

Michael Brunger

List of Publications by Year in descending order

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345
papers

7,460
citations

71102

41
h-index

128289

60
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all docs

347
docs citations

347
times ranked

2041
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulating the Feasibility of Using Liquid Micro-Jets for Determining Electron-Liquid Scattering Cross-Sections. International Journal of Molecular Sciences, 2022, 23, 3354.	4.1	4
2	Low-lying electronic states of ethanol investigated by theoretical and synchrotron radiation methods. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 285, 108170.	2.3	1
3	Electron-impact excitation of the $5s^2 \rightarrow 5p^2$ and $5s^2 \rightarrow 5p^3$ transitions in rubidium by 40 eV electrons: theory and experiment. European Physical Journal D, 2022, 76, .	1.3	1
4	Inclusion of Electron Interactions by Rate Equations in Chemical Models. Atoms, 2022, 10, 62.	1.6	2
5	Post-collision and inter-nuclear effects on the fully differential cross sections of helium atom single ionization by heavy ion impact. European Physical Journal Plus, 2022, 137, .	2.6	0
6	An improved set of electron-THFA cross sections refined through a neural network-based analysis of swarm data. Journal of Chemical Physics, 2021, 154, 084306.	3.0	7
7	Recommended Cross Sections for Electron-Indium Scattering. Journal of Physical and Chemical Reference Data, 2021, 50, .	4.2	6
8	Foundations and interpretations of the pulsed-Townsend experiment. Plasma Sources Science and Technology, 2021, 30, 035017.	3.1	9
9	Electron impact ionization of R-carvone: III. Absolute total ionization cross sections. International Journal of Mass Spectrometry, 2021, 464, 116556.	1.5	4
10	Positron Scattering from the Group IIB Metals Zinc and Cadmium: Recommended Cross Sections and Transport Simulations. Journal of Physical and Chemical Reference Data, 2021, 50, .	4.2	4
11	Electron-impact excitation of the $(4d105s)S1/2 \rightarrow (4d95s2)D3/2$ and $(4d105s)S1/2 \rightarrow (4d106s)S1/2$ transitions in silver: Experiment and theory. Physical Review A, 2021, 104, .	2.5	3
12	Absolute partial ionization cross sections for electron impact of R-carvone from threshold to 100 eV. European Physical Journal D, 2021, 75, 1.	1.3	4
13	Toward a complete and comprehensive cross section database for electron scattering from NO using machine learning. Journal of Chemical Physics, 2021, 155, 084305.	3.0	4
14	A combined experimental and theoretical study of the lowest-lying valence, Rydberg and ionic electronic states of 2,4,6-trichloroanisole. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 271, 107751.	2.3	0
15	A dynamical (e,2e) investigation into the ionization of pyrazine. Chemical Physics Letters, 2021, 781, 139000.	2.6	1
16	Positron scattering from pyrazine. Physical Review A, 2021, 104, .	2.5	7
17	Elastic and inelastic scattering of low-energy electrons from gas-phase C_{60} : elastic scattering angular distributions and coexisting solid-state features revisited. European Physical Journal D, 2021, 75, 1.	1.3	9
18	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

