

Ricardo Arevalo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2662034/publications.pdf>

Version: 2024-02-01

22
papers

1,053
citations

759233

12
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

1339
citing authors

#	ARTICLE	IF	CITATIONS
1	Science Autonomy for Ocean Worlds Astrobiology: A Perspective. <i>Astrobiology</i> , 2022, 22, 901-913.	3.0	7
2	CORALS: A Laser Desorption/Ablation Orbitrap Mass Spectrometer for In Situ Exploration of Europa. , 2021, , .		10
3	Understanding the Lunar Nearsideâ€Farside Dichotomy via In Situ Trace Element Measurements: The Scientific Framework of a Prospective Landed Mission. <i>Planetary Science Journal</i> , 2021, 2, 80.	3.6	2
4	Planetary Mass Spectrometry for Agnostic Life Detection in the Solar System. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	19
5	Mass spectrometry and planetary exploration: A brief review and future projection. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4454.	1.6	57
6	A Novel Approach to Identifying Mantleâ€Equilibrated Zircon by Using Trace Element Chemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009230.	2.5	5
7	K/U of the MORB Source and Silicate Earth. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020245.	3.4	6
8	A prospective microwave plasma source for <i>in situ</i> spaceflight applications. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2740-2747.	3.0	8
9	An Orbitrapâ€based laser desorption/ablation mass spectrometer designed for spaceflight. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1875-1886.	1.5	36
10	Improved Precision and Accuracy of Quantification of Rare Earth Element Abundances via Medium-Resolution LA-ICP-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2344-2351.	2.8	4
11	MOMA: the challenge to search for organics and biosignatures on Mars. <i>International Journal of Astrobiology</i> , 2016, 15, 239-250.	1.6	52
12	Sulfur and metal fertilization of the lower continental crust. <i>Lithos</i> , 2016, 244, 74-93.	1.4	67
13	Elemental fractionation during condensation of plasma plumes generated by laser ablation: a ToF-SIMS study of condensate blankets. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 2316-2322.	3.0	2
14	Design and demonstration of the Mars Organic Molecule Analyzer (MOMA) on the ExoMars 2018 rover. , 2015, , .		17
15	High-precision measurement of Eu/Eu* in geological glasses via LA-ICP-MS analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1835-1843.	3.0	7
16	Simplified mantle architecture and distribution of radiogenic power. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2265-2285.	2.5	26
17	Ancient lithospheric source for Quaternary lavas in Hispaniola. <i>Nature Geoscience</i> , 2011, 4, 554-557.	12.9	22
18	Highly siderophile element systematics of the 3.3Ga Weltevreden komatiites, South Africa: Implications for early Earth history. <i>Earth and Planetary Science Letters</i> , 2011, 311, 253-263.	4.4	51

#	ARTICLE	IF	CITATIONS
19	Chemical variations and regional diversity observed in MORB. <i>Chemical Geology</i> , 2010, 271, 70-85.	3.3	313
20	The K/U ratio of the silicate Earth: Insights into mantle composition, structure and thermal evolution. <i>Earth and Planetary Science Letters</i> , 2009, 278, 361-369.	4.4	202
21	Tungsten in Hawaiian picrites: A compositional model for the sources of Hawaiian lavas. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4517-4530.	3.9	15
22	Tungsten geochemistry and implications for understanding the Earth's interior. <i>Earth and Planetary Science Letters</i> , 2008, 272, 656-665.	4.4	125