

# Mrcio T Do N Varella

## List of Publications by Citations

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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	Recent advances in the application of the Schwinger multichannel method with pseudopotentials to electron-molecule collisions. <i>European Physical Journal D</i> , <b>2015</b> , 69, 1	1.3	86
100	Low-energy electron scattering by H <sub>2</sub> O, H <sub>2</sub> S, H <sub>2</sub> Se, and H <sub>2</sub> Te. <i>Journal of Chemical Physics</i> , <b>1999</b> , 111, 6396-6406	3.9	58
99	Low-energy electron collisions with glycine. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 084307	3.9	48
98	Progress with the Schwinger multichannel method in positron-molecule scattering. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2000</b> , 171, 33-46	1.2	44
97	Low-energy electron scattering by cellulose and hemicellulose components. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 1682-9	3.6	43
96	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> , <b>2015</b> , 142, 104304	3.9	39
95	Shape resonance spectra of uracil, 5-fluorouracil, and 5-chlorouracil. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 024317	3.9	36
94	Low-energy electron scattering by CH <sub>3</sub> F, CH <sub>2</sub> F <sub>2</sub> , CHF <sub>3</sub> , and CF <sub>4</sub> . <i>Physical Review A</i> , <b>2002</b> , 65,	2.6	34
93	Cross sections for rotational excitations of NH <sub>3</sub> , PH <sub>3</sub> , AsH <sub>3</sub> , and SbH <sub>3</sub> by electron impact. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 2452-2464	3.9	33
92	An experimental and theoretical investigation into the excited electronic states of phenol. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 074314	3.9	32
91	Positron scattering from methane. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	28
90	Elastic scattering of slow electrons by n-propanol and n-butanol. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	28
89	Electronic excitation of N <sub>2</sub> by positron impact. <i>Physical Review A</i> , <b>2004</b> , 69,	2.6	27
88	Electron scattering by biomass molecular fragments: useful data for plasma applications?. <i>European Physical Journal D</i> , <b>2016</b> , 70, 1	1.3	27
87	Calculation of positron binding energies of amino acids with the any-particle molecular-orbital approach. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	26
86	Calculation of positron binding energies using the generalized any particle propagator theory. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 114103	3.9	26
85	The Schwinger multichannel method (SMC) calculations for Z <sub>eff</sub> were off by a factor of Z. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 192, 225-237	1.2	25

84	Elastic positron scattering by C <sub>2</sub> H <sub>2</sub> : Differential cross sections and virtual state formation. <i>Physical Review A</i> , <b>2003</b> , 68,	2.6	25
83	Shape resonance spectra of lignin subunits. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	24
82	Differential cross sections for electron impact excitation of the electronic bands of phenol. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 104305	3.9	23
81	Low-energy electron scattering by CF <sub>4</sub> , CCl <sub>4</sub> , SiCl <sub>4</sub> , SiBr <sub>4</sub> , and SiI <sub>4</sub> . <i>Physical Review A</i> , <b>1999</b> , 60, 3684-3693.	3.6	22
80	An experimental and theoretical investigation into positron and electron scattering from formaldehyde. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2011</b> , 44, 195202	1.3	21
79	Positron impact electronic excitation of N <sub>2</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2004</b> , 221, 69-75	1.2	21
78	Total electron scattering cross sections from para-benzoquinone in the energy range 1-200 eV. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 22368-22378	3.6	20
77	Electron collisions with the HCOOH⋯(H <sub>2</sub> O) <sub>n</sub> complexes (n = 1, 2) in liquid phase: the influence of microsolvation on the π resonance of formic acid. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 174307	3.9	20
76	Low-energy electron collisions with pyrrole. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 204301	3.9	20
75	The electron-furfural scattering dynamics for 63 energetically open electronic states. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 124310	3.9	19
74	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> , <b>2015</b> , 143, 144308	3.9	18
73	Near-threshold vibrational excitation of H <sub>2</sub> by positron impact: A projection-operator approach. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	18
72	Similarities and differences in e <sup>-</sup> H <sub>2</sub> molecule scattering: Applications of the Schwinger multichannel method. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 247, 13-19	1.2	18
71	Negative ion states of 5-bromouracil and 5-iodouracil. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 172318	3.6	17
70	Anion states and fragmentation of 2-chloroadenine upon low-energy electron collisions. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 28958-65	3.6	17
69	Electron driven reactions in sulphur containing analogues of uracil: the case of 2-thiouracil. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 25054-61	3.6	17
68	Feshbach projection operator approach to positron annihilation. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	17
67	Electron collisions with ethylene: The role of multichannel-coupling effects. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	15