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19	A complete data set for the simulation of electron transport through gaseous tetrahydrofuran in the energy range $1 \leq E \leq 100$ eV. European Physical Journal D, 2021, 75, 1.	1.3	21
20	A Complete Cross Section Data Set for Electron Scattering by Pyridine: Modelling Electron Transport in the Energy Range $0 \leq E \leq 100$ eV. International Journal of Molecular Sciences, 2020, 21, 6947.	4.1	24
21	The electronic structure of bicyclo[2.2.2]octa-2,5-dione. Chemical Physics Letters, 2020, 757, 137877.	2.6	0
22	Electron impact ionization of R-carvone: I. Mass spectra and appearance energies. International Journal of Mass Spectrometry, 2020, 456, 116395.	1.5	6
23	Electron-impact excitation of the $(5s25p) P1/2 \rightarrow (5s26s) S1/2$ transition in indium: Theory and experiment. Physical Review A, 2020, 102, .	2.5	5
24	Recent studies with electrons, positrons and positronium. European Physical Journal D, 2020, 74, 1.	1.3	1
25	Absolute Photoabsorption Cross-Sections of Methanol for Terrestrial and Astrophysical Relevance. Journal of Physical Chemistry A, 2020, 124, 8496-8508.	2.5	5
26	A comparison of experimental and theoretical low energy positron scattering from furan. Journal of Chemical Physics, 2020, 153, 244303.	3.0	1
27	Electron impact ionization and fragmentation of biofuels. European Physical Journal D, 2020, 74, 1.	1.3	14
28	Electron scattering cross sections from nitrobenzene in the energy range $0.4 \leq E \leq 1000$ eV: the role of dipole interactions in measurements and calculations. Physical Chemistry Chemical Physics, 2020, 22, 13505-13515.	2.8	9
29	The electronic excited states of dichloromethane in the 5.8-10.8 eV energy range investigated by experimental and theoretical methods. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107172.	2.3	3
30	Joint theoretical and experimental study on elastic electron scattering from bismuth. Physical Review A, 2020, 101, .	2.5	7
31	Determining cross sections from transport coefficients using deep neural networks. Plasma Sources Science and Technology, 2020, 29, 055009.	3.1	20
32	Integral Cross Sections for Electron-Zinc Scattering over a Broad Energy Range ($0.01 \leq E \leq 5000$ eV). Journal of Physical and Chemical Reference Data, 2020, 49, .	4.2	13
33	Self-consistent electron-THF cross sections derived using data-driven swarm analysis with a neural network model. Plasma Sources Science and Technology, 2020, 29, 105008.	3.1	13
34	Positron Scattering from Gas-Phase Beryllium and Magnesium: Theory, Recommended Cross Sections, and Transport Simulations. Journal of Physical and Chemical Reference Data, 2019, 48, .	4.2	7
35	Thermal induced NDC of electron swarms in N ₂ and N ₂ -like gases: the role of temperature and collision operator approximations. Plasma Sources Science and Technology, 2019, 28, 115005.	3.1	2
36	A dynamical $(e,2e)$ investigation into the ionization of the outermost orbitals of R-carvone. Journal of Chemical Physics, 2019, 151, 124306.	3.0	7

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37	Assessment of the self-consistency of electron-THF cross sections using electron swarm techniques: Mixtures of THF–Ar and THF–N ₂ . <i>Journal of Chemical Physics</i> , 2019, 151, .	3.0	11
38	Experimental and theoretical analysis for total electron scattering cross sections of benzene. <i>Journal of Chemical Physics</i> , 2019, 151, 084310.	3.0	16
39	Electron scattering from 1-butanol at intermediate impact energies: Total cross sections. <i>Journal of Chemical Physics</i> , 2019, 150, 194307.	3.0	8
40	Experimental and theoretical cross sections for elastic electron scattering from zinc. <i>Physical Review A</i> , 2019, 99, .	2.5	11
41	Calculated meteoroid production of hydroxyl in the atmosphere of Jupiter. <i>Icarus</i> , 2019, 326, 162-169.	2.5	3
42	Recommended Positron Scattering Cross Sections for Atomic Systems. <i>Journal of Physical and Chemical Reference Data</i> , 2019, 48, .	4.2	29
43	Electronic structure and VUV photoabsorption measurements of thiophene. <i>Journal of Chemical Physics</i> , 2019, 150, 064303.	3.0	4
44	Interaction of photoionisation and meteoric input in the atmosphere of Jupiter. <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	1
45	Positron scattering from pyridine. <i>Journal of Chemical Physics</i> , 2018, 148, 144308.	3.0	12
46	Electron transport in biomolecular gaseous and liquid systems: theory, experiment and self-consistent cross-sections. <i>Plasma Sources Science and Technology</i> , 2018, 27, 053001.	3.1	31
47	Electron-impact electronic-state excitation of <i>para</i> -benzoquinone. <i>Journal of Chemical Physics</i> , 2018, 148, 124312.	3.0	11
48	Electron impact ionization of 1-butanol: I. Mass spectra and partial ionization cross sections. <i>International Journal of Mass Spectrometry</i> , 2018, 430, 158-167.	1.5	11
49	Electron impact ionization of 1-butanol: II. Total ionization cross sections and appearance energies. <i>International Journal of Mass Spectrometry</i> , 2018, 430, 44-51.	1.5	19
50	Negative ion formation through dissociative electron attachment to the group IV tetrachlorides: Carbon tetrachloride, silicon tetrachloride and germanium tetrachloride. <i>International Journal of Mass Spectrometry</i> , 2018, 426, 12-28.	1.5	11
51	Electron-impact vibrational excitation of the hydroxyl radical in the nighttime upper atmosphere. <i>Planetary and Space Science</i> , 2018, 151, 11-18.	1.7	6
52	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.	3.0	17
53	Integral Cross Sections for Electron–Magnesium Scattering Over a Broad Energy Range (0–5000 eV). <i>Journal of Physical and Chemical Reference Data</i> , 2018, 47, 043104.	4.2	15
54	Total cross section measurements for electron scattering from dichloromethane. <i>Journal of Chemical Physics</i> , 2018, 149, 244304.	3.0	2

