

Zita Martins

List of Publications by Year in descending order

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54
papers

2,068
citations

236925

25
h-index

233421

45
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58
all docs

58
docs citations

58
times ranked

2142
citing authors

#	ARTICLE	IF	CITATIONS
1	Joint Europa Mission (JEM): A Multiscale, Multi-Platform Mission to Characterize Europa's Habitability and Search for Extant Life. , 2021, 53, .		0
2	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
3	The Geochemistry of Icy Moons. , 2021, , 207-216.		2
4	Color Catalogue of Life in Ice: Surface Biosignatures on Icy Worlds. Astrobiology, 2021, , .	3.0	4
5	Organic Matter in the Solar System's Implications for Future on-Site and Sample Return Missions. Space Science Reviews, 2020, 216, 1.	8.1	19
6	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
7	Concerns of Organic Contamination for Sample Return Space Missions. Space Science Reviews, 2020, 216, 56.	8.1	22
8	Detection of Organic Matter and Biosignatures in Space Missions. Current Issues in Molecular Biology, 2020, 38, 53-74.	2.4	5
9	Effects of UV-organic interaction and martian conditions on the survivability of organics. Icarus, 2019, 323, 33-39.	2.5	9
10	Microbial Communities in Sediments From Four Mildly Acidic Ephemeral Salt Lakes in the Yilgarn Craton (Australia) - Terrestrial Analogs to Ancient Mars. Frontiers in Microbiology, 2019, 10, 779.	3.5	15
11	The Amino Acid Distribution in Laboratory Analogs of Extraterrestrial Organic Matter: A Comparison to CM Chondrites. Astrophysical Journal, 2018, 865, 41.	4.5	18
12	The Nitrogen Heterocycle Content of Meteorites and Their Significance for the Origin of Life. Life, 2018, 8, 28.	2.4	41
13	Organic Molecules in Meteorites and Their Astrobiological Significance. , 2018, , 177-194.		1
14	Astrobiology and the Possibility of Life on Earth and Elsewhere. Space Science Reviews, 2017, 209, 1-42.	8.1	66
15	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
16	Earth as a Tool for Astrobiology - A European Perspective. Space Science Reviews, 2017, 209, 43-81.	8.1	68
17	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
18	Influence of mineralogy on the preservation of amino acids under simulated Mars conditions. Icarus, 2016, 277, 342-353.	2.5	73

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19	Quantitative enantioseparation of amino acids by comprehensive two-dimensional gas chromatography applied to non-terrestrial samples. <i>Journal of Chromatography A</i> , 2016, 1433, 131-136.	3.7	36
20	Organic molecules in meteorites. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 411-415.	0.0	1
21	Carbonaceous Material in Extra-terrestrial Matter. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 257-260.	0.0	0
22	The amino acid and hydrocarbon contents of the Paris meteorite: Insights into the most primitive CM chondrite. <i>Meteoritics and Planetary Science</i> , 2015, 50, 926-943.	1.6	73
23	Molecular Chirality in Meteorites and Interstellar Ices, and the Chirality Experiment on Board the ESA Cometary Rosetta Mission. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1402-1412.	13.8	56
24	The fifth UK Astrobiology Conference (ASB5). <i>International Journal of Astrobiology</i> , 2014, 13, 99-100.	1.6	0
25	UV to far-IR reflectance spectra of carbonaceous chondrites – I. Implications for remote characterization of dark primitive asteroids targeted by sample-return missions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 227-240.	4.4	26
26	Clues to the early solar system: Extraterrestrial organic molecules in meteorites. <i>Biochemist</i> , 2014, 36, 13-15.	0.5	1
27	Biomass preservation in impact melt ejecta. <i>Nature Geoscience</i> , 2013, 6, 1018-1022.	12.9	28
28	Shock synthesis of amino acids from impacting cometary and icy planet surface analogues. <i>Nature Geoscience</i> , 2013, 6, 1045-1049.	12.9	129
29	Type IV Kerogens as Analogues for Organic Macromolecular Materials in Aqueously Altered Carbonaceous Chondrites. <i>Astrobiology</i> , 2013, 13, 324-333.	3.0	22
30	Amino acid analyses of type 3 chondrites Colony, Ornans, Chainpur, and Bishunpur. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1502-1516.	1.6	25
31	Origin of the Genetic Code and Abiotic Synthesis of Organic Compounds. <i>Cellular Origin and Life in Extreme Habitats</i> , 2012, , 271-289.	0.3	1
32	Inconclusive evidence for nonterrestrial isoleucine enantiomeric excesses in primitive meteorites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3288-E3288.	7.1	16
33	Organic geochemistry of late Jurassic paleosols (Dirt Beds) of Dorset, UK. <i>Marine and Petroleum Geology</i> , 2012, 37, 41-52.	3.3	17
34	Fluorescence spectroscopy for the detection of life in the Salten Skov Mars regolith analogue. <i>Planetary and Space Science</i> , 2012, 68, 42-47.	1.7	2
35	Spectrofluorometric analysis of amino acid mixtures: Implications for future space missions. <i>Planetary and Space Science</i> , 2012, 60, 336-341.	1.7	2
36	Extraction of amino acids from soils close to the Mars Desert Research Station (MDRS), Utah. <i>International Journal of Astrobiology</i> , 2011, 10, 231-238.	1.6	24

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37	Field astrobiology research in Moonâ€“Mars analogue environments: instruments and methods. <i>International Journal of Astrobiology</i> , 2011, 10, 141-160.	1.6	30
38	In situ biomarkers and the Life Marker Chip. <i>Astronomy and Geophysics</i> , 2011, 52, 1.34-1.35.	0.2	13
39	Organic Chemistry of Carbonaceous Meteorites. <i>Elements</i> , 2011, 7, 35-40.	0.5	67
40	Organic host analogues and the search for life on Mars. <i>International Journal of Astrobiology</i> , 2011, 10, 31-44.	1.6	26
41	Analysis of mineral matrices of planetary soil analogues from the Utah Desert. <i>International Journal of Astrobiology</i> , 2011, 10, 221-229.	1.6	17
42	Astrobiology and habitability studies in preparation for future Mars missions: trends from investigating minerals, organics and biota. <i>International Journal of Astrobiology</i> , 2011, 10, 239-253.	1.6	41
43	Habitability on planetary surfaces: interdisciplinary preparation phase for future Mars missions. <i>International Journal of Astrobiology</i> , 2009, 8, 301-315.	1.6	20
44	Triple Fâ€“a comet nucleus sample return mission. <i>Experimental Astronomy</i> , 2009, 23, 809-847.	3.7	14
45	Mars on Earth: soil analogues for future Mars missions. <i>Astronomy and Geophysics</i> , 2008, 49, 2.20-2.23.	0.2	32
46	Extraterrestrial nucleobases in the Murchison meteorite. <i>Earth and Planetary Science Letters</i> , 2008, 270, 130-136.	4.4	317
47	Polycyclic aromatic hydrocarbons and amino acids in meteorites and ice samples from LaPaz Icefield, Antarctica. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1465-1480.	1.6	30
48	Amino acids in Antarctic CM1 meteorites and their relationship to other carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2007, 42, 81-92.	1.6	60
49	Amino acid composition, petrology, geochemistry, ¹⁴ C terrestrial age and oxygen isotopes of the ShiÅr 033 CR chondrite. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1581-1595.	1.6	50
50	Indigenous amino acids in primitive CR meteorites. <i>Meteoritics and Planetary Science</i> , 2007, 42, 2125-2136.	1.6	138
51	The ORGANICS experiment on BIOPAN V: UV and space exposure of aromatic compounds. <i>Planetary and Space Science</i> , 2007, 55, 383-400.	1.7	34
52	Analysis and survival of amino acids in Martian regolith analogs. <i>Meteoritics and Planetary Science</i> , 2006, 41, 391-405.	1.6	47
53	Amino acid analyses of Antarctic CM2 meteorites using liquid chromatography-time of flight-mass spectrometry. <i>Meteoritics and Planetary Science</i> , 2006, 41, 889-902.	1.6	167
54	Free dicarboxylic and aromatic acids in the carbonaceous chondrites Murchison and Orgueil. <i>Meteoritics and Planetary Science</i> , 2006, 41, 1073-1080.	1.6	44