Zita Martins

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4990694/publications.pdf

Version: 2024-02-01

54 papers	2,068 citations	236925 25 h-index	233421 45 g-index
58 all docs	58 docs citations	58 times ranked	2142 citing authors

#	Article	IF	Citations
1	Extraterrestrial nucleobases in the Murchison meteorite. Earth and Planetary Science Letters, 2008, 270, 130-136.	4.4	317
2	Amino acid analyses of Antarctic CM2 meteorites using liquid chromatography-time of flight-mass spectrometry. Meteoritics and Planetary Science, 2006, 41, 889-902.	1.6	167
3	Indigenous amino acids in primitive CR meteorites. Meteoritics and Planetary Science, 2007, 42, 2125-2136.	1.6	138
4	Shock synthesis of amino acids from impacting cometary and icy planet surface analogues. Nature Geoscience, 2013, 6, 1045-1049.	12.9	129
5	The amino acid and hydrocarbon contents of the Paris meteorite: Insights into the most primitive <scp>CM</scp> chondrite. Meteoritics and Planetary Science, 2015, 50, 926-943.	1.6	73
6	Influence of mineralogy on the preservation of amino acids under simulated Mars conditions. Icarus, 2016, 277, 342-353.	2.5	73
7	Earth as a Tool for Astrobiologyâ€"A European Perspective. Space Science Reviews, 2017, 209, 43-81.	8.1	68
8	Organic Chemistry of Carbonaceous Meteorites. Elements, 2011, 7, 35-40.	0.5	67
9	Astrobiology and the Possibility of Life on Earth and Elsewhereâ€¦. Space Science Reviews, 2017, 209, 1-42.	8.1	66
10	Amino acids in Antarctic CM1 meteorites and their relationship to other carbonaceous chondrites. Meteoritics and Planetary Science, 2007, 42, 81-92.	1.6	60
11	Molecular Chirality in Meteorites and Interstellar Ices, and the Chirality Experiment on Board the ESA Cometary Rosetta Mission. Angewandte Chemie - International Edition, 2015, 54, 1402-1412.	13.8	56
12	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
13	Amino acid composition, petrology, geochemistry, ¹⁴C terrestrial age and oxygen isotopes of the ShiÅŸr 033 CR chondrite. Meteoritics and Planetary Science, 2007, 42, 1581-1595.	1.6	50
14	Analysis and survival of amino acids in Martian regolith analogs. Meteoritics and Planetary Science, 2006, 41, 391-405.	1.6	47
15	Free dicarboxylic and aromatic acids in the carbonaceous chondrites Murchison and Orgueil. Meteoritics and Planetary Science, 2006, 41, 1073-1080.	1.6	44
16	Astrobiology and habitability studies in preparation for future Mars missions: trends from investigating minerals, organics and biota. International Journal of Astrobiology, 2011, 10, 239-253.	1.6	41
17	The Nitrogen Heterocycle Content of Meteorites and Their Significance for the Origin of Life. Life, 2018, 8, 28.	2.4	41
18	Quantitative enantioseparation of amino acids by comprehensive two-dimensional gas chromatography applied to non-terrestrial samples. Journal of Chromatography A, 2016, 1433, 131-136.	3.7	36

