

# Romarly da Costa

## List of Publications by Year in descending order

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51  
papers

974  
citations

489802

18  
h-index

511568

30  
g-index

52  
all docs

52  
docs citations

52  
times ranked

442  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic positron-uracil scattering cross sections. <i>Physical Review A</i> , 2021, 103, .	1.0	1
2	Elastic and electronically inelastic electron collisions by the thiophene molecule. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	5
3	Electronic excitation of benzene by low energy electron impact and the role of higher lying Rydberg states. <i>European Physical Journal D</i> , 2021, 75, 1.	0.6	4
4	Electronic excitation of the $3B_2$ state of thiophene molecule by low-energy electron collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 085002.	0.6	5
5	Electron-impact electronic-state excitation of <i>para</i> -benzoquinone. <i>Journal of Chemical Physics</i> , 2018, 148, 124312.	1.2	11
6	An <i>ab initio</i> investigation for elastic and electronically inelastic electron scattering from <i>para</i> -benzoquinone. <i>Journal of Chemical Physics</i> , 2018, 149, 174308.	1.2	17
7	Total electron scattering cross sections from <i>para</i> -benzoquinone in the energy range 1â€“200 eV. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22368-22378.	1.3	27
8	Integral elastic, vibrational-excitation, electronic-state excitation, ionization, and total cross sections for electron scattering from <i>para</i> -benzoquinone. <i>Journal of Chemical Physics</i> , 2018, 148, 204305.	1.2	7
9	An experimental and theoretical investigation into the electronically excited states of <i>para</i> -benzoquinone. <i>Journal of Chemical Physics</i> , 2017, 146, 184303.	1.2	12
10	Elastic scattering and vibrational excitation for electron impact on <i>para</i> -benzoquinone. <i>Journal of Chemical Physics</i> , 2017, 147, 244304.	1.2	13
11	The electron-furfural scattering dynamics for 63 energetically open electronic states. <i>Journal of Chemical Physics</i> , 2016, 144, 124310.	1.2	23
12	Integral elastic, electronic-state, ionization, and total cross sections for electron scattering with furfural. <i>Journal of Chemical Physics</i> , 2016, 144, 144303.	1.2	16
13	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.	1.2	11
14	Electron scattering by biomass molecular fragments: useful data for plasma applications?. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	31
15	Electronic excitation of furfural as probed by high-resolution vacuum ultraviolet spectroscopy, electron energy loss spectroscopy, and <i>ab initio</i> calculations. <i>Journal of Chemical Physics</i> , 2015, 143, 144308.	1.2	19
16	Excitation of vibrational quanta in furfural by intermediate-energy electrons. <i>Journal of Chemical Physics</i> , 2015, 143, 224304.	1.2	9
17	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.	0.6	117
18	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.	1.2	44

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19	Differential cross sections for electron impact excitation of the electronic bands of phenol. Journal of Chemical Physics, 2015, 142, 104305.	1.2	25
20	Intermediate energy electron impact excitation of composite vibrational modes in phenol. Journal of Chemical Physics, 2015, 142, 194302.	1.2	12
21	Electron collisions with ethylene: The role of multichannel-coupling effects. Physical Review A, 2014, 90, .	1.0	18
22	An experimental and theoretical investigation into the excited electronic states of phenol. Journal of Chemical Physics, 2014, 141, 074314.	1.2	34
23	Elastic scattering of low-energy electrons by BF <sub>3</sub> . European Physical Journal D, 2014, 68, 1.	0.6	8
24	Low-energy electron scattering by cellulose and hemicellulose components. Physical Chemistry Chemical Physics, 2013, 15, 1682-1689.	1.3	49
25	Low-energy electron collisions with thiophene. Journal of Chemical Physics, 2013, 138, 194306.	1.2	12
26	Cross sections for below threshold electron excitation of furan. Journal of Physics: Conference Series, 2012, 388, 052055.	0.3	0
27	Low Energy Electron Scattering from Fuels. Journal of Physics: Conference Series, 2012, 388, 052075.	0.3	0
28	Low Energy Electron Scattering from Fuels. Journal of Physics: Conference Series, 2012, 388, 012014.	0.3	3
29	Electronic excitation of the B <sub>2</sub> state of furan by electron impact. Journal of Physics: Conference Series, 2012, 388, 012015.	0.3	1
30	Electron scattering by glycine and electron affinity in clusters gly-(H <sub>2</sub> O) <sub>n</sub> . Journal of Physics: Conference Series, 2012, 388, 052025.	0.3	0
31	Electronic excitation of gas-phase furan molecules by electron impact. Physical Review A, 2012, 85, .	1.0	22
32	Low-energy electron collisions with glycine. Journal of Chemical Physics, 2012, 136, 084307.	1.2	50
33	Low-energy elastic electron scattering from furan. Physical Review A, 2010, 81, .	1.0	24
34	Electron collisions with <sup>1</sup> H-D-glucose and <sup>2</sup> H-D-glucose monomers. Journal of Chemical Physics, 2010, 132, 124309.	1.2	6
35	Low-energy electron collisions with pyrrole. Journal of Chemical Physics, 2010, 132, 204301.	1.2	25
36	Low-energy electron collisions with acetic acid. Physical Review A, 2009, 79, .	1.0	10

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37	Low-energy electron scattering by pyrrole. Journal of Physics: Conference Series, 2009, 194, 052016.	0.3	0
38	Transient ions in electron and positron scattering. Journal of Physics: Conference Series, 2009, 194, 012035.	0.3	0
39	Elastic scattering of slow electrons by $n$ -propanol and $n$ -butanol. Physical Review A, 2008, 78, .	1.0	31
40	Low-energy electron scattering from methanol and ethanol. Physical Review A, 2008, 77, .	1.0	69
41	Polarization effects on electronic excitation of the $3\sigma_g$ state of $N_2$ . Physical Review A, 2008, 77, .	1.0	13
42	Polarization effects on low-energy electron collisions with propane. Physical Review A, 2008, 77, .	1.0	9
43	Polarization effects on electronic excitation of molecules by low-energy electron impact: Study on $2\sigma_g$ state of $F_2$ . Physical Review A, 2008, 77, .	1.0	20
44	Electron scattering from molecules: applications of the Schwinger multichannel method to $e^+CO$ and $e^+C_2H_4$ collisions. Journal of Physics: Conference Series, 2007, 88, 012028.	0.3	4
45	Electron-impact electronic excitation of molecular nitrogen using the Schwinger multichannel variational method. Physical Review A, 2007, 75, .	1.0	9
46	Excitation of the $1\sigma_g$ and $3\sigma_g$ electronic states of the nitrogen molecule by electron impact. International Journal of Quantum Chemistry, 2006, 106, 2664-2676.	1.0	14
47	Similarities and differences in $e^+$ molecule scattering: Applications of the Schwinger multichannel method. Nuclear Instruments & Methods in Physics Research B, 2006, 247, 13-19.	0.6	18
48	Cross sections for electron-impact excitation of the $H_2$ molecule using the MOB-SCI strategy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 4363-4378.	0.6	57
49	Electron-impact excitation of $H_2$ : minimal orbital basis for single configuration interaction. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, L129-L135.	0.6	46
50	A comparative study of elastic scattering of low-energy electrons by boron, aluminum and gallium trihalides. Journal of Chemical Physics, 2003, 118, 75-82.	1.2	13
51	Photoionization and pseudopotentials. Physical Review A, 2003, 67, .	1.0	0