

Kate L Nixon

List of Publications by Year in descending order

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50
papers

776
citations

430442

18
h-index

552369

26
g-index

51
all docs

51
docs citations

51
times ranked

361
citing authors

#	ARTICLE	IF	CITATIONS
1	Total and positronium formation cross sections for positron scattering from H_2O and $HCOOH$. <i>New Journal of Physics</i> , 2009, 11, 103036.	1.2	63
2	Norbornane: An investigation into its valence electronic structure using electron momentum spectroscopy, and density functional and Green's function theories. <i>Journal of Chemical Physics</i> , 2004, 121, 10525-10541.	1.2	43
3	Electron impact ionisation and fragmentation of methanol and ethanol. <i>International Journal of Mass Spectrometry</i> , 2016, 404, 48-59.	0.7	41
4	Total cross sections for positron scattering from H_2O at low energies. <i>Physical Review A</i> , 2009, 80, .	1.0	37
5	Triply differential (e,2e) studies of phenol. <i>Journal of Chemical Physics</i> , 2014, 141, 124307.	1.2	30
6	Investigation into the Valence Electronic Structure of Norbornene Using Electron Momentum Spectroscopy, Green's Function, and Density Functional Theories. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9324-9340.	1.1	28
7	Positron scattering from formic acid. <i>Physical Review A</i> , 2008, 78, .	1.0	28
8	Low-energy symmetric coplanar and symmetric non-coplanar (e,2e) studies from the $3a_1$ state of H_2O . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 035201.	0.6	28
9	Low energy (e,2e) studies from CH_4 : Results from symmetric coplanar experiments and molecular three-body distorted wave theory. <i>Journal of Chemical Physics</i> , 2011, 134, 174304.	1.2	28
10	Low energy (e,2e) measurements of CH_4 and neon in the perpendicular plane. <i>Journal of Chemical Physics</i> , 2012, 136, 094302.	1.2	28
11	Differential cross sections for electron impact excitation of the electronic bands of phenol. <i>Journal of Chemical Physics</i> , 2015, 142, 104305.	1.2	25
12	The electronic band structure of Li_2O : testing theoretical predictions using electron momentum spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 3587-3598.	0.7	24
13	Low energy (e,2e) studies of the noble gases in the perpendicular plane. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 085202.	0.6	24
14	Electron- and photon-impact ionization of furfural. <i>Journal of Chemical Physics</i> , 2015, 143, 184310.	1.2	24
15	Comparison of experimental and theoretical electron-impact-ionization triple-differential cross sections for ethane. <i>Physical Review A</i> , 2015, 92, .	1.0	23
16	Electron impact ionization of 1-propanol. <i>International Journal of Mass Spectrometry</i> , 2017, 422, 32-41.	0.7	23
17	Low energy (e,2e) coincidence studies of NH_3 : Results from experiment and theory. <i>Journal of Chemical Physics</i> , 2013, 138, 174304.	1.2	21
18	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.	0.7	19

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19	An electron momentum spectroscopy and density functional theory study of the outer valence electronic structure of stella-2,6-dione. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 3155-3171.	0.6	18
20	Differential Cross Sections for Ionization of Laser-Aligned Atoms by Electron Impact. <i>Physical Review Letters</i> , 2011, 106, 123201.	2.9	15
21	Electron momentum spectroscopy of formic acid. <i>Chemical Physics Letters</i> , 2009, 474, 23-27.	1.2	14
22	Electron impact excitation of the $\tilde{A}^1 3B_1$ electronic state in C ₂ H ₄ : An experimentally benchmarked system?. <i>Journal of Chemical Physics</i> , 2012, 136, 184313.	1.2	14
23	Electron momentum spectroscopy and linear combination of atomic orbitals calculation of bulk Na ₂ O. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 2155-2168.	0.7	13
24	Low-energy positron scattering from methanol and ethanol: Total cross sections. <i>Physical Review A</i> , 2008, 78, .	1.0	13
25	Modelling low energy electron interactions for biomedical uses of radiation. <i>Journal of Physics: Conference Series</i> , 2009, 194, 012028.	0.3	13
26	An (e,2e) coincidence study of formic acid monomer and dimer. <i>Chemical Physics Letters</i> , 2008, 451, 18-24.	1.2	12
27	ionization studies of the stable noble gases in a coplanar symmetric geometry. <i>Physical Review A</i> , 2013, 87, .	1.0	12
28	Parametrization of Electron-Impact Ionization Cross Sections from Laser-Excited and Aligned Atoms. <i>Physical Review Letters</i> , 2014, 112, 023202.	2.9	12
29	Intermediate energy electron impact excitation of composite vibrational modes in phenol. <i>Journal of Chemical Physics</i> , 2015, 142, 194302.	1.2	12
30	Mapping the xenon(e,2e)differential cross section from coplanar to perpendicular geometries. <i>Physical Review A</i> , 2012, 85, .	1.0	11
31	Interaction model for electron scattering from ethylene in the energy range 1â€“10000eV. <i>Chemical Physics Letters</i> , 2013, 560, 22-28.	1.2	11
32	Theoretical and experimental of electron-impact ionization of laser-aligned Mg atoms. <i>Physical Review A</i> , 2014, 90, .	1.0	11
33	Intermediate energy cross sections for electron-impact vibrational-excitation of pyrimidine. <i>Journal of Chemical Physics</i> , 2015, 143, 094304.	1.2	11
34	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.	0.7	11
35	Low-Energy Positron Scattering from Dihydropyran. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14251-14254.	1.1	9
36	Evidence for unnatural-parity contributions to electron-impact ionization of laser-aligned atoms. <i>Physical Review A</i> , 2015, 92, .	1.0	5

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37	Thermal desorption effects on fragment ion production from multi-photon ionized uridine and selected analogues. RSC Advances, 2021, 11, 20612-20621.	1.7	5
38	New magnetic dipole transition of the oxygen molecule: $\text{B}^2\Sigma^+ \rightarrow \text{X}^2\Sigma^+ (0,0)$. Journal of Chemical Physics, 2002, 116, 5503-5508.	1.2	3
39	Measuring the electronic structure of disordered overlayers by electron momentum spectroscopy: the Cu/Si interface. Surface and Interface Analysis, 2006, 38, 1236-1241.	0.8	3
40	Superelastic electron collisions with silver: Measuring the angular momentum transferred to the target during the collision. Physical Review A, 2013, 87, .	1.0	3
41	Comparison of experiment and theory for superelastic electron-collision studies from laser-aligned magnesium. Physical Review A, 2018, 98, .	1.0	2
42	Towards Electron Momentum Spectroscopy Studies of Clusters: A New Apparatus. AIP Conference Proceedings, 2006, , .	0.3	1
43	Sulphur hexafluoride: low energy (e,2e) experiments and molecular three-body distorted wave theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 195203.	0.6	1
44	Electron momentum spectroscopy in the study of intermolecular interactions. Journal of Physics: Conference Series, 2008, 141, 012011.	0.3	0
45	Recent theoretical progress in treating electron impