Michael Brunger

List of Publications by Year
in descending order

345 papers	7,460 citations	71102 41 h-index	128289 60 g-index
347 all docs	347 docs citations	347 times ranked	2041 citing authors

#	Article	IF	Citations
1	Electronâ€“molecule scattering cross-sections. I. Experimental techniques and data for diatomic molecules. Physics Reports, 2002, 357, 215-458.	25.6	299
2	LXCat: an Openâ€Access, Webâ€Based Platform for Data Needed for Modeling Low Temperature Plasmas. Plasma Processes and Polymers, 2017, 14, 1600098.	3.0	188
3	Differential cross sections for electron-impact excitation of the electronic states ofN2. Physical Review A, 1990, 41, 1413-1426.	2.5	99
4	Positron and electron scattering from tetrahydrofuran. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 2079-2086.	1.5	98
5	Elastic electron scattering from helium: absolute experimental cross sections, theory and derived interaction potentials. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, 1823-1838.	1.5	92
6	Single electron tracks in water vapour for energies below 100eV. International Journal of Mass Spectrometry, 2008, 277, 175-179.	1.5	90
7	Integral cross sections for electron impact excitation of electronic states of N2. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 1185-1199.	1.5	89
8	Modelling low energy electron and positron tracks for biomedical applications. International Journal of Radiation Biology, 2012, 88, 71-76.	1.8	80
9	Electron-scattering cross sections for collisions with tetrahydrofuran from 50 to 5000 eV. Physical Review A, 2009, 80, .	2.5	76
10	Absolute elastic cross-sections for low-energy electron scattering from tetrahydrofuran. New Journal of Physics, 2007, 9, 41-41.	2.9	74
11	Electron scattering and transport in biofuels, biomolecules and biomass fragments. International Reviews in Physical Chemistry, 2017, 36, 333-376.	2.3	72
12	Electron collisions in atmospheres. International Reviews in Physical Chemistry, 2016, 35, 297-351.	2.3	67
13	Modelling of plasma processes in cometary and planetary atmospheres. Plasma Sources Science and Technology, 2013, 22, 013002.	3.1	65
14	Elastic and inelastic cross sections for low-energy electron collisions with pyrimidine. Journal of Chemical Physics, 2012, 136, 144310.	3.0	64
15	Total and positronium formation cross sections for positron scattering from H₂O and HCOOH. New Journal of Physics, 2009, 11, 103036.	2.9	63
16	Positron scattering from O₂. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 215206.	1.5	62
17	Positron Scattering from Molecules: An Experimental Cross Section Compilation for Positron Transport Studies and Benchmarking Theory. Journal of Physical and Chemical Reference Data, 2017, 46, .	4.2	60
18	Low energy electron scattering from CO: absolute cross section measurements andR-matrix calculations. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 3197-3214.	1.5	58

#	Article	IF	Citations
19	Cross sections and oscillator strengths for electron-impact excitation of the Ã1Δg B11 electronic state of water. Journal of Chemical Physics, 2007, 126, 064306.	3.0	57
20	Experimental and theoretical investigation of the triple differential cross section for electron impact ionization of pyrimidine molecules. Journal of Chemical Physics, 2012, 136, 024304.	3.0	57
21	Total electron-scattering cross sections from pyrimidine as measured using a magnetically confined experimental system. Physical Review A, 2013, 88, .	2.5	56
22	Cross section data sets for electron collisions with H2, O2, CO, CO2, N2O and H2O. European Physical Journal D, 2012, 66, 1.	1.3	55
23	Low-energy elastic electron interactions with pyrimidine. Physical Review A, 2011, 84, .	2.5	53
24	Electron-collision cross sections for iodine. Physical Review A, 2011, 83, .	2.5	52
25	Total, elastic, and inelastic cross sections for positron and electron collisions with tetrahydrofuran. Journal of Chemical Physics, 2013, 138, 074301.	3.0	52
26	Absolute cross sections for dissociative electron attachment and dissociative ionization of cobalt tricarbonyl nitrosyl in the energy range from 0 eV to 140 eV. Journal of Chemical Physics, 2013, 138, 044305.	3.0	51
27	Low-energy electron and positron transport in gases and soft-condensed systems of biological relevance. Applied Radiation and Isotopes, 2014, 83, 77-85.	1.5	51
28	Low-energy electron scattering from methane. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 2239-2259.	1.5	50
29	Total cross sections for positron and electron scattering from pyrimidine. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 215204.	1.5	49
30	The role of pyrimidine and water as underlying molecular constituents for describing radiation damage in living tissue: A comparative study. Journal of Applied Physics, 2015, 117, .	2.5	48
31	Near-threshold vibrational excitation ofH2by electron impact: Resolution of discrepancies between experiment and theory. Physical Review Letters, 1990, 65, 3253-3256.	7.8	47
32	Cross sections for electron impact excitation of the vibrationally resolved Â1 electronic state of carbon monoxide. Journal of Chemical Physics, 2007, 126, 064307.	3.0	47
33	Scattering data for modelling positron tracks in gaseous and liquid water. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 145001.	1.5	47
34	Elastic scattering of low-energy electrons from ammonia. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, 1533-1542.	1.5	46
35	Resonant Mechanisms in the Vibrational Excitation of Ground StateO2. Physical Review Letters, 1996, 76, 3534-3537.	7.8	46
36	Electron collisions with ethylene. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 1615-1626.	1.5	46

