

Mrcio T Do N Varella

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

1,425
citations

21
h-index

31
g-index

106
ext. papers

1,559
ext. citations

2.9
avg, IF

4.47
L-index

#	Paper	IF	Citations
101	Formation of Temporary Negative Ions and Their Subsequent Fragmentation upon Electron Attachment to CoQ and CoQ H.. <i>ChemPhysChem</i> , 2022 , e202100834	3.2	0
100	Formation of Temporary Negative Ions and Their Subsequent Fragmentation upon Electron Attachment to CoQ and CoQ H.. <i>ChemPhysChem</i> , 2022 , 23, e202200094	3.2	
99	How the Size and Density of Charge-Transfer Excitons Depend on Heterojunction Architecture. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 5458-5474	3.8	3
98	Electron Driven Reactions in Tetrafluoroethane: Positive and Negative Ion Formation. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 1459-1468	3.5	1
97	Vibrational Excitation Cross-Section by Positron Impact: A Wave-Packet Dynamics Study. <i>Atoms</i> , 2021 , 9, 64	2.1	1
96	Anion states of halocamphor molecules: insights into chirally sensitive dissociative electron attachment. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 17616-17624	3.6	
95	Investigation of electron scattering asymmetries in halocamphors. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 182018	0.3	
94	Formation of resonances and anionic fragments upon electron attachment to benzaldehyde. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 8171-8181	3.6	4
93	Solvent effects on the shape resonances of uracil. <i>Journal of Chemical Physics</i> , 2020 , 152, 084301	3.9	6
92	Covalent bonds in positron dihalides. <i>Chemical Science</i> , 2020 , 11, 44-52	9.4	5
91	Shape Resonances and Elastic Cross Sections in Electron Scattering by CBr and CFI. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 8660-8667	2.8	1
90	Halogen loss induced by electron collisions in halouracils at low energies. <i>Journal of Physics: Conference Series</i> , 2020 , 1412, 182015	0.3	
89	Electron-Induced Reactions in 3-Bromopyruvic Acid. <i>Chemistry - A European Journal</i> , 2019 , 25, 5498-5506	4.8	6
88	On-the-fly dynamics simulations of transient anions. <i>Journal of Chemical Physics</i> , 2019 , 151, 224104	3.9	9
87	Electron-impact electronic-state excitation of para-benzoquinone. <i>Journal of Chemical Physics</i> , 2018 , 148, 124312	3.9	7
86	Total electron scattering cross sections from para-benzoquinone in the energy range 1-200 eV. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 22368-22378	3.6	20
85	Integral elastic, vibrational-excitation, electronic-state excitation, ionization, and total cross sections for electron scattering from para-benzoquinone. <i>Journal of Chemical Physics</i> , 2018 , 148, 204305	3.9	5

84	An investigation for elastic and electronically inelastic electron scattering from -benzoquinone. <i>Journal of Chemical Physics</i> , 2018 , 149, 174308	3.9	10
83	Binding Matter with Antimatter: The Covalent Positron Bond. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8859-8864	16.4	13
82	Binding Matter with Antimatter: The Covalent Positron Bond. <i>Angewandte Chemie</i> , 2018 , 130, 8997-9003	3.6	1
81	Transient negative ion spectrum of the cytosine-guanine pair. <i>European Physical Journal D</i> , 2017 , 71, 1	1.3	3
80	An experimental and theoretical investigation into the electronically excited states of para-benzoquinone. <i>Journal of Chemical Physics</i> , 2017 , 146, 184303	3.9	12
79	Transient anion spectra of the potential radiosensitizers 5-cyanateuracil and 5-thiocyanateuracil. <i>Journal of Chemical Physics</i> , 2017 , 147, 214310	3.9	4
78	How does methylation suppress the electron-induced decomposition of 1-methyl-nitroimidazoles?. <i>Journal of Chemical Physics</i> , 2017 , 147, 164310	3.9	13
77	Elastic scattering and vibrational excitation for electron impact on para-benzoquinone. <i>Journal of Chemical Physics</i> , 2017 , 147, 244304	3.9	10
76	The electron-furfural scattering dynamics for 63 energetically open electronic states. <i>Journal of Chemical Physics</i> , 2016 , 144, 124310	3.9	19
75	Integral elastic, electronic-state, ionization, and total cross sections for electron scattering with furfural. <i>Journal of Chemical Physics</i> , 2016 , 144, 144303	3.9	15
74	Theoretical and experimental study on electron interactions with chlorobenzene: Shape resonances and differential cross sections. <i>Journal of Chemical Physics</i> , 2016 , 145, 084311	3.9	7
73	Precursor anion states in dissociative electron attachment to chlorophenol isomers. <i>Journal of Chemical Physics</i> , 2016 , 145, 044310	3.9	6
72	Theoretical and experimental differential cross sections for electron impact excitation of the electronic bands of furfural. <i>Journal of Chemical Physics</i> , 2016 , 144, 124309	3.9	11
71	Free energy barrier for dissociation of the guanosine monophosphate anion in water. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	9
70	Electron scattering by biomass molecular fragments: useful data for plasma applications?. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	27
69	Negative ion states of 5-bromouracil and 5-iodouracil. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 17231-8	3.8	17
68	Recent advances in the application of the Schwinger multichannel method with pseudopotentials to electron-molecule collisions. <i>European Physical Journal D</i> , 2015 , 69, 1	1.3	86
67	Electron collisions with phenol: Total, integral, differential, and momentum transfer cross sections and the role of multichannel coupling effects on the elastic channel. <i>Journal of Chemical Physics</i> , 2015 , 142, 104304	3.9	39

66	Differential cross sections for electron impact excitation of the electronic bands of phenol. <i>Journal of Chemical Physics</i> , 2015 , 142, 104305	3.9	23
65	Intermediate energy electron impact excitation of composite vibrational modes in phenol. <i>Journal of Chemical Physics</i> , 2015 , 142, 194302	3.9	11
64	Anion states and fragmentation of 2-chloroadenine upon low-energy electron collisions. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28958-65	3.6	17
63	Electronic excitation of furfural as probed by high-resolution vacuum ultraviolet spectroscopy, electron energy loss spectroscopy, and ab initio calculations. <i>Journal of Chemical Physics</i> , 2015 , 143, 144308	3.9	18
62	Excitation of vibrational quanta in furfural by intermediate-energy electrons. <i>Journal of Chemical Physics</i> , 2015 , 143, 224304	3.9	9
61	Potential energy surfaces for anion states of 5-chlorouracil. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 072086	0.3	
60	Positron-molecule interactions: theory and computation. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 032119	0.3	
59	Elastic scattering of slow electrons by n-pentanol alcohol. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	11
58	Calculation of positron binding energies of amino acids with the any-particle molecular-orbital approach. <i>Physical Review A</i> , 2014 , 89,	2.6	26
57	Electron driven reactions in sulphur containing analogues of uracil: the case of 2-thiouracil. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25054-61	3.6	17
56	Shape resonance spectra of uracil, 5-fluorouracil, and 5-chlorouracil. <i>Journal of Chemical Physics</i> , 2014 , 140, 024317	3.9	36
55	Interaction of low-energy electrons with dimethyl sulfide and dimethyl disulfide. <i>Physical Review A</i> , 2014 , 90,	2.6	6
54	Calculation of positron binding energies using the generalized any particle propagator theory. <i>Journal of Chemical Physics</i> , 2014 , 141, 114103	3.9	26
53	Communication: Transient anion states of phenol(HD) _n (n = 1, 2) complexes: search for microsolvation signatures. <i>Journal of Chemical Physics</i> , 2014 , 141, 051105	3.9	13
52	Electron collisions with ethylene: The role of multichannel-coupling effects. <i>Physical Review A</i> , 2014 , 90,	2.6	15
51	An experimental and theoretical investigation into the excited electronic states of phenol. <i>Journal of Chemical Physics</i> , 2014 , 141, 074314	3.9	32
50	Low-energy positron scattering from iodomethane. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013 , 46, 175202	1.3	7
49	Low-energy electron scattering by cellulose and hemicellulose components. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 1682-9	3.6	43

48	Low-energy electron collisions with thiophene. <i>Journal of Chemical Physics</i> , 2013 , 138, 194306	3.9	11
47	Electron collisions with the HCOOH...(H ₂ O) _n complexes (n = 1, 2) in liquid phase: the influence of microsolvation on the π resonance of formic acid. <i>Journal of Chemical Physics</i> , 2013 , 138, 174307	3.9	20
46	Positron and electron collisions with nitrous oxide: Measured and calculated cross sections. <i>Physical Review A</i> , 2013 , 88,	2.6	12
45	Cross sections for positron scattering from ethane. <i>Physical Review A</i> , 2013 , 87,	2.6	10
44	Positron collisions with ethene. <i>Physical Review A</i> , 2012 , 86,	2.6	10
43	Shape resonance spectra of lignin subunits. <i>Physical Review A</i> , 2012 , 86,	2.6	24
42	Positron scattering from methane. <i>Physical Review A</i> , 2012 , 85,	2.6	28
41	Low-energy electron collisions with glycine. <i>Journal of Chemical Physics</i> , 2012 , 136, 084307	3.9	48
40	Positron interactions with molecules. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 012019	0.3	
39	Positron scattering from the cyclic ethers oxirane, 1,4-dioxane, and tetrahydropyran. <i>Journal of Chemical Physics</i> , 2012 , 136, 124305	3.9	14
38	Multimode vibrational couplings in resonant positron annihilation. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 072010	0.3	
37	An experimental and theoretical investigation into positron and electron scattering from formaldehyde. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 195202	1.3	21
36	Electron collisions with hydrogen-bonded complexes. <i>Physical Review A</i> , 2011 , 84,	2.6	6
35	Multimode vibrational couplings in resonant positron annihilation. <i>Physical Review Letters</i> , 2011 , 107, 103201	7.4	14
34	Near-threshold vibrational excitation of acetylene by positron impact. <i>Physical Review A</i> , 2010 , 81,	2.6	7
33	Electron collisions with alpha-D-glucose and beta-D-glucose monomers. <i>Journal of Chemical Physics</i> , 2010 , 132, 124309	3.9	5
32	Low-energy electron collisions with pyrrole. <i>Journal of Chemical Physics</i> , 2010 , 132, 204301	3.9	20
31	Low-energy electron collisions with acetic acid. <i>Physical Review A</i> , 2009 , 79,	2.6	9

