Romarly da Costa

List of Publications by Year
in descending order

51	974	430843 18	454934 30
papers	citations	h-index	g-index

52	52	52	400
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent advances in the application of the Schwinger multichannel method with pseudopotentials to electron-molecule collisions. European Physical Journal D, 2015, 69, 1.	1.3	117
2	Low-energy electron scattering from methanol and ethanol. Physical Review A, 2008, 77, .	2.5	69
3	Cross sections for electron-impact excitation of the H2molecule using the MOB-SCI strategy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 4363-4378.	1.5	57
4	Low-energy electron collisions with glycine. Journal of Chemical Physics, 2012, 136, 084307.	3.0	50
5	Low-energy electron scattering by cellulose and hemicellulose components. Physical Chemistry Chemical Physics, 2013, 15, 1682-1689.	2.8	49
6	Electron-impact excitation of H2: minimal orbital basis for single configuration interaction. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, L129-L135.	1.5	46
7	Electron collisions with phenol: Total, integral, differential, and momentum transfer cross sections and the role of multichannel coupling effects on the elastic channel. Journal of Chemical Physics, 2015, 142, 104304.	3.0	44
8	An experimental and theoretical investigation into the excited electronic states of phenol. Journal of Chemical Physics, 2014, 141, 074314.	3.0	34
9	Elastic scattering of slow electrons by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-propanol and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-butanol. Physical Review A, 2008, 78, .	2.5	31
10	Electron scattering by biomass molecular fragments: useful data for plasma applications?. European Physical Journal D, 2016, 70, 1.	1.3	31
11	Total electron scattering cross sections from para-benzoquinone in the energy range 1â€“200 eV. Physical Chemistry Chemical Physics, 2018, 20, 22368-22378.	2.8	27
12	Low-energy electron collisions with pyrrole. Journal of Chemical Physics, 2010, 132, 204301.	3.0	25
13	Differential cross sections for electron impact excitation of the electronic bands of phenol. Journal of Chemical Physics, 2015, 142, 104305.	3.0	25
14	Low-energy elastic electron scattering from furan. Physical Review A, 2010, 81, .	2.5	24
15	The electron-furfural scattering dynamics for 63 energetically open electronic states. Journal of Chemical Physics, 2016, 144, 124310.	3.0	23
16	Electronic excitation of gas-phase furan molecules by electron impact. Physical Review A, 2012, 85, .	2.5	22
17	Polarization effects on electronic excitation of molecules by low-energy electron impact: Study on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>e</mml:mi><mml:mo>â^’</mml:mo></mml:msup></mml:mrow></mml:math>-furfural scattering. Physical Review A, 2008, 77, .	2.5	20
18	Electronic excitation of furfural as probed by high-resolution vacuum ultraviolet spectroscopy, electron energy loss spectroscopy, and ab initio calculations. Journal of Chemical Physics, 2015, 143, 144308.	3.0	19

