

Rafael Martinez

List of Publications by Year in descending order

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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	Space weathering on inner planetary surface analogues induced by swift multicharged heavy ion bombardment. <i>Icarus</i> , 2022, 375, 114830.	2.5	1
2	Energetic ion irradiation of N ₂ O ices relevant for Solar system surfaces. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 1423-1432.	4.4	4
3	Ion radiation in icy space environments: Synthesis and radioresistance of complex organic molecules. <i>Low Temperature Physics</i> , 2019, 45, 590-597.	0.6	8
4	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. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8001-8008.	2.5	11
5	Formation of carbon-based nanotubular structures by in situ electron irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 451, 18-23.	1.4	2
6	Sputtering of sodium and potassium from nepheline: Secondary ion yields and velocity spectra. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 406, 523-528.	1.4	7
7	Radioresistance of Adenine to Cosmic Rays. <i>Astrobiology</i> , 2017, 17, 298-308.	3.0	13
8	Irradiation of nitrogen-rich ices by swift heavy ions. <i>Astronomy and Astrophysics</i> , 2016, 592, A99.	5.1	20
9	Electronic sputtering of thin lithium fluoride films induced by swift heavy ions. <i>Materials Research Express</i> , 2015, 2, 076403.	1.6	8
10	Radiolysis and sputtering of carbon dioxide ice induced by swift Ti, Ni, and Xe ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 365, 477-481.	1.4	27
11	Production of NH ₄ ⁺ and OCN ⁻ ions by the interaction of heavy-ion cosmic rays with CO-NH ₃ interstellar ice. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 3317-3327.	4.4	14
12	Secondary ion emission dynamics of solid ammonia bombarded by heavy ions. <i>European Physical Journal D</i> , 2012, 66, 1.	1.3	4
13	Frozen methanol bombarded by energetic particles: Relevance to solid state astrochemistry. <i>Surface Science</i> , 2009, 603, 1190-1196.	1.9	21
14	Cluster emission and chemical reactions in oxygen and nitrogen ices induced by fast heavy-ion impact. <i>Journal of Mass Spectrometry</i> , 2008, 43, 1521-1530.	1.6	15
15	Astrophysical Icy Surface Simulation under Energetic Particles and Radiation Field in Formic Acid. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11954-11961.	3.1	26
16	Characterization of (NH ₃) _n ⁺ Clusters Produced by ²⁵² Cf Fragments Impact onto a NH ₃ Condensed Target. <i>Journal of Physical Chemistry A</i> , 2007, 111, 8302-8307.	2.5	8
17	Fragmentation of (LiF) _n ⁺ clusters in the acceleration region of TOF spectrometers. <i>Journal of Mass Spectrometry</i> , 2007, 42, 1300-1309.	1.6	11
18	Secondary ion emission induced by fission fragment impact in CO-NH ₃ and CO-NH ₃ -H ₂ O ices: modification in the CO-NH ₃ ice structure. <i>Journal of Mass Spectrometry</i> , 2007, 42, 1333-1341.	1.6	5

#	ARTICLE	IF	CITATIONS
19	Plasma Desorption Mass Spectrometry analysis of HCOOH ice. Journal of Electron Spectroscopy and Related Phenomena, 2007, 155, 124-128.	1.7	17
20	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
21	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
22	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
23	Secondary ion emission from condensed CO bombarded by fission fragments. International Journal of Mass Spectrometry, 2006, 251, 1-9.	1.5	31
24	Electronic Sputtering Analysis of Astrophysical Ices. Earth, Moon and Planets, 2005, 97, 311-329.	0.6	37