

Manoel G Homem

List of Publications by Year in descending order

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papers

971
citations

331538

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501076

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62
all docs

62
docs citations

62
times ranked

572
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymeric nanowrinkles: surface modification of polypropylene films in the VUV energy range. Journal of Materials Science, 2021, 56, 9532-9543.	1.7	2
2	Analysis of microbial lipids deposited on Mars Global Simulant (MGS-1) by geomatrix-assisted laser desorption/ionization-mass spectrometry. International Journal of Astrobiology, 2021, 20, 234-240.	0.9	1
3	Elastic electron collisions with trimethyl phosphate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 075203.	0.6	1
4	Elastic and absorption electron collisions with acetaldehyde. European Physical Journal D, 2021, 75, 1.	0.6	1
5	Cross Sections and Asymmetry Parameters for Formic Acid in the Vacuum-Ultraviolet Energy Range. Journal of Physical Chemistry A, 2020, 124, 6478-6485.	1.1	2
6	The electronic excited states of dichloromethane in the 5.8-10.8 eV energy range investigated by experimental and theoretical methods. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107172.	1.1	3
7	Elastic electron scattering from chlorobenzene. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 54, 035201.	0.6	1
8	Absolute ionization and dissociation cross sections of tetrahydrofuran: Fragmentation-ion production mechanisms. Journal of Chemical Physics, 2019, 151, .	1.2	10
9	Photoabsorption and Photoionization Cross Sections of Pyridine in the Vacuum-Ultraviolet Energy Range. Journal of Physical Chemistry A, 2019, 123, 5164-5170.	1.1	3
10	Elastic scattering of electrons from chloroform. Physical Review A, 2019, 100, .	1.0	5
11	Low to intermediate energy elastic electron scattering from dichloromethane (CH_2Cl_2). Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 025204.	0.6	8
12	Elastic electron scattering from formamide. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 095201.	0.6	4
13	Volatile organic compounds stability at exoplanetary atmospheres. Proceedings of the International Astronomical Union, 2018, 14, 273-275.	0.0	0
14	Photoabsorption and photoionization cross sections for formaldehyde in the vacuum-ultraviolet energy range. Journal of Chemical Physics, 2017, 146, .	1.2	11
15	Electron interaction with dimethyl disulfide in the low- and intermediate-energy range. Physical Review A, 2016, 94, .	1.0	8
16	Electron collisions with small esters: A joint experimental-theoretical investigation. Physical Review A, 2016, 93, .	1.0	7
17	Theoretical and experimental investigation of electron collisions with acetone. Physical Review A, 2015, 92, .	1.0	11
18	Theoretical and experimental investigation of electron collisions with dimethyl sulfide. Physical Review A, 2015, 91, .	1.0	12

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19	Electron collisions with ammonia and formamide in the low- and intermediate-energy ranges. <i>Physical Review A</i> , 2014, 90, .	1.0	22
20	Photostability studies of prebiotic molecules at the VUV region. <i>Journal of Physics: Conference Series</i> , 2014, 488, 022035.	0.3	0
21	Cross sections for electron collisions with dimethyl ether. <i>Physical Review A</i> , 2013, 88, .	1.0	22
22	Experimental and theoretical investigations on photoabsorption and photoionization of trimethylphosphate in the vacuum-ultraviolet energy range. <i>Journal of Chemical Physics</i> , 2012, 137, 184305.	1.2	7
23	Electron scattering by methanol and ethanol: A joint theoretical-experimental investigation. <i>Journal of Chemical Physics</i> , 2012, 136, 114311.	1.2	34
24	Photostability of amino acids to Lyman $\hat{\pm}$ radiation: Glycine. <i>International Journal of Mass Spectrometry</i> , 2011, 306, 77-81.	0.7	10
25	Production of highly charged Ne ions by synchrotron radiation. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011, 184, 38-42.	0.8	8
26	Cross sections for elastic electron scattering by tetramethylsilane in the intermediate-energy range. <i>Physical Review A</i> , 2011, 84, .	1.0	7
27	Absorption effects in electron-sulfur-dioxide collisions. <i>Physical Review A</i> , 2011, 84, .	1.0	16
28	Cross sections for electron scattering by methanol in the intermediate-energy range. <i>Physical Review A</i> , 2011, 83, .	1.0	20
29	Role of adsorption effects on absolute electron-molecule cross-section calibration using the relative flow technique. <i>Review of Scientific Instruments</i> , 2011, 82, 013109.	0.6	24
30	Cross sections for electron scattering by propane in the low- and intermediate-energy ranges. <i>Physical Review A</i> , 2010, 82, .	1.0	25
31	Description and performance of an electron-ion coincidence TOF spectrometer used at the Brazilian synchrotron facility LNL. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 180, 6-13.	0.8	47
32	Cross sections for electron scattering by ethane in the low- and intermediate-energy ranges. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 225202.	0.6	24
33	Frozen methanol bombarded by energetic particles: Relevance to solid state astrochemistry. <i>Surface Science</i> , 2009, 603, 1190-1196.	0.8	21
34	Cross sections for elastic electron collisions with tetrahydrofuran. <i>Physical Review A</i> , 2009, 80, .	1.0	31
35	Cross-section measurements of photoabsorption and ionization quantum yields for tetrahydrofuran in the vacuum-ultraviolet energy range. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 235204.	0.6	7
36	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.	0.7	15

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37	Dissociative photoionization of the tetramethyl silane molecule, Si(CH ₃) ₄ , around the Si 1s edge. International Journal of Mass Spectrometry, 2008, 278, 32-37.	0.7	4
38	Astrophysical Icy Surface Simulation under Energetic Particles and Radiation Field in Formic Acid. Journal of Physical Chemistry C, 2008, 112, 11954-11961.	1.5	26
39	A synchrotron beamline for delivering high purity vacuum ultraviolet photons. Review of Scientific Instruments, 2007, 78, 115104.	0.6	37
40	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.	0.7	5
41	Delivering high-purity vacuum ultraviolet photons at the Brazilian toroidal grating monochromator (TGM) beamline. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 168-171.	0.8	45
42	Plasma Desorption Mass Spectrometry analysis of HCOOH ice. Journal of Electron Spectroscopy and Related Phenomena, 2007, 155, 124-128.	0.8	17
43	Multiple photoionization of Ar in the K-edge region: New results. Journal of Electron Spectroscopy and Related Phenomena, 2007, 155, 109-112.	0.8	6
44	Site selective dissociation of ozone upon core excitation. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 245-249.	0.8	5
45	Hybrid molecular ions emitted from CO ₂ /NH ₃ ice bombarded by fission fragments. International Journal of Mass Spectrometry, 2007, 262, 195-202.	0.7	9
46	Gas phase photoabsorption and mass spectra of l-alanine and l-proline in the soft X-ray region. Chemical Physics, 2006, 324, 420-424.	0.9	36
47	Ion cluster desorption from frozen NH ₃ induced by impact of fast multi-charged ions. International Journal of Mass Spectrometry, 2006, 253, 112-121.	0.7	30
48	Electronic sputtering produced by fission fragments on condensed CO and CO ₂ . Journal of the American Society for Mass Spectrometry, 2006, 17, 1120-1128.	1.2	25
49	Secondary ion emission from condensed CO bombarded by fission fragments. International Journal of Mass Spectrometry, 2006, 251, 1-9.	0.7	31
50	SYNCHROTRON-RADIATION-BASED RECOIL ION MOMENTUM SPECTROSCOPY OF LASER COOLED AND TRAPPED CESIUM ATOMS. , 2006, , .		0
51	Advances on the Brazilian toroidal grating monochromator (TGM) beamline. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 1125-1127.	0.8	26
52	Electronic Sputtering Analysis of Astrophysical Ices. Earth, Moon and Planets, 2005, 97, 311-329.	0.3	37
53	Photoabsorption and photoionization studies of the amino acid proline in the VUV region. Brazilian Journal of Physics, 2005, 35, 940-944.	0.7	23
54	Experimental study on electron-hexafluoroethane (C ₂ F ₆) collisions in the low- and intermediate-energy ranges. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 3477-3487.	0.6	6

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55	An experimental study on elastic electron-trifluoromethane (CHF ₃) scattering in the low and intermediate energy ranges. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 2319-2326.	0.6	7
56	Relativistic and Interchannel Coupling Effects in Photoionization Angular Distributions By Synchrotron Spectroscopy of Laser Cooled Atoms. Physical Review Letters, 2004, 93, 183001.	2.9	5
57	Elastic and absorption cross sections for electron scattering by ethylene in the intermediate energy range. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 471-483.	0.6	15
58	Cross sections for elastic electron-hydrogen sulfide collisions in the low- and intermediate-energy range. Physical Review A, 2003, 68, .	1.0	32
59	Elastic and absorption cross sections for electron-nitrous oxide collisions. Physical Review A, 2002, 65, .	1.0	21
60	Elastic and total cross sections for electron-carbonyl sulfide collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 3293-3305.	0.6	21
61	Elastic cross sections for e ⁻ -CH ₄ collisions at intermediate energies. Physical Review A, 2000, 61, .	1.0	47
62	Elastic and total cross sections for electron-carbon dioxide collisions in the intermediate energy range. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 4373-4388.	0.6	25