#	Article	IF	Citations
19	Similarities and differences in eÂ±â€“molecule scattering: Applications of the Schwinger multichannel method. Nuclear Instruments & Methods in Physics Research B, 2006, 247, 13-19.	1.4	18
20	Electron collisions with ethylene: The role of multichannel-coupling effects. Physical Review A, 2014, 90, .	2.5	18
21	An ab initio investigation for elastic and electronically inelastic electron scattering from para-benzoquinone. Journal of Chemical Physics, 2018, 149, 174308.	3.0	17
22	Integral elastic, electronic-state, ionization, and total cross sections for electron scattering with furfural. Journal of Chemical Physics, 2016, 144, 144303.	3.0	16
23	Excitation of the a1Îg and B3Îg electronic states of the nitrogen molecule by electron impact. International Journal of Quantum Chemistry, 2006, 106, 2664-2676.	2.0	14
24	A comparative study of elastic scattering of low-energy electrons by boron, aluminum and gallium trihalides. Journal of Chemical Physics, 2003, 118, 75-82.	3.0	13
25	Polarization effects on electronic excitation of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mover accent="true"><mml:mi>a</mml:mi><mml:mo stretchy="false">ì</mml:mo></mml:mover><mml:mtext>â€‰</mml:mtext><mml:msub><mml:mrow><mml:mmultiscripts><mml:mi /><mml:none /><mml:mn>3</mml:mn></mml:mmultiscripts></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mi>u</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>	2.5	13
26	Elastic scattering and vibrational excitation for electron impact on para-benzoquinone. Journal of Chemical Physics, 2017, 147, 244304.	3.0	13
27	Low-energy electron collisions with thiophene. Journal of Chemical Physics, 2013, 138, 194306.	3.0	12
28	Intermediate energy electron impact excitation of composite vibrational modes in phenol. Journal of Chemical Physics, 2015, 142, 194302.	3.0	12
29	An experimental and theoretical investigation into the electronically excited states of para-benzoquinone. Journal of Chemical Physics, 2017, 146, 184303.	3.0	12
30	Theoretical and experimental differential cross sections for electron impact excitation of the electronic bands of furfural. Journal of Chemical Physics, 2016, 144, 124309.	3.0	11
31	Electron-impact electronic-state excitation of para-benzoquinone. Journal of Chemical Physics, 2018, 148, 124312.	3.0	11
32	Low-energy electron collisions with acetic acid. Physical Review A, 2009, 79, .	2.5	10
33	Electron-impact electronic excitation of molecular nitrogen using the Schwinger multichannel variational method. Physical Review A, 2007, 75, .	2.5	9
34	Polarization effects on low-energy electron collisions with propane. Physical Review A, 2008, 77, .	2.5	9
35	Excitation of vibrational quanta in furfural by intermediate-energy electrons. Journal of Chemical Physics, 2015, 143, 224304.	3.0	9
36	Elastic scattering of low-energy electrons by BF3. European Physical Journal D, 2014, 68, 1.	1.3	8

#	Article	IF	Citations
37	Integral elastic, vibrational-excitation, electronic-state excitation, ionization, and total cross sections for electron scattering from para-benzoquinone. Journal of Chemical Physics, 2018, 148, 204305.	3.0	7
38	Electron collisions with Î±-D-glucose and Î²-D-glucose monomers. Journal of Chemical Physics, 2010, 132, 124309.	3.0	6
39	Electronic excitation of the ³ B ₂ state of thiophene molecule by low-energy electron collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 085002.	1.5	5
40	Elastic and electronically inelastic electron collisions by the thiophene molecule. Journal of Applied Physics, 2021, 129, .	2.5	5
41	Electron scattering from molecules: applications of the Schwinger multichannel method to e^{â^'}â€“CO and e^{â^'}â€“C₂H₄collisions. Journal of Physics: Conference Series, 2007, 88, 012028.	0.4	4
42	Electronic excitation of benzene by low energy electron impact and the role of higher lying Rydberg states. European Physical Journal D, 2021, 75, 1.	1.3	4
43	Low Energy Electron Scattering from Fuels. Journal of Physics: Conference Series, 2012, 388, 012014.	0.4	3
44	Electronic excitation of thelB2state of furan by electron impact. Journal of Physics: Conference Series, 2012, 388, 012015.	0.4	1
45	Elastic positron-uracil scattering cross sections. Physical Review A, 2021, 103, .	2.5	1
46	Photoionization and pseudopotentials. Physical Review A, 2003, 67, .	2.5	0
47	Low-energy electron scattering by pyrrole. Journal of Physics: Conference Series, 2009, 194, 052016.	0.4	0
48	Transient ions in electron and positron scattering. Journal of Physics: Conference Series, 2009, 194, 012035.	0.4	0
49	Cross sections for below threshold electron excitation of furan. Journal of Physics: Conference Series, 2012, 388, 052055.	0.4	0
50	Low Energy Electron Scattering from Fuels. Journal of Physics: Conference Series, 2012, 388, 052075.	0.4	0
51	Electron scattering by glycine and electron affinity in clusters gly-(H2O)n. Journal of Physics: Conference Series, 2012, 388, 052025.	0.4	0