

Marco A Lima

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.

156 papers	3,444 citations	32 h-index	47 g-index
160 ext. papers	3,589 ext. citations	2.5 avg, IF	4.81 L-index

#	Paper	IF	Citations
156	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	1.3	0
155	Electronic excitation of ethanol by low-energy electron impact. <i>Journal of Chemical Physics</i> , 2020 , 152, 244302	3.9	5
154	Electron-impact electronic-state excitation of para-benzoquinone. <i>Journal of Chemical Physics</i> , 2018 , 148, 124312	3.9	7
153	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
152	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
151	An investigation for elastic and electronically inelastic electron scattering from -benzoquinone. <i>Journal of Chemical Physics</i> , 2018 , 149, 174308	3.9	10
150	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
149	Elastic scattering and vibrational excitation for electron impact on para-benzoquinone. <i>Journal of Chemical Physics</i> , 2017 , 147, 244304	3.9	10
148	The electron-furfural scattering dynamics for 63 energetically open electronic states. <i>Journal of Chemical Physics</i> , 2016 , 144, 124310	3.9	19
147	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
146	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
145	Electron scattering by biomass molecular fragments: useful data for plasma applications?. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	27
144	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
143	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
142	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
141	Intermediate energy electron impact excitation of composite vibrational modes in phenol. <i>Journal of Chemical Physics</i> , 2015 , 142, 194302	3.9	11
140	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

139	Excitation of vibrational quanta in furfural by intermediate-energy electrons. <i>Journal of Chemical Physics</i> , 2015 , 143, 224304	3.9	9
138	Elastic scattering of low-energy electrons by BF ₃ . <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	7
137	Elastic scattering of slow electrons by n-pentanol alcohol. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	11
136	Communication: Transient anion states of phenol(H ₂ O) _n (n = 1, 2) complexes: search for microsolvation signatures. <i>Journal of Chemical Physics</i> , 2014 , 141, 051105	3.9	13
135	Electron collisions with ethylene: The role of multichannel-coupling effects. <i>Physical Review A</i> , 2014 , 90,	2.6	15
134	An experimental and theoretical investigation into the excited electronic states of phenol. <i>Journal of Chemical Physics</i> , 2014 , 141, 074314	3.9	32
133	Low-energy positron scattering from iodomethane. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013 , 46, 175202	1.3	7
132	Low-energy electron scattering by cellulose and hemicellulose components. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 1682-9	3.6	43
131	Low-energy electron collisions with thiophene. <i>Journal of Chemical Physics</i> , 2013 , 138, 194306	3.9	11
130	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
129	Positron and electron collisions with nitrous oxide: Measured and calculated cross sections. <i>Physical Review A</i> , 2013 , 88,	2.6	12
128	Cross sections for positron scattering from ethane. <i>Physical Review A</i> , 2013 , 87,	2.6	10
127	Positron collisions with ethene. <i>Physical Review A</i> , 2012 , 86,	2.6	10
126	Shape resonance spectra of lignin subunits. <i>Physical Review A</i> , 2012 , 86,	2.6	24
125	Electronic excitation of gas-phase furan molecules by electron impact. <i>Physical Review A</i> , 2012 , 85,	2.6	21
124	Positron scattering from methane. <i>Physical Review A</i> , 2012 , 85,	2.6	28
123	Sugarcane as a carbon source: The Brazilian case. <i>Biomass and Bioenergy</i> , 2012 , 46, 5-12	5.3	31
122	Positron interactions with molecules. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 012019	0.3	

121	Positron scattering from the cyclic ethers oxirane, 1,4-dioxane, and tetrahydropyran. <i>Journal of Chemical Physics</i> , 2012 , 136, 124305	3.9	14
120	Cross sections for below threshold electron excitation of furan. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 052055	0.3	
119	Low Energy Electron Scattering from Fuels. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 052075	0.3	
118	Low Energy Electron Scattering from Fuels. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 012014	0.3	1
117	Electronic excitation of the π^* state of furan by electron impact. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 012015	0.3	1
116	Low Energy Positron Scattering by carbon monoxide. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 072006	0.3	
115	Multimode vibrational couplings in resonant positron annihilation. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 072010	0.3	
114	Electron collisions with the HCOOH... H ₂ O complex. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 052024		
113	Elastic Scattering of Low-Energy Electron by Lignin Precursors. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 052029	0.3	
112	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
111	Multimode vibrational couplings in resonant positron annihilation. <i>Physical Review Letters</i> , 2011 , 107, 103201	7.4	14
110	Low-energy elastic electron scattering from furan. <i>Physical Review A</i> , 2010 , 81,	2.6	23
109	Near-threshold vibrational excitation of acetylene by positron impact. <i>Physical Review A</i> , 2010 , 81,	2.6	7
108	Electron collisions with alpha-D-glucose and beta-D-glucose monomers. <i>Journal of Chemical Physics</i> , 2010 , 132, 124309	3.9	5
107	Low energy scattering of positrons by. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 178-182	1.2	7
106	Low-energy electron collisions with pyrrole. <i>Journal of Chemical Physics</i> , 2010 , 132, 204301	3.9	20
105	Low-energy electron collisions with acetic acid. <i>Physical Review A</i> , 2009 , 79,	2.6	9
104	Feshbach projection operator approach to positron annihilation. <i>Physical Review A</i> , 2009 , 80,	2.6	17

103	Electron collisions with the CH ₂ O-H ₂ O complex. <i>Physical Review A</i> , 2009 , 80,	2.6	24
102	Transient ions in electron and positron scattering. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 012035	3	
101	Elastic scattering of slow electrons by n-propanol and n-butanol. <i>Physical Review A</i> , 2008 , 78,	2.6	28
100	Low-energy electron scattering from methanol and ethanol. <i>Physical Review A</i> , 2008 , 77,	2.6	62
99	Low-energy positron scattering by CO ₂ . <i>Physical Review A</i> , 2008 , 77,	2.6	11
98	Positron scattering from formic acid. <i>Physical Review A</i> , 2008 , 78,	2.6	25
97	Low-energy elastic scattering of positrons by N ₂ O. <i>Physical Review A</i> , 2008 , 77,	2.6	7
96	Comparative study of electron and positron scattering by H ₂ : The role of the $\bar{g}+2$ Feshbach resonance. <i>Physical Review A</i> , 2008 , 78,	2.6	6
95	Polarization effects on electronic excitation of the a B _{31u} state of ethylene by low-energy electron impact. <i>Physical Review A</i> , 2008 , 77,	2.6	11
94	Polarization effects on low-energy electron collisions with propane. <i>Physical Review A</i> , 2008 , 77,	2.6	9
93	Polarization effects on electronic excitation of molecules by low-energy electron impact: Study on e ⁺ -furan scattering. <i>Physical Review A</i> , 2008 , 77,	2.6	20
92	The influence of f-type function in positron-He/positron-H ₂ scattering with the Schwinger multichannel method. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008 , 266, 447-451	1.2	18
91	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
90	Scattering of low-energy electrons by isomers of C ₄ H ₁₀ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007 , 40, 3015-3023	1.3	10
89	Electron and positron scattering from 1,1-C ₂ H ₂ F ₂ . <i>Journal of Chemical Physics</i> , 2007 , 126, 164309	3.9	9
88	Electron collisions with furan. <i>Journal of Chemical Physics</i> , 2007 , 126, 194317	3.9	23
87	Electron scattering from molecules: applications of the Schwinger multichannel method to e ⁺ -O ₂ and e ⁺ -C ₂ H ₄ collisions. <i>Journal of Physics: Conference Series</i> , 2007 , 88, 012028	0.3	3
86	Near-threshold vibrational excitation of H ₂ by positron impact: A projection-operator approach. <i>Physical Review A</i> , 2007 , 76,	2.6	18

85	Electron-impact electronic excitation of molecular nitrogen using the Schwinger multichannel variational method. <i>Physical Review A</i> , 2007 , 75,	2.6	9
84	Advances and challenges in electron-molecule scattering physics—A Report of the 14th International Symposium on Electron-Molecule Collisions and Swarms. <i>Physica Scripta</i> , 2006 , 74, C7-C14	2.6	1
83	A geometrical optics model for electron-molecule collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006 , 39, 1045-1053	1.3	5
82	On the XIIIth International Workshop on low-energy e ⁺ and Ps physics. <i>Physica Scripta</i> , 2006 , 74, C37-C45	2.6	3
81	Experimental and theoretical elastic cross sections for electron collisions with the C ₃ H ₆ isomers. <i>Journal of Chemical Physics</i> , 2006 , 124, 024323	3.9	15
80	Electronic excitation of H ₂ by positron impact. <i>Physical Review A</i> , 2006 , 74,	2.6	17
79	Excitation of the a ¹ π and B ³ π electronic states of the nitrogen molecule by electron impact. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 2664-2676	2.1	13
78	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
77	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
76	Electron collisions with CS ₂ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005 , 38, 2087-2095	1.3	7
75	Cross sections for electron-impact excitation of the H ₂ molecule using the MOB-SCI strategy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005 , 38, 4363-4378	1.3	51
74	Polarization effects in the elastic scattering of low-energy electrons by C ₃ H ₄ isomers. <i>Physical Review A</i> , 2005 , 71,	2.6	9
73	Electronic excitation of CO by positron impact. <i>Physical Review A</i> , 2005 , 72,	2.6	7
72	Addendum to Elastic scattering of low-energy electrons by OCS— <i>Physical Review A</i> , 2005 , 72,	2.6	4
71	Electron collisions with isomers of C ₄ H ₈ and C ₄ H ₁₀ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, 997-1012	1.3	24
70	Electron-impact excitation of H ₂ : minimal orbital basis for single configuration interaction. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, L129-L135	1.3	45
69	Electron collisions with the hydrides PH ₃ , AsH ₃ and SbH ₃ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, 3859-3864	1.3	3
68	Elastic scattering of low-energy electrons by OCS. <i>Physical Review A</i> , 2004 , 70,	2.6	8

67	Low-energy electron collisions with C ₄ H ₆ isomers. <i>Physical Review A</i> , 2004 , 69,	2.6	13
66	Electronic excitation of N ₂ by positron impact. <i>Physical Review A</i> , 2004 , 69,	2.6	27
65	Positron impact electronic excitation of N ₂ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 221, 69-75	1.2	21
64	Elastic scattering of low-energy electrons by CF ₃ Cl, CF ₃ Br and CF ₃ I. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003 , 36, 1263-1272	1.3	20
63	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
62	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
61	A comparative study of elastic scattering of low-energy electrons by boron, aluminum and gallium trihalides. <i>Journal of Chemical Physics</i> , 2003 , 118, 75-82	3.9	13
60	The Schwinger multichannel method (SMC) calculations for Z _{eff} were off by a factor of Z. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002 , 192, 225-237	1.2	25
59	Effective configurations in positron-molecule scattering. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002 , 35, 3531-3538	1.3	4
58	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
57	Scattering of low-energy electrons by TiCl ₄ , GeCl ₄ , SiCl ₄ and CCl ₄ : a comparison of elastic cross sections. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000 , 33, 5467-5478	1.3	10
56	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
55	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
54	Halogenation effects in electron scattering from CHF ₃ , CH ₂ F ₂ , CH ₃ F, CHCl ₃ , CH ₂ Cl ₂ , CH ₃ Cl, CFCl ₃ , CF ₂ Cl ₂ , and CF ₃ Cl. <i>Physical Review A</i> , 1999 , 59, 879-881	2.6	38
53	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
52	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
51	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.	3.6	22
50	Superelastic collisions of electrons with the c metastable state in hydrogen dc positive column. <i>Chemical Physics</i> , 1999 , 246, 275-282	2.3	8

49	Elastic differential cross sections for electron collision with CF ₃ and CF ₃ H. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999 , 32, L539-L545	1.3	20
48	Annihilation dynamics of positrons in molecular environments. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998 , 143, 140-148	1.2	20
47	Static-exchange cross sections for electron-collisions with BH, CH, SiH, and GeH. <i>European Physical Journal D</i> , 1998 , 1, 291-296	1.3	9
46	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
45	Low-energy electron scattering by N, P, As and Sb. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998 , 31, 2091-2099	1.3	6
44	Electronic excitation of XH ₄ (X=C,Si,Ge,Sn,Pb) by electron impact. <i>Physical Review A</i> , 1998 , 57, 4987-4990.	2.6	15
43	Transitions between excited electronic states of H ₂ molecules by electron impact. <i>Physical Review A</i> , 1998 , 58, 2857-2863	2.6	12
42	25-State Calculation for e ⁺ -H ₂ Scattering. <i>Physical Review Letters</i> , 1998 , 81, 3832-3835	7.4	6
41	Elastic cross sections and annihilation parameter for e ⁺ -H ₂ scattering using the Schwinger multichannel method. <i>Physical Review A</i> , 1998 , 58, 3502-3506	2.6	27
40	Superelastic cross sections in e ⁺ -H ₂ scattering. <i>Physical Review A</i> , 1997 , 55, 3243-3246	2.6	15
39	Elastic e-NO collisions. <i>Physical Review A</i> , 1996 , 53, 1400-1406	2.6	21
38	Note on the generation of Gaussian bases for pseudopotential calculations. <i>International Journal of Quantum Chemistry</i> , 1996 , 60, 821-824	2.1	88
37	Cross sections for collisions of low-energy electrons with the hydrides PH ₃ , AsH ₃ , SbH ₃ , SnH ₄ , TeH ₂ , and HI. <i>Journal of Chemical Physics</i> , 1996 , 105, 1029-1033	3.9	17
36	Annihilation Dynamics of Positrons in Molecular Environments: Theoretical Study of Low-Energy Positron-C ₂ H ₄ Scattering. <i>Physical Review Letters</i> , 1996 , 77, 1028-1031	7.4	49
35	Electronic excitation of H ₂ by electron impact using soft norm-conserving pseudopotentials. <i>Physical Review A</i> , 1996 , 54, 5435-5437	2.6	11
34	Calculation of elastic scattering cross sections of low-energy electrons by PbH ₄ and SnH ₄ . <i>Journal of Chemical Physics</i> , 1995 , 103, 10566-10570	3.9	20
33	Low-energy electron scattering by CF ₄ , CCl ₄ , SiCl ₄ , SiBr ₄ , and SiI ₄ . <i>Physical Review A</i> , 1995 , 52, R1-R4	2.6	42
32	Elastic electron scattering by water molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995 , 28, 467-475	1.3	37