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37	Inelastic scattering of electrons from sodium. Journal of Physics B: Atomic and Molecular Physics, 1986, 19, 3313-3326.	1.6	45
38	An electron momentum spectroscopy investigation of the 4d core states of xenon. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, L597-L601.	1.5	45
39	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
40	Norbornane: An investigation into its valence electronic structure using electron momentum spectroscopy, and density functional and Greenâ€™s function theories. Journal of Chemical Physics, 2004, 121, 10525-10541.	3.0	43
41	Elastic electron scattering from. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 213-233.	1.5	42
42	Positron scattering from the isoelectronic molecules N₂, CO and C₂H₂. New Journal of Physics, 2011, 13, 115001.	2.9	42
43	Differential cross sections and cross-section ratios for the electron-impact excitation of the neon2p53sconfiguration. Physical Review A, 2002, 65, .	2.5	41
44	Excitation of electronic states in tetrahydrofuran by electron impact. Journal of Chemical Physics, 2011, 134, 144302.	3.0	41
45	Electron drift velocities in He and water mixtures: Measurements and an assessment of the water vapour cross-section sets. Journal of Chemical Physics, 2014, 141, 014308.	3.0	41
46	Electron impact ionisation and fragmentation of methanol and ethanol. International Journal of Mass Spectrometry, 2016, 404, 48-59.	1.5	41
47	Differential cross sections for elastic and inelastic n=2 excitation of ground-state helium at 29.6 and 40.1 eV. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, 1325-1335.	1.5	40
48	Positron scattering from argon: total cross sections and the scattering length. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 015203.	1.5	39
49	Dynamical (e,2e) investigations of tetrahydrofuran and tetrahydrofurfuryl alcohol as DNA analogues. Chemical Physics Letters, 2013, 572, 32-37.	2.6	39
50	Excitation of the electronic states of carbon monoxide by electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 1743-1759.	1.5	38
51	Electron collisions with NO: elastic scattering and rovibrational (0 to 1, 2, 3, 4) excitation cross sections. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 487-504.	1.5	38
52	Coexistence of 1,3-butadiene conformers in ionization energies and Dyson orbitals. Journal of Chemical Physics, 2005, 123, 124315.	3.0	38
53	Elastic cross sections for electron scattering from GeF4: Predominance of atomic-F in the high-energy collision dynamics. Journal of Chemical Physics, 2012, 136, 134313.	3.0	38
54	Total cross sections for positron scattering from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> low energies. Physical Review A, 2009, 80, .	2.5	37

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55	Experimental determination of the scattering length for positron scattering from krypton. European Physical Journal D, 2011, 64, 317-321.	1.3	37
56	Transport coefficients and cross sections for electrons in water vapour: Comparison of cross section sets using an improved Boltzmann equation solution. Journal of Chemical Physics, 2012, 136, 024318.	3.0	37
57	Electron-impact excitation of Rydberg and valence electronic states of nitric oxide: I. Differential cross sections. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 783-808.	1.5	36
58	Positron scattering from water. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 1597-1604.	1.5	36
59	Cross sections for the electron impact excitation of the B1, A1and A1dissociative electronic states of water. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 697-708.	1.5	36
60	Elastic Cross Sections for Electron Collisions with Molecules Relevant to Plasma Processing. Journal of Physical and Chemical Reference Data, 2010, 39, 033106.	4.2	36
61	Electron swarm transport in THF and water mixtures. European Physical Journal D, 2014, 68, 1.	1.3	36
62	Electron impact excitation of the 31P state in magnesium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 1639-1648.	1.5	35
63	Procedures for conditioning W- and Ni-moderators for application in positron-scattering measurements. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 533-536.	1.4	35
64	A dynamical (e,2e) investigation of the structurally related cyclic ethers tetrahydrofuran, tetrahydropyran, and 1,4-dioxane. Journal of Chemical Physics, 2013, 139, 034306.	3.0	35
65	A Density Functional Theory and Electron Momentum Spectroscopy Study into the Complete Valence Electronic Structure of Cubane. Journal of the American Chemical Society, 2000, 122, 3892-3900.	13.7	34
66	Low-energy electron scattering from pyrimidine: Similarities and differences with benzene. Chemical Physics Letters, 2012, 535, 30-34.	2.6	34
67	An experimental and theoretical investigation into the excited electronic states of phenol. Journal of Chemical Physics, 2014, 141, 074314.	3.0	34
68	Differential cross sections for the electron impact excitation of pyrimidine. Journal of Chemical Physics, 2012, 137, 074304.	3.0	33
69	Nitric oxide excited under auroral conditions: Excited state densities and band emissions. Journal of Geophysical Research, 2000, 105, 20857-20867.	3.3	32
70	An investigation into electron scattering from pyrazine at intermediate and high energies. Journal of Chemical Physics, 2013, 139, 184310.	3.0	32
71	Positron interactions with waterâ€“total elastic, total inelastic, and elastic differential cross section measurements. Journal of Chemical Physics, 2014, 140, 044320.	3.0	32
72	Experimental confirmation for resonance enhancement in the electron impact excitation cross sections of thea1Î”gandb1Î£g+electronic states ofO2. Physical Review Letters, 1992, 69, 2495-2498.	7.8	31

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73	Theoretical and (e,2e) Experimental Investigation into the Complete Valence Electronic Structure of [1.1.1]Propellane. Journal of the American Chemical Society, 1997, 119, 2896-2904.	13.7	31
74	Production of vibrationally excited N2 by electron impact. Planetary and Space Science, 2004, 52, 815-822.	1.7	31
75	Positron scattering from 3-hydroxy-tetrahydrofuran. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 085201.	1.5	31
76	Cross sections for electron impact excitation of the Câ€‰Î1 and Dâ€‰Î£1+ electronic states in N2O. Journal of Chemical Physics, 2009, 131, 114307.	3.0	31
77	Substitution effects in elastic electron collisions with CH3X (X=F, Cl, Br, I) molecules. Journal of Chemical Physics, 2010, 132, 074309.	3.0	31
78	Positron scattering from methane. Physical Review A, 2012, 85, .	2.5	31
79	Electron scattering by biomass molecular fragments: useful data for plasma applications?. European Physical Journal D, 2016, 70, 1.	1.3	31
80	Electron transport in biomolecular gaseous and liquid systems: theory, experiment and self-consistent cross-sections. Plasma Sources Science and Technology, 2018, 27, 053001.	3.1	31
81	Differential cross sections for the electron impact excitation of the a1Deltagand b1Sigmag+electronic states of O2. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 4057-4072.	1.5	30
82	Electron-impact excitation of Rydberg and valence electronic states of nitric oxide: II. Integral cross sections. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 809-819.	1.5	30
83	Dynamical (e,2e) studies of tetrahydrofurfuryl alcohol. Journal of Chemical Physics, 2012, 136, 244301.	3.0	30
84	Triply differential (e,2e) studies of phenol. Journal of Chemical Physics, 2014, 141, 124307.	3.0	30
85	Role of electronic excited N2in vibrational excitation of the N2ground state at high latitudes. Journal of Geophysical Research, 2006, 111, .	3.3	29
86	A study of electron scattering from benzene: Excitation of the 1B1u, 3E2g, and 1E1u electronic states. Journal of Chemical Physics, 2011, 134, 134308.	3.0	29
87	Transport properties of electron swarms in tetrahydrofuran under the influence of an applied electric field. Physical Review A, 2013, 88, .	2.5	29
88	Differential and integral electron scattering cross sections from tetrahydrofuran (THF) over a wide energy range: 1â€“10 000 eV. European Physical Journal D, 2014, 68, 1.	1.3	29
89	Recommended Positron Scattering Cross Sections for Atomic Systems. Journal of Physical and Chemical Reference Data, 2019, 48, .	4.2	29
90	Investigation into the Valence Electronic Structure of Norbornene Using Electron Momentum Spectroscopy, Green's Function, and Density Functional Theories. Journal of Physical Chemistry A, 2005, 109, 9324-9340.	2.5	28

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91	Positron scattering from formic acid. Physical Review A, 2008, 78, .	2.5	28
92	Electron-impact excitation of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mn>5</mml:mn><mml:msup><mml:mi>d</mml:mi><mml:mrow><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:msup></mml:mrow><mml:mo>)</mml:mo></mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:math>Ne resonance. Physical Review A, 2008, 77, .	2.5	28
93	A study of electron interactions with silicon tetrafluoride: elastic scattering and vibrational excitation cross sections. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 095204.	1.5	28
94	Positron scattering from pyrimidine. Physical Review A, 2013, 88, .	2.5	28
95	On the use of Monte Carlo simulations to model transport of positrons in gases and liquids. Applied Radiation and Isotopes, 2014, 83, 148-154.	1.5	28
96	Electron-photon coincidence studies in magnesium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1989, 22, 1431-1442.	1.5	27
97	A Critical Comparison of Electron Scattering Cross Sections measured by Single Collision and Swarm Techniques. Australian Journal of Physics, 1997, 50, 483.	0.6	27
98	Excitation of the lowest lying , , , , and electronic states in water by 15eV electrons. International Journal of Mass Spectrometry, 2008, 271, 80-84.	1.5	27
99	The role of electron-impact vibrational excitation in electron transport through gaseous tetrahydrofuran. Journal of Chemical Physics, 2015, 142, 124307.	3.0	27
100	Adiabatic-nuclei calculations of positron scattering from molecular hydrogen. Physical Review A, 2017, 95, .	2.5	27
101	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
102	Absolute differential cross sections for electron impact excitation of the 10.8-11.5 eV energy-loss states of CO2. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 567-587.	1.5	26
103	Orbital based electronic structural signatures of the guanine keto G-7H/G-9H tautomer pair as studied using dual space analysis. Biophysical Chemistry, 2006, 121, 105-120.	2.8	26
104	Absolute Electron Scattering Cross Sections for the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CF</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Radical. Physical Review Letters, 2008, 100, 063202.	7.8	26
105	display="inline"><mml:mrow><mml:mi>C</mml:mi><mml:mspace width="0.2em" /><mml:mmultiscripts><mml:mi>Î£</mml:mi><mml:none /><mml:mo>+</mml:mo><mml:mprescripts /><mml:none /><mml:mn>1</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mi>c</mml:mi><mml:mspace width="0.2em" /><mml:mmultiscripts><mml:mi>Î£</mml:mi><mml:mprescripts /><mml:none /><mml:mn>3</mml:mn>	2.5	26
106	Cross-section calculations for positron scattering from pyrimidine over an energy range from 0.1 to 10000 eV. Physical Review A, 2013, 88, .	2.5	26
107	Ab initioelectron scattering cross-sections and transport in liquid xenon. Journal Physics D: Applied Physics, 2016, 49, 355201.	2.8	26
108	Deconvolution of Overlapping Features in Electron Energy-loss Spectra: Determination of Absolute Differential Cross Sections for Electron-impact Excitation of Electronic States of Molecules. Australian Journal of Physics, 1997, 50, 525.	0.6	25

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109	Electron-driven excitation of O2 under night-time auroral conditions: Excited state densities and band emissions. Planetary and Space Science, 2006, 54, 45-59.	1.7	25
110	Electron-impact excitation of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>B</mml:mi><mml:mtext>â€‰</mml:mtext><mml:msubsup><mml:mrow><mml:mmultiscripts><mml:none /><mml:mn>1</mml:mn></mml:mmultiscripts></mml:mrow><mml:mi mathvariant="normal">u</mml:mi><mml:mo>+</mml:mo></mml:msubsup></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>C</mml:mi><mml:mtext>â€‰</mml:mtext></m. Physical Review A, 2008, 77, .	2.5	25
111	Differential cross sections for electron impact excitation of the electronic bands of phenol. Journal of Chemical Physics, 2015, 142, 104305.	3.0	25
112	A complex phaseshift analysis for elastic scattering of 54.4 eV electrons from sodium. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 4861-4868.	1.6	24
113	Electron excitation of the Schumannâ€“Runge continuum, longest band, and second band electronic states in O2. Journal of Chemical Physics, 2011, 134, 064311.	3.0	24
114	Electron- and photon-impact ionization of furfural. Journal of Chemical Physics, 2015, 143, 184310.	3.0	24
115	Self-consistency of electron-THF cross sections using electron swarm techniques. Journal of Chemical Physics, 2017, 147, 195103.	3.0	24
116	A Complete Cross Section Data Set for Electron Scattering by Pyridine: Modelling Electron Transport in the Energy Range 0â€“100 eV. International Journal of Molecular Sciences, 2020, 21, 6947.	4.1	24
117	Excitation of vibrational quanta in water by electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 5033-5044.	1.5	23
118	Total cross-sections for positron and electron scattering from Î±-tetrahydrofurfuryl alcohol. New Journal of Physics, 2011, 13, 063019.	2.9	23
119	Low energy positron interactions with uracilâ€”Total scattering, positronium formation, and differential elastic scattering cross sections. Journal of Chemical Physics, 2014, 141, 034306.	3.0	23
120	Differential cross sections for intermediate-energy electron scattering from Î±-tetrahydrofurfuryl alcohol: Excitation of electronic-states. Journal of Chemical Physics, 2014, 141, 024301.	3.0	23
121	Positron kinetics in an idealized PET environment. Scientific Reports, 2015, 5, 12674.	3.3	23
122	The electron-furfural scattering dynamics for 63 energetically open electronic states. Journal of Chemical Physics, 2016, 144, 124310.	3.0	23
123	Electron impact ionization of 1-propanol. International Journal of Mass Spectrometry, 2017, 422, 32-41.	1.5	23
124	Electron energy-loss spectra of coupled electronic states: Effects of Rydberg-valence interactions inO2. Physical Review A, 2001, 63, .	2.5	22
125	Infrared Auroral Emissions Driven by Resonant Electron Impact Excitation of NO Molecules. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	22
126	An experimental and theoretical investigation into positron and electron scattering from formaldehyde. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 195202.	1.5	22

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127	Very low-energy total cross sections and the experimental scattering length for the positronâ€“xenon system. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 085203.	1.5	22
128	Negative ion formation through dissociative electron attachment to the group IV tetrafluorides: Carbon tetrafluoride, silicon tetrafluoride and germanium tetrafluoride. International Journal of Mass Spectrometry, 2013, 339-340, 45-53.	1.5	22
129	Investigating the role of vibrational excitation in simulating charged-particle tracks in liquid pyrimidine. European Physical Journal D, 2016, 70, 1.	1.3	22
130	A new normalization method for electron collision cross sections measured using skimmed supersonic jet beams. Measurement Science and Technology, 2007, 18, 2783-2790.	2.6	21
131	Elastic electron scattering from 3-hydroxytetrahydrofuran: experimental and theoretical studies. New Journal of Physics, 2008, 10, 053002.	2.9	21
132	Integral cross sections for electron impact excitation of the¹Î£⁺_uand¹Î_uelectronic states in CO₂. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 085203.	1.5	21
133	An apparatus for measuring absolute electron scattering cross sections for molecular radicals. Measurement Science and Technology, 2008, 19, 085801.	2.6	21
134	Electron impact vibrational excitation of carbon monoxide in the upper atmospheres of Mars and Venus. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	21
135	Modelling single positron tracks in Ar. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 045207.	1.5	21
136	A study of aliphatic amino acids using simulated vibrational circular dichroism and Raman optical activity spectra. European Physical Journal D, 2013, 67, 1.	1.3	21
137	A comprehensive and comparative study of elastic electron scattering from OCS and CS2 in the energy region from 1.2 to 200 eV. Journal of Chemical Physics, 2013, 138, 054302.	3.0	21
138	Electron impact ionization dynamics of para-benzoquinone. Journal of Chemical Physics, 2016, 145, 164306.	3.0	21
139	A complete data set for the simulation of electron transport through gaseous tetrahydrofuran in the energy range 1â€“100 $$hbox {eV}$$. European Physical Journal D, 2021, 75, 1.	1.3	21
140	New electron-energy transfer rates for vibrational excitation of O2. New Journal of Physics, 2003, 5, 114-114.	2.9	20
141	Experimental and theoretical cross sections for positron collisions with 3-hydroxy-tetrahydrofuran. Journal of Chemical Physics, 2013, 138, 074302.	3.0	20
142	Determining cross sections from transport coefficients using deep neural networks. Plasma Sources Science and Technology, 2020, 29, 055009.	3.1	20
143	Electron scattering from pyrazine: Elastic differential and integral cross sections. Journal of Chemical Physics, 2012, 137, 204307.	3.0	19
144	Differential cross sections for low-energy elastic electron scattering from the CF₃radical. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 245203.	1.5	19

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145	Low-energy positron and electron scattering from nitrogen dioxide. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 235202.	1.5	19
146	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
147	Electron impact ionization of 1-butanol: II. Total ionization cross sections and appearance energies. International Journal of Mass Spectrometry, 2018, 430, 44-51.	1.5	19
148	Vibrational excitation in isoelectronic molecules by electron impact: CO and N2. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, 3541-3549.	1.5	18
149	Differential and integral cross sections for excitation of the electronic states of nitric oxide by low-energy electron impact: Observation of aÎr2â†'2Î¦ excitation process. Physical Review A, 1996, 54, 2977-2982.	2.5	18
150	An electron momentum spectroscopy and density functional theory study of the outer valence electronic structure of stella-2,6-dione. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 3155-3171.	1.5	18
151	Total cross sections for positron scattering from benzene, cyclohexane, and aniline. Physical Review A, 2007, 76, .	2.5	18
152	Role of excited N₂ in the production of nitric oxide. Journal of Geophysical Research, 2007, 112, .	3.3	18
153	Total cross section measurements for positron scattering from acetone. PMC Physics B, 2010, 3, .	0.9	18
154	Experimental and theoretical cross sections for positron scattering from the pentane isomers. Journal of Chemical Physics, 2016, 144, 084301.	3.0	18
155	Low energy electron transport in furfural. European Physical Journal D, 2017, 71, 1.	1.3	18
156	Comprehensive Experimental and Theoretical Study into the Complete Valence Electronic Structure of Norbornadiene. Journal of Physical Chemistry A, 2002, 106, 9573-9581.	2.5	17
157	Definitive confirmation for through-space bond dominance in the outermost Ï€-orbitals of norbornadiene. Journal of Electron Spectroscopy and Related Phenomena, 2002, 123, 389-395.	1.7	17
158	Positron scattering from carbon dioxide. Physical Review A, 2006, 74, .	2.5	17
159	Positron scattering from chiral enantiomers. Physical Review A, 2012, 85, .	2.5	17
160	Anomalously large low-energy elastic cross sections for electron scattering from the CF3 radical. Chemical Physics Letters, 2013, 568-569, 55-58.	2.6	17
161	A joint theoretical and experimental study for elastic electron scattering from 1,4-dioxane. Journal of Chemical Physics, 2013, 139, 014308.	3.0	17
162	Current prospects on Low Energy Particle Track Simulation for biomedical applications. Applied Radiation and Isotopes, 2014, 83, 159-164.	1.5	17

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163	Cross sections for electron scattering from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si15.gif" overflow="scroll"><mml:mrow><mml:mi>Î±</mml:mi></mml:mrow></mml:math>-tetrahydrofurfuryl alcohol. Chemical Physics Letters, 2014, 608, 161-166.	2.6	17
164	An ab initio investigation for elastic and electronically inelastic electron scattering from para-benzoquinone. Journal of Chemical Physics, 2018, 149, 174308.	3.0	17
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