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55	A Relativistic Complex Optical Potential Calculation for Electron–Beryllium Scattering: Recommended Cross Sections. <i>Journal of Physical and Chemical Reference Data</i> , 2018, 47, .	4.2	14
56	Quasi-four-body treatment of charge transfer in the collision of protons with atomic helium: II. Second-order non-Thomas mechanisms and the cross sections. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	1
57	Total electron scattering cross sections from <i>para</i> -benzoquinone in the energy range 1–200 eV. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22368-22378.	2.8	27
58	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.	3.0	7
59	Electron scattering and transport in biofuels, biomolecules and biomass fragments. <i>International Reviews in Physical Chemistry</i> , 2017, 36, 333-376.	2.3	72
60	An experimental and theoretical investigation into the electronically excited states of <i>para</i> -benzoquinone. <i>Journal of Chemical Physics</i> , 2017, 146, 184303.	3.0	12
61	Positron Scattering from Molecules: An Experimental Cross Section Compilation for Positron Transport Studies and Benchmarking Theory. <i>Journal of Physical and Chemical Reference Data</i> , 2017, 46, .	4.2	60
62	Spatial profiles of positrons injected at low energies into water: influence of cross section models. <i>Plasma Sources Science and Technology</i> , 2017, 26, 045010.	3.1	14
63	Low energy electron transport in furfural. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	18
64	Adiabatic-nuclei calculations of positron scattering from molecular hydrogen. <i>Physical Review A</i> , 2017, 95, .	2.5	27
65	Total cross section of furfural by electron impact: Experiment and theory. <i>Journal of Chemical Physics</i> , 2017, 147, 054301.	3.0	14
66	Self-consistency of electron-THF cross sections using electron swarm techniques. <i>Journal of Chemical Physics</i> , 2017, 147, 195103.	3.0	24
67	Total cross sections for electron scattering by 1-propanol at impact energies in the range 40-500 eV. <i>Journal of Chemical Physics</i> , 2017, 147, 194307.	3.0	8
68	LXCat: an Open–Access, Web–Based Platform for Data Needed for Modeling Low Temperature Plasmas. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600098.	3.0	188
69	Elastic scattering and vibrational excitation for electron impact on <i>para</i> -benzoquinone. <i>Journal of Chemical Physics</i> , 2017, 147, 244304.	3.0	13
70	Electron impact ionization of 1-propanol. <i>International Journal of Mass Spectrometry</i> , 2017, 422, 32-41.	1.5	23
71	Quasi-four-particle first-order Faddeev-Watson-Lovelace terms in proton-helium scattering. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	2
72	Experimental and theoretical cross sections for positron scattering from the pentane isomers. <i>Journal of Chemical Physics</i> , 2016, 144, 084301.	3.0	18