30	Feshbach projection operator approach to positron annihilation. <i>Physical Review A</i> , 2009 , 80,	2.6	17
29	Feshbach projection operator approach to positron annihilation. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 072008	0.3	
28	Transient ions in electron and positron scattering. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 012035	3.3	
27	Elastic scattering of slow electrons by n-propanol and n-butanol. <i>Physical Review A</i> , 2008 , 78,	2.6	28
26	Comparative study of electron and positron scattering by H ₂ : The role of the $\bar{\nu}+2$ Feshbach resonance. <i>Physical Review A</i> , 2008 , 78,	2.6	6
25	Near threshold vibrational excitation of molecules by positron impact: A projection operator approach. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 435-440	1.2	10
24	Real-time observation of intramolecular proton transfer in the electronic ground state of chloromalonaldehyde: an ab initio study of time-resolved photoelectron spectra. <i>Journal of Chemical Physics</i> , 2007 , 126, 054303	3.9	13
23	Near-threshold vibrational excitation of H ₂ by positron impact: A projection-operator approach. <i>Physical Review A</i> , 2007 , 76,	2.6	18
22	Time-resolved photoelectron spectroscopy of proton transfer in the ground state of chloromalonaldehyde: wave-packet dynamics on effective potential surfaces of reduced dimensionality. <i>Journal of Chemical Physics</i> , 2006 , 124, 154302	3.9	14
21	Similarities and differences in e ⁺ -molecule scattering: Applications of the Schwinger multichannel method. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 247, 13-19	1.2	18
20	Cross-sections for rotational excitations of C ₃ H ₄ isomers by electron impact. <i>European Physical Journal D</i> , 2006 , 37, 385-392	1.3	4
19	Real-time observation of ground state proton transfer: a model study. <i>Chemical Physics</i> , 2005 , 311, 255-268	8	9
18	Electronic excitation of CO by positron impact. <i>Physical Review A</i> , 2005 , 72,	2.6	7
17	Electronic excitation of N ₂ by positron impact. <i>Physical Review A</i> , 2004 , 69,	2.6	27
16	Positron impact electronic excitation of N ₂ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 221, 69-75	1.2	21
15	Low Energy Positron Scattering by SF ₆ and CO ₂ . <i>Physica Scripta</i> , 2004 , 110, 276	2.6	7
14	Polarization effects in the elastic scattering of low-energy electrons by XH ₄ (X=C,Si,Ge,Sn,Pb). <i>Physical Review A</i> , 2003 , 68,	2.6	9
13	Elastic positron scattering by C ₂ H ₂ : Differential cross sections and virtual state formation. <i>Physical Review A</i> , 2003 , 68,	2.6	25

12	The Schwinger multichannel method (SMC) calculations for Zeff were off by a factor of Z. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002 , 192, 225-237	1.2	25
11	Low-energy electron scattering by CH ₃ F, CH ₂ F ₂ , CHF ₃ , and CF ₄ . <i>Physical Review A</i> , 2002 , 65,	2.6	34
10	Effective configurations in positron-molecule scattering. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002 , 35, 3531-3538	1.3	4
9	Annihilation probability density in positron scattering by He. <i>Physical Review A</i> , 2001 , 63,	2.6	4
8	Applications of the Schwinger Multichannel method with pseudopotentials to electron scattering from polyatomic molecules II: rotational excitation cross sections. <i>Brazilian Journal of Physics</i> , 2001 , 31, 21-29	1.2	6
7	Progress with the Schwinger multichannel method in positron-molecule scattering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000 , 171, 33-46	1.2	44
6	Cross sections for elastic scattering of low-energy electrons by trimethylarsine (TMAs). <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999 , 32, 2031-2039	1.3	3
5	Elastic and rotationally inelastic cross sections for low-energy electron scattering by SO ₂ molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999 , 32, 5523-5538	1.3	14
4	Cross sections for rotational excitations of NH ₃ , PH ₃ , AsH ₃ , and SbH ₃ by electron impact. <i>Journal of Chemical Physics</i> , 1999 , 110, 2452-2464	3.9	33
3	Low-energy electron scattering by H ₂ O, H ₂ S, H ₂ Se, and H ₂ Te. <i>Journal of Chemical Physics</i> , 1999 , 111, 6396-6406	3.9	58
2	Low-energy electron scattering by CF ₄ , CCl ₄ , SiCl ₄ , SiBr ₄ , and SiI ₄ . <i>Physical Review A</i> , 1999 , 60, 3684-3693.	2.6	22
1	Elastic scattering of low-energy electrons by ozone. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998 , 31, 4419-4426	1.3	6