	Optimizing ExoMars Rover Remote Sensing Multispectral Science: Cross-Rover Comparison Using Laboratory and Orbital Data. Earth and Space Science, 2022, 9, .	2.6	1