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73	Valence and lowest Rydberg electronic states of phenol investigated by synchrotron radiation and theoretical methods. <i>Journal of Chemical Physics</i> , 2016, 145, 034302.	3.0	7
74	Electron impact ionization dynamics of <i>para</i> -benzoquinone. <i>Journal of Chemical Physics</i> , 2016, 145, 164306.	3.0	21
75	The electron-furfural scattering dynamics for 63 energetically open electronic states. <i>Journal of Chemical Physics</i> , 2016, 144, 124310.	3.0	23
76	Integral elastic, electronic-state, ionization, and total cross sections for electron scattering with furfural. <i>Journal of Chemical Physics</i> , 2016, 144, 144303.	3.0	16
77	<i>Ab initio</i> electron scattering cross-sections and transport in liquid xenon. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 355201.	2.8	26
78	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.	3.0	11
79	Electron collisions in atmospheres. <i>International Reviews in Physical Chemistry</i> , 2016, 35, 297-351.	2.3	67
80	Electron impact ionisation and fragmentation of methanol and ethanol. <i>International Journal of Mass Spectrometry</i> , 2016, 404, 48-59.	1.5	41
81	A technique to determine the thermal stability of uracil and uracil derivatives in a molecular beam. <i>International Journal of Mass Spectrometry</i> , 2016, 409, 73-80.	1.5	8
82	Electron scattering by biomass molecular fragments: useful data for plasma applications?. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	31
83	Scattering data for modelling positron tracks in gaseous and liquid water. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 145001.	1.5	47
84	Investigating the role of vibrational excitation in simulating charged-particle tracks in liquid pyrimidine. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	22
85	Positron kinetics in an idealized PET environment. <i>Scientific Reports</i> , 2015, 5, 12674.	3.3	23
86	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.	3.0	19
87	Electron- and photon-impact ionization of furfural. <i>Journal of Chemical Physics</i> , 2015, 143, 184310.	3.0	24
88	Positron scattering from Biomolecules. <i>Journal of Physics: Conference Series</i> , 2015, 635, 072038.	0.4	0
89	Electron impact cross-sections for biomolecules - completeness and self-consistency via swarm analysis. <i>Journal of Physics: Conference Series</i> , 2015, 635, 072079.	0.4	0
90	Excitation of vibrational quanta in furfural by intermediate-energy electrons. <i>Journal of Chemical Physics</i> , 2015, 143, 224304.	3.0	9

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91	Three-body treatment of the Z-dependence for excitation cross sections in $Aq^+ + H(1s)$ collisions \hat{a}^{ϵ} Excitation from the ground to the 2s and 3s states. <i>European Physical Journal D</i> , 2015, 69, 1.	1.3	0
92	Cross sections for positron and electron collisions with an analog of the purine nucleobases: Indole. <i>Physical Review A</i> , 2015, 91, .	2.5	9
93	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.	3.0	44
94	Differential cross sections for electron impact excitation of the electronic bands of phenol. <i>Journal of Chemical Physics</i> , 2015, 142, 104305.	3.0	25
95	Past successes and future prospects for experimental electron scattering from fluorocarbon radicals. , 2015, , .		0
96	N ₂ state population in Titan's atmosphere. <i>Icarus</i> , 2015, 260, 29-59.	2.5	15
97	Integral cross sections for electron impact excitation of vibrational and electronic states in phenol. <i>Journal of Chemical Physics</i> , 2015, 142, 194305.	3.0	15
98	The role of pyrimidine and water as underlying molecular constituents for describing radiation damage in living tissue: A comparative study. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	48
99	Intermediate energy electron impact excitation of composite vibrational modes in phenol. <i>Journal of Chemical Physics</i> , 2015, 142, 194302.	3.0	12
100	Differential cross sections for electron-impact vibrational-excitation of tetrahydrofuran at intermediate impact energies. <i>Journal of Chemical Physics</i> , 2015, 142, 124306.	3.0	15
101	The role of electron-impact vibrational excitation in electron transport through gaseous tetrahydrofuran. <i>Journal of Chemical Physics</i> , 2015, 142, 124307.	3.0	27
102	Intermediate energy cross sections for electron-impact vibrational-excitation of pyrimidine. <i>Journal of Chemical Physics</i> , 2015, 143, 094304.	3.0	11
103	Low energy elastic electron scattering from CF ₃ Br molecules. <i>Journal of Chemical Physics</i> , 2015, 142, 124310.	3.0	4
104	Recent progress in electron scattering from atoms and molecules. , 2014, , .		2
105	Kinetic Phenomena in Transport of Electrons and Positrons in Gases caused by the Properties of Scattering Cross Sections. <i>Journal of Physics: Conference Series</i> , 2014, 488, 012047.	0.4	2
106	Positron interactions with water—total elastic, total inelastic, and elastic differential cross section measurements. <i>Journal of Chemical Physics</i> , 2014, 140, 044320.	3.0	32
107	Low energy positron interactions with uracil—Total scattering, positronium formation, and differential elastic scattering cross sections. <i>Journal of Chemical Physics</i> , 2014, 141, 034306.	3.0	23
108	An experimental and theoretical investigation into the excited electronic states of phenol. <i>Journal of Chemical Physics</i> , 2014, 141, 074314.	3.0	34