31	Electronic excitation of H ₂ by positron impact: an application of the Schwinger multichannel method. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994 , 27, 1881-1888	1.3	18
30	Transferability of local-density norm-conserving pseudopotentials to electron-molecule-collision calculations. <i>Physical Review A</i> , 1993 , 47, 1111-1118	2.6	172
29	Electronic excitation of CH ₄ by low-energy electron impact. <i>Journal of Chemical Physics</i> , 1993 , 98, 2132-2137	2.6	23
28	Schwinger multichannel method for positron-molecule scattering. <i>Physical Review A</i> , 1993 , 47, 3976-3982	2.6	81
27	Spin exchange in elastic e-O ₂ collisions. <i>Physical Review Letters</i> , 1992 , 68, 1698-1701	7.4	31
26	Low-energy electron-impact excitation of the a 3B _{1u} ($\bar{\Gamma}_g$) state of ethylene. <i>Journal of Chemical Physics</i> , 1992 , 96, 3531-3535	3.9	32
25	Low-energy electron-impact excitation of the 3,1A ₂ (n \rightarrow pi *) states of formaldehyde. <i>Physical Review A</i> , 1992 , 46, 2462-2467	2.6	17
24	Studies of electron collisions with polyatomic molecules using distributed-memory parallel computers. <i>Journal of Chemical Physics</i> , 1991 , 94, 5455-5461	3.9	70
23	Schwinger multichannel method: A study of a Feshbach resonance in e-H ₂ collisions. <i>Physical Review A</i> , 1990 , 41, 2903-2905	2.6	10
22	Electronic excitation of H ₂ O by low-energy electron impact. <i>Physical Review A</i> , 1990 , 41, 546-549	2.6	45
21	Cross sections and photoelectron asymmetry parameters for photoionization of H ₂ O. <i>Journal of Chemical Physics</i> , 1990 , 92, 2362-2366	3.9	37
20	Applications of the Schwinger multichannel method to electron-molecule collisions. <i>Physical Review A</i> , 1990 , 41, 327-332	2.6	108
19	Cross sections for rotational excitation of CH ₄ by 3-20-eV electrons. <i>Physical Review A</i> , 1989 , 40, 5577-5582	2.6	21
18	Studies of elastic e-NH ₃ collisions. <i>Physical Review A</i> , 1989 , 39, 2392-2396	2.6	26
17	Polarization effects in low-energy e-CH ₄ collisions. <i>Physical Review A</i> , 1989 , 39, 4312-4315	2.6	40
16	Aspects of the Schwinger multichannel variational formulation. <i>Physical Review A</i> , 1988 , 38, 501-503	2.6	33
15	Cross sections for excitation of the b ³ Sigma u ⁺ , a ³ Sigma g ⁺ , and c ³ Pi u states of H ₂ by low-energy electrons. <i>Physical Review A</i> , 1988 , 38, 4527-4536	2.6	58
14	Studies of the photoionization cross sections of CH ₄ . <i>Journal of Chemical Physics</i> , 1988 , 89, 2998-3001	3.9	28

13	Application of the Schwinger multichannel formulation to electron-impact excitation of the B 1 Sigma u+ state of H2. <i>Physical Review A</i> , 1987 , 35, 2473-2478	2.6	38
12	Schwinger multichannel study of the 2 Pi g shape resonance in N2. <i>Physical Review A</i> , 1987 , 36, 1632-1641	6	71
11	The connection between the orientation of adsorbed water and the differential cross section of elastic electron scattering. <i>Surface Science</i> , 1987 , 186, L548-L555	1.8	1
10	Correlation effects in elastic e-N2 scattering. <i>Physical Review A</i> , 1987 , 36, 1642-1648	2.6	48
9	Studies of electron-molecule collisions: Applications to e-H2O. <i>Journal of Chemical Physics</i> , 1986 , 85, 1854-1858	3.9	55
8	On the possibility of using differential cross section measurements for the electronic excitation of adsorbates by an electron beam, to determine the adsorbate orientation. <i>Journal of Chemical Physics</i> , 1986 , 85, 6153-6162	3.9	22
7	Cross sections for electron impact excitation of the b3Π+state of H2: an application of the Schwinger multichannel variational method. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1985 , 18, L865-L870		71
6	Studies of electron-polyatomic-molecule collisions: Applications to e-CH4. <i>Physical Review A</i> , 1985 , 32, 2696-2701	2.6	57
5	Electronic excitation of oriented molecules by low-energy electrons: An application to H2. <i>Physical Review B</i> , 1985 , 32, 7122-7128	3.3	6
4	Ab initio inclusion of polarization effects in the Schwinger multichannel formulation: Application to elastic e-H2 scattering. <i>Physical Review A</i> , 1984 , 30, 3005-3011	2.6	47
3	Multichannel Schwinger variational cross sections for electron-impact excitation of the b Π+3 state in H2. <i>Physical Review A</i> , 1984 , 30, 1741-1746	2.6	48
2	Theoretical study of the F2 molecule using the variational cellular method. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1981 , 14, L533-L535		4
1	One-parameter electronic densities in atoms. <i>Physical Review A</i> , 1980 , 22, 343-347	2.6	20