

# Ute BÄjtger

## List of Publications by Year in descending order

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Version: 2024-02-01

28  
papers

540  
citations

623734

14  
h-index

642732

23  
g-index

28  
all docs

28  
docs citations

28  
times ranked

709  
citing authors

#	ARTICLE	IF	CITATIONS
1	Limits of Life and the Habitability of Mars: The ESA Space Experiment BIOMEX on the ISS. <i>Astrobiology</i> , 2019, 19, 145-157.	3.0	111
2	Optimizing the detection of carotene in cyanobacteria in a martian regolith analogue with a Raman spectrometer for the ExoMars mission. <i>Planetary and Space Science</i> , 2012, 60, 356-362.	1.7	77
3	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.	1.9	38
4	Protection of cyanobacterial carotenoids' Raman signatures by Martian mineral analogues after high-dose gamma irradiation. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1617-1627.	2.5	37
5	Mineralogical and Raman spectroscopy studies of natural olivines exposed to different planetary environments. <i>Planetary and Space Science</i> , 2014, 104, 163-172.	1.7	25
6	Responses of the Black Fungus <i>Cryomyces antarcticus</i> to Simulated Mars and Space Conditions on Rock Analogs. <i>Astrobiology</i> , 2019, 19, 209-220.	3.0	25
7	The Effect of High-Dose Ionizing Radiation on the Isolated Photobiont of the Astrobiological Model Lichen <i>Circinaria gyrosa</i> . <i>Astrobiology</i> , 2017, 17, 154-162.	3.0	24
8	Laser alteration on iron sulfides under various environmental conditions. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1509-1517.	2.5	22
9	Mineralogical analyses of surface sediments in the Antarctic Dry Valleys: coordinated analyses of Raman spectra, reflectance spectra and elemental abundances. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20140198.	3.4	20
10	Low-level LIBS and Raman data fusion in the context of in situ Mars exploration. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1682-1701.	2.5	19
11	Single-cell analysis of the methanogenic archaeon <i>Methanosarcina soligelidi</i> from Siberian permafrost by means of confocal Raman microspectroscopy for astrobiological research. <i>Planetary and Space Science</i> , 2014, 98, 191-197.	1.7	18
12	The Chelyabinsk meteorite: New insights from a comprehensive electron microscopy and Raman spectroscopy study with evidence for graphite in olivine of ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2018, 53, 416-432.	1.6	17
13	In situ science on Phobos with the Raman spectrometer for MMX (RAX): preliminary design and feasibility of Raman measurements. <i>Earth, Planets and Space</i> , 2021, 73, .	2.5	17
14	<i>Ab initio</i> simulations and experimental Raman spectra of $\text{Mg}_2\text{SiO}_4$ forsterite to simulate Mars surface environmental conditions. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1528-1535.	2.5	14
15	Effects of pulsed laser and plasma interaction on Fe, Ni, Ti, and their oxides for LIBS Raman analysis in extraterrestrial environments. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1667-1681.	2.5	10
16	The evaluation of time-resolved Raman spectroscopy for the suppression of background fluorescence from space-relevant samples. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 969-982.	2.5	8
17	Fungal biomarkers are detectable in Martian rock-analogues after space exposure: implications for the search of life on Mars. <i>International Journal of Astrobiology</i> , 2021, 20, 345-358.	1.6	8
18	Identification of inorganic and organic inclusions in the subglacial antarctic Lake Vostok ice with Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1503-1508.	2.5	6

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19	Raman spectra of hydrous minerals investigated under various environmental conditions in preparation for planetary space missions. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1830-1839.	2.5	6
20	Raman spectra of the Markovka chondrite (H4). <i>Journal of Raman Spectroscopy</i> , 2022, 53, 463-471.	2.5	6
21	Fungal Biomarkers Stability in Mars Regolith Analogues after Simulated Space and Mars-like Conditions. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 859.	3.5	6
22	Laser-induced alteration of Raman spectra for micron-sized solid particles. <i>Planetary and Space Science</i> , 2017, 138, 25-32.	1.7	5
23	Shifted Excitation Raman Difference Spectroscopy applied to extraterrestrial particles returned from the asteroid Itokawa. <i>Planetary and Space Science</i> , 2017, 144, 106-111.	1.7	5
24	Artifact formation during Raman measurements and its relevance to the search for chemical biosignatures on Mars. <i>Planetary and Space Science</i> , 2019, 179, 104714.	1.7	4
25	Space weathering simulation of micrometeorite bombardment on silicates and their mixture for space application. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 411-419.	2.5	4
26	Application of Raman Spectroscopy as In Situ Technology for the Search for Life. <i>Cellular Origin and Life in Extreme Habitats</i> , 2013, , 331-345.	0.3	3
27	The Ground-Based BIOMEX Experiment Verification Tests for Life Detection on Mars. <i>Life</i> , 2021, 11, 1212.	2.4	3
28	Investigation of fungal biomolecules after Low Earth Orbit exposure: a testbed for the next Moon missions. <i>Environmental Microbiology</i> , 2022, , .	3.8	2