#	Article	IF	Citations
19	The ORGANICS experiment on BIOPAN V: UV and space exposure of aromatic compounds. Planetary and Space Science, 2007, 55, 383-400.	1.7	34
20	Mars on Earth: soil analogues for future Mars missions. Astronomy and Geophysics, 2008, 49, 2.20-2.23.	0.2	32
21	Polycyclic aromatic hydrocarbons and amino acids in meteorites and ice samples from LaPaz Icefield, Antarctica. Meteoritics and Planetary Science, 2008, 43, 1465-1480.	1.6	30
22	Field astrobiology research in Moonâ€“Mars analogue environments: instruments and methods. International Journal of Astrobiology, 2011, 10, 141-160.	1.6	30
23	Biomass preservation in impact melt ejecta. Nature Geoscience, 2013, 6, 1018-1022.	12.9	28
24	Organic host analogues and the search for life on Mars. International Journal of Astrobiology, 2011, 10, 31-44.	1.6	26
25	UV to far-IR reflectance spectra of carbonaceous chondrites â€“ I. Implications for remote characterization of dark primitive asteroids targeted by sample-return missions. Monthly Notices of the Royal Astronomical Society, 2014, 437, 227-240.	4.4	26
26	Amino acid analyses of type 3 chondrites Colony, Ornans, Chainpur, and Bishunpur. Meteoritics and Planetary Science, 2012, 47, 1502-1516.	1.6	25
27	Extraction of amino acids from soils close to the Mars Desert Research Station (MDRS), Utah. International Journal of Astrobiology, 2011, 10, 231-238.	1.6	24
28	Type IV Kerogens as Analogues for Organic Macromolecular Materials in Aqueously Altered Carbonaceous Chondrites. Astrobiology, 2013, 13, 324-333.	3.0	22
29	Concerns of Organic Contamination for Sample Return Space Missions. Space Science Reviews, 2020, 216, 56.	8.1	22
30	Habitability on planetary surfaces: interdisciplinary preparation phase for future Mars missions. International Journal of Astrobiology, 2009, 8, 301-315.	1.6	20
31	Organic Matter in the Solar Systemâ€”Implications for Future on-Site and Sample Return Missions. Space Science Reviews, 2020, 216, 1.	8.1	19
32	The Amino Acid Distribution in Laboratory Analogs of Extraterrestrial Organic Matter: A Comparison to CM Chondrites. Astrophysical Journal, 2018, 865, 41.	4.5	18
33	Insoluble organic matter in chondrites: Archetypal melanin-like PAH-based multifunctionality at the origin of life?. Physics of Life Reviews, 2021, 37, 65-93.	2.8	18
34	Analysis of mineral matrices of planetary soil analogues from the Utah Desert. International Journal of Astrobiology, 2011, 10, 221-229.	1.6	17
35	Organic geochemistry of late Jurassic paleosols (Dirt Beds) of Dorset, UK. Marine and Petroleum Geology, 2012, 37, 41-52.	3.3	17
36	Inconclusive evidence for nonterrestrial isoleucine enantiomeric excesses in primitive meteorites. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3288-E3288.	7.1	16

#	Article	IF	Citations
37	Microbial Communities in Sediments From Four Mildly Acidic Ephemeral Salt Lakes in the Yilgarn Craton (Australia) â€“ Terrestrial Analogs to Ancient Mars. Frontiers in Microbiology, 2019, 10, 779.	3.5	15
38	Joint Europa Mission (JEM): a multi-scale study of Europa to characterize its habitability and search for extant life. Planetary and Space Science, 2020, 193, 104960.	1.7	15
39	Triple Fâ€”a comet nucleus sample return mission. Experimental Astronomy, 2009, 23, 809-847.	3.7	14
40	In situ biomarkers and the Life Marker Chip. Astronomy and Geophysics, 2011, 52, 1.34-1.35.	0.2	13
41	Effects of UV-organic interaction and martian conditions on the survivability of organics. Icarus, 2019, 323, 33-39.	2.5	9
42	Interaction of organic compounds with chondritic silicate surfaces. Atomistic insights from quantum chemical periodic simulations. Physical Chemistry Chemical Physics, 2017, 19, 18217-18231.	2.8	7
43	Detection of Organic Matter and Biosignatures in Space Missions. Current Issues in Molecular Biology, 2020, 38, 53-74.	2.4	5
44	Color Catalogue of Life in Ice: Surface Biosignatures on Icy Worlds. Astrobiology, 2021, , .	3.0	4
45	Fluorescence spectroscopy for the detection of life in the Salten Skov Mars regolith analogue. Planetary and Space Science, 2012, 68, 42-47.	1.7	2
46	Spectrofluorometric analysis of amino acid mixtures: Implications for future space missions. Planetary and Space Science, 2012, 60, 336-341.	1.7	2
47	The Geochemistry of Icy Moons. , 2021, , 207-216.		2
48	Origin of the Genetic Code and Abiotic Synthesis of Organic Compounds. Cellular Origin and Life in Extreme Habitats, 2012, , 271-289.	0.3	1
49	Organic molecules in meteorites. Proceedings of the International Astronomical Union, 2015, 11, 411-415.	0.0	1
50	Clues to the early solar system: Extraterrestrial organic molecules in meteorites. Biochemist, 2014, 36, 13-15.	0.5	1
51	Organic Molecules in Meteorites and Their Astrobiological Significance. , 2018, , 177-194.		1
52	The fifth UK Astrobiology Conference (ASB5). International Journal of Astrobiology, 2014, 13, 99-100.	1.6	0
53	Carbonaceous Material in Extra-terrestrial Matter. Proceedings of the International Astronomical Union, 2015, 11, 257-260.	0.0	0
54	Joint Europa Mission (JEM): A Multiscale, Multi-Platform Mission to Characterize Europaâ€™s Habitability and Search for Extant Life. , 2021, 53, .		0