66	Integral elastic, electronic-state, ionization, and total cross sections for electron scattering with furfural. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 144303	3.9	15
65	Multimode vibrational couplings in resonant positron annihilation. <i>Physical Review Letters</i> , <b>2011</b> , 107, 103201	7.4	14
64	Positron scattering from the cyclic ethers oxirane, 1,4-dioxane, and tetrahydropyran. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 124305	3.9	14
63	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> , <b>2006</b> , 124, 154302	3.9	14
62	Elastic and rotationally inelastic cross sections for low-energy electron scattering by SO <sub>2</sub> molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>1999</b> , 32, 5523-5538	1.3	14
61	How does methylation suppress the electron-induced decomposition of 1-methyl-nitroimidazoles?. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 164310	3.9	13
60	Communication: Transient anion states of phenol(H <sub>2</sub> O) <sub>n</sub> (n = 1, 2) complexes: search for microsolvation signatures. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 051105	3.9	13
59	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> , <b>2007</b> , 126, 054303	3.9	13
58	Binding Matter with Antimatter: The Covalent Positron Bond. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 8859-8864	16.4	13
57	An experimental and theoretical investigation into the electronically excited states of para-benzoquinone. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 184303	3.9	12
56	Positron and electron collisions with nitrous oxide: Measured and calculated cross sections. <i>Physical Review A</i> , <b>2013</b> , 88,	2.6	12
55	Intermediate energy electron impact excitation of composite vibrational modes in phenol. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 194302	3.9	11
54	Elastic scattering of slow electrons by n-pentanol alcohol. <i>European Physical Journal D</i> , <b>2014</b> , 68, 1	1.3	11
53	Low-energy electron collisions with thiophene. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 194306	3.9	11
52	Theoretical and experimental differential cross sections for electron impact excitation of the electronic bands of furfural. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 124309	3.9	11
51	Elastic scattering and vibrational excitation for electron impact on para-benzoquinone. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 244304	3.9	10
50	Positron collisions with ethene. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	10
49	Cross sections for positron scattering from ethane. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	10

48	Near threshold vibrational excitation of molecules by positron impact: A projection operator approach. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 435-440	1.2	10
47	An investigation for elastic and electronically inelastic electron scattering from -benzoquinone. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 174308	3.9	10
46	Excitation of vibrational quanta in furfural by intermediate-energy electrons. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 224304	3.9	9
45	Low-energy electron collisions with acetic acid. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	9
44	Polarization effects in the elastic scattering of low-energy electrons by XH4 (X=C,Si,Ge,Sn,Pb). <i>Physical Review A</i> , <b>2003</b> , 68,	2.6	9
43	Real-time observation of ground state proton transfer: a model study. <i>Chemical Physics</i> , <b>2005</b> , 311, 255-268		9
42	Free energy barrier for dissociation of the guanosine monophosphate anion in water. <i>European Physical Journal D</i> , <b>2016</b> , 70, 1	1.3	9
41	On-the-fly dynamics simulations of transient anions. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 224104	3.9	9
40	Electron-impact electronic-state excitation of para-benzoquinone. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 124312	3.9	7
39	Low-energy positron scattering from iodomethane. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2013</b> , 46, 175202	1.3	7
38	Near-threshold vibrational excitation of acetylene by positron impact. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	7
37	Low Energy Positron Scattering by SF6 and CO2. <i>Physica Scripta</i> , <b>2004</b> , 110, 276	2.6	7
36	Electronic excitation of CO by positron impact. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	7
35	Theoretical and experimental study on electron interactions with chlorobenzene: Shape resonances and differential cross sections. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 084311	3.9	7
34	Electron-Induced Reactions in 3-Bromopyruvic Acid. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 5498-5506	4.8	6
33	Solvent effects on the $\pi$ shape resonances of uracil. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 084301	3.9	6
32	Interaction of low-energy electrons with dimethyl sulfide and dimethyl disulfide. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	6
31	Electron collisions with hydrogen-bonded complexes. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	6

30	Comparative study of electron and positron scattering by H <sub>2</sub> : The role of the $\bar{u}+2$ Feshbach resonance. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	6
29	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> , <b>2001</b> , 31, 21-29	1.2	6
28	Elastic scattering of low-energy electrons by ozone. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>1998</b> , 31, 4419-4426	1.3	6
27	Precursor anion states in dissociative electron attachment to chlorophenol isomers. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 044310	3.9	6
26	Integral elastic, vibrational-excitation, electronic-state excitation, ionization, and total cross sections for electron scattering from para-benzoquinone. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 204305	3.9	5
25	Electron collisions with alpha-D-glucose and beta-D-glucose monomers. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 124309	3.9	5
24	Covalent bonds in positron dihalides. <i>Chemical Science</i> , <b>2020</b> , 11, 44-52	9.4	5
23	Formation of resonances and anionic fragments upon electron attachment to benzaldehyde. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 8171-8181	3.6	4
22	Transient anion spectra of the potential radiosensitizers 5-cyanateuracil and 5-thiocyanateuracil. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 214310	3.9	4
21	Cross-sections for rotational excitations of C <sub>3</sub> H <sub>4</sub> isomers by electron impact. <i>European Physical Journal D</i> , <b>2006</b> , 37, 385-392	1.3	4
20	Annihilation probability density in positron scattering by He. <i>Physical Review A</i> , <b>2001</b> , 63,	2.6	4
19	Effective configurations in positron-molecule scattering. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2002</b> , 35, 3531-3538	1.3	4
18	Transient negative ion spectrum of the cytosine-guanine pair. <i>European Physical Journal D</i> , <b>2017</b> , 71, 1	1.3	3
17	Cross sections for elastic scattering of low-energy electrons by trimethylarsine (TMAs). <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>1999</b> , 32, 2031-2039	1.3	3
16	How the Size and Density of Charge-Transfer Excitons Depend on Heterojunction Architecture. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 5458-5474	3.8	3
15	Shape Resonances and Elastic Cross Sections in Electron Scattering by CBr and CFI. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 8660-8667	2.8	1
14	Electron Driven Reactions in Tetrafluoroethane: Positive and Negative Ion Formation. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 1459-1468	3.5	1
13	Binding Matter with Antimatter: The Covalent Positron Bond. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 8997-9003	3.6	1

12	Vibrational Excitation Cross-Section by Positron Impact: A Wave-Packet Dynamics Study. <i>Atoms</i> , <b>2021</b> , 9, 64	2.1	1
11	Formation of Temporary Negative Ions and Their Subsequent Fragmentation upon Electron Attachment to CoQ and CoQ H.. <i>ChemPhysChem</i> , <b>2022</b> , e202100834	3.2	0
10	Investigation of electron scattering asymmetries in halocamphors. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1412, 182018	0.3	
9	Potential energy surfaces for anion states of 5-chlorouracil. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 072086	0.3	
8	Positron-molecule interactions: theory and computation. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 032119	0.3	
7	Positron interactions with molecules. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 012019	0.3	
6	Multimode vibrational couplings in resonant positron annihilation. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 388, 072010	0.3	
5	Feshbach projection operator approach to positron annihilation. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 072008	0.3	
4	Transient ions in electron and positron scattering. <i>Journal of Physics: Conference Series</i> , <b>2009</b> , 194, 012035	0.3	
3	Halogen loss induced by electron collisions in halouracils at low energies. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1412, 182015	0.3	
2	Anion states of halocamphor molecules: insights into chirally sensitive dissociative electron attachment. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 17616-17624	3.6	
1	Formation of Temporary Negative Ions and Their Subsequent Fragmentation upon Electron Attachment to CoQ and CoQ H.. <i>ChemPhysChem</i> , <b>2022</b> , 23, e202200094	3.2	