

Rafael Martinez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8293261/publications.pdf>

Version: 2024-02-01

24
papers

354
citations

759233

12
h-index

794594

19
g-index

24
all docs

24
docs citations

24
times ranked

326
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Sputtering Analysis of Astrophysical Ices. Earth, Moon and Planets, 2005, 97, 311-329.	0.6	37
2	Secondary ion emission from condensed CO bombarded by fission fragments. International Journal of Mass Spectrometry, 2006, 251, 1-9.	1.5	31
3	Ion cluster desorption from frozen NH ₃ induced by impact of fast multi-charged ions. International Journal of Mass Spectrometry, 2006, 253, 112-121.	1.5	30
4	Radiolysis and sputtering of carbon dioxide ice induced by swift Ti, Ni, and Xe ions. Nuclear Instruments & Methods in Physics Research B, 2015, 365, 477-481.	1.4	27
5	Astrophysical Icy Surface Simulation under Energetic Particles and Radiation Field in Formic Acid. Journal of Physical Chemistry C, 2008, 112, 11954-11961.	3.1	26
6	Electronic sputtering produced by fission fragments on condensed CO and CO ₂ . Journal of the American Society for Mass Spectrometry, 2006, 17, 1120-1128.	2.8	25
7	Frozen methanol bombarded by energetic particles: Relevance to solid state astrochemistry. Surface Science, 2009, 603, 1190-1196.	1.9	21
8	Irradiation of nitrogen-rich ices by swift heavy ions. Astronomy and Astrophysics, 2016, 592, A99.	5.1	20
9	Plasma Desorption Mass Spectrometry analysis of HCOOH ice. Journal of Electron Spectroscopy and Related Phenomena, 2007, 155, 124-128.	1.7	17
10	Cluster emission and chemical reactions in oxygen and nitrogen ices induced by fast heavy-ion impact. Journal of Mass Spectrometry, 2008, 43, 1521-1530.	1.6	15
11	Production of NH ₄ ⁺ and OCN ⁻ ions by the interaction of heavy-ion cosmic rays with CO-NH ₃ interstellar ice. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3317-3327.	4.4	14
12	Radioresistance of Adenine to Cosmic Rays. Astrobiology, 2017, 17, 298-308.	3.0	13
13	Fragmentation of (LiF) _n Li ⁺ clusters in the acceleration region of TOF spectrometers. Journal of Mass Spectrometry, 2007, 42, 1300-1309.	1.6	11
14	Production of Hydronium Ion (H ₃ O) ⁺ and Protonated Water Clusters (H ₂ O) _n H ⁺ after Energetic Ion Bombardment of Water Ice in Astrophysical Environments. Journal of Physical Chemistry A, 2019, 123, 8001-8008.	2.5	11
15	Hybrid molecular ions emitted from CO-NH ₃ ice bombarded by fission fragments. International Journal of Mass Spectrometry, 2007, 262, 195-202.	1.5	9
16	Characterization of (NH ₃) _n = 1-6 NH ⁺ Clusters Produced by ²⁵² Cf Fragments Impact onto a NH ₃ Condensed Target. Journal of Physical Chemistry A, 2007, 111, 8302-8307.	2.5	8
17	Electronic sputtering of thin lithium fluoride films induced by swift heavy ions. Materials Research Express, 2015, 2, 076403.	1.6	8
18	Ion radiation in icy space environments: Synthesis and radioresistance of complex organic molecules. Low Temperature Physics, 2019, 45, 590-597.	0.6	8

#	ARTICLE	IF	CITATIONS
19	Sputtering of sodium and potassium from nepheline: Secondary ion yields and velocity spectra. Nuclear Instruments & Methods in Physics Research B, 2017, 406, 523-528.	1.4	7
20	Secondary ion emission induced by fission fragment impact in CO ₂ /NH ₃ and CO ₂ /NH ₃ /H ₂ O ices: modification in the CO ₂ /NH ₃ ice structure. Journal of Mass Spectrometry, 2007, 42, 1333-1341.	1.6	5
21	Secondary ion emission dynamics of solid ammonia bombarded by heavy ions. European Physical Journal D, 2012, 66, 1.	1.3	4
22	Energetic ion irradiation of N ₂ O ices relevant for Solar system surfaces. Monthly Notices of the Royal Astronomical Society, 2021, 502, 1423-1432.	4.4	4
23	Formation of carbon-based nanotubular structures by in situ electron irradiation. Nuclear Instruments & Methods in Physics Research B, 2019, 451, 18-23.	1.4	2
24	Space weathering on inner planetary surface analogues induced by swift multicharged heavy ion bombardment. Icarus, 2022, 375, 114830.	2.5	1