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109	Electron drift velocities in He and water mixtures: Measurements and an assessment of the water vapour cross-section sets. <i>Journal of Chemical Physics</i> , 2014, 141, 014308.	3.0	41
110	Differential cross sections for intermediate-energy electron scattering from $\hat{1}\pm$ -tetrahydrofurfuryl alcohol: Excitation of electronic-states. <i>Journal of Chemical Physics</i> , 2014, 141, 024301.	3.0	23
111	Electronic States of Tetrahydrofurfuryl Alcohol (THFA) As Studied by VUV Spectroscopy and Ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6425-6434.	2.5	16
112	Intermediate-energy differential and integral cross sections for vibrational excitation in $\hat{1}\pm$ -tetrahydrofurfuryl alcohol. <i>Journal of Chemical Physics</i> , 2014, 140, 214306.	3.0	13
113	Triply differential (e,2e) studies of phenol. <i>Journal of Chemical Physics</i> , 2014, 141, 124307.	3.0	30
114	Dynamical (e,2e) studies of tetrahydropyran and 1,4-dioxane. <i>Journal of Chemical Physics</i> , 2014, 140, 214312.	3.0	15
115	Differential and integral electron scattering cross sections from tetrahydrofuran (THF) over a wide energy range: $1\hat{1}\epsilon^{\prime}10\ 000\ \text{eV}$. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	29
116	Cross Sections for Positron Impact with 2,2,4-Trimethylpentane. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6466-6472.	2.5	7
117	Electron swarm transport in THF and water mixtures. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	36
118	Current prospects on Low Energy Particle Track Simulation for biomedical applications. <i>Applied Radiation and Isotopes</i> , 2014, 83, 159-164.	1.5	17
119	On the use of Monte Carlo simulations to model transport of positrons in gases and liquids. <i>Applied Radiation and Isotopes</i> , 2014, 83, 148-154.	1.5	28
120	Negative ion formation through dissociative electron attachment to the group IV tetrabromides: Carbon tetrabromide, silicon tetrabromide and germanium tetrabromide. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 275-280.	1.5	6
121	Cross sections for electron scattering from $\hat{1}\pm$ -tetrahydrofurfuryl alcohol. <i>Chemical Physics Letters</i> , 2014, 608, 161-166.	2.6	17
122	Low-energy electron and positron transport in gases and soft-condensed systems of biological relevance. <i>Applied Radiation and Isotopes</i> , 2014, 83, 77-85.	1.5	51
123	Total electron scattering cross sections for pyrimidine and pyrazine as measured using a magnetically confined experimental system. <i>Journal of Physics: Conference Series</i> , 2014, 488, 012048.	0.4	0
124	Electron interactions with Radicals of Technological Interest. <i>Journal of Physics: Conference Series</i> , 2014, 488, 052002.	0.4	0
125	Low-energy positron and electron scattering from tetrahydrofuran and 3-hydroxy-tetrahydrofuran. <i>Journal of Physics: Conference Series</i> , 2014, 488, 072007.	0.4	0
126	Positron scattering from vinyl acetate. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 175202.	1.5	6

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127	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
128	Anomalously large low-energy elastic cross sections for electron scattering from the CF ₃ radical. Chemical Physics Letters, 2013, 568-569, 55-58.	2.6	17
129	Interaction model for electron scattering from ethylene in the energy range 1â€“10000eV. Chemical Physics Letters, 2013, 560, 22-28.	2.6	11
130	Resolution of a significant discrepancy in the electron impact excitation of the Si^5 . <small>xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.gif" overflow="scroll"><mml:mrow><mml:mn>3</mml:mn><mml:mi>s</mml:mi><mml:msub><mml:mrow><mml:mo stretchy="false">[</mml:mo><mml:mn>3</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn><mml:mo stretchy="false">]</mml:mo></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:math></small>	2.6	9
131	Differential cross sections for low-energy elastic electron scattering from the CF ₃ radical. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 245203.	1.5	19
132	Low-energy positron scattering from iodomethane. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 175202.	1.5	8
133	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
134	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
135	A joint theoretical and experimental study for elastic electron scattering from 1,4-dioxane. Journal of Chemical Physics, 2013, 139, 014308.	3.0	17
136	Dynamical (e,2e) investigations of tetrahydrofuran and tetrahydrofurfuryl alcohol as DNA analogues. Chemical Physics Letters, 2013, 572, 32-37.	2.6	39
137	Total, elastic, and inelastic cross sections for positron and electron collisions with tetrahydrofuran. Journal of Chemical Physics, 2013, 138, 074301.	3.0	52
138	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
139	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
140	Modelling of plasma processes in cometary and planetary atmospheres. Plasma Sources Science and Technology, 2013, 22, 013002.	3.1	65
141	Experimental and theoretical cross sections for positron collisions with 3-hydroxy-tetrahydrofuran. Journal of Chemical Physics, 2013, 138, 074302.	3.0	20
142	Electron impact excitation of the low-lying $3s[3/2]1$ and $3s^2[1/2]1$ levels in neon for incident energies between 20 and 300 eV. Journal of Chemical Physics, 2013, 139, 184301.	3.0	10
143	Cross sections for elastic scattering of electrons by CF ₃ Cl, CF ₂ Cl ₂ , and CFCI ₃ . Journal of Chemical Physics, 2013, 138, 214305.	3.0	12
144	Low-energy positron and electron scattering from nitrogen dioxide. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 235202.	1.5	19

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145	An investigation into electron scattering from pyrazine at intermediate and high energies. Journal of Chemical Physics, 2013, 139, 184310.	3.0	32
146	Total electron-scattering cross sections from pyrimidine as measured using a magnetically confined experimental system. Physical Review A, 2013, 88, .	2.5	56
147	A comprehensive and comparative study of elastic electron scattering from OCS and CS ₂ in the energy region from 1.2 to 200 eV. Journal of Chemical Physics, 2013, 138, 054302.	3.0	21
148	Transport properties of electron swarms in tetrahydrofuran under the influence of an applied electric field. Physical Review A, 2013, 88, .	2.5	29
149	Positron scattering from pyrimidine. Physical Review A, 2013, 88, .	2.5	28
150	Positron and electron collisions with nitrous oxide: Measured and calculated cross sections. Physical Review A, 2013, 88, .	2.5	16
151	Cross sections for positron scattering from ethane. Physical Review A, 2013, 87, .	2.5	13
152	Atomic Scattering Data and Their Evaluation: Strategies for Obtaining Complete Cross-Section Sets for Electron Collision Processes. Fusion Science and Technology, 2013, 63, 385-391.	1.1	8
153	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
154	Application of Haar multi-resolution analysis in subspace V^2 to calculate Faddeev partial amplitudes of electron transfer in three-body proton-hydrogen scattering. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 165201.	1.5	1
155	Positron scattering from O ₂ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 215206.	1.5	62
156	Polarization of Lyman- $\hat{\pm}$ and Balmer- $\hat{\pm}$ emission in proton-hydrogen collisions: a study using first-order Born-Faddeev-type equations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 205201.	1.5	5
157	Vibrational excitation of triatomic molecules near the shape resonance region. Journal of Physics: Conference Series, 2012, 388, 052046.	0.4	0
158	Positron scattering from the cyclic ethers oxirane, 1,4-dioxane, and tetrahydropyran. Journal of Chemical Physics, 2012, 136, 124305.	3.0	16
159	Positron scattering from chiral enantiomers. Physical Review A, 2012, 85, .	2.5	17
160	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
161	Modelling low energy electron and positron tracks for biomedical applications. International Journal of Radiation Biology, 2012, 88, 71-76.	1.8	80
162	Electron scattering from tetrahydrofuran. Journal of Physics: Conference Series, 2012, 388, 052077.	0.4	0

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164	Electron interactions with tetrahydrofuran. Journal of Physics: Conference Series, 2012, 373, 012010.	0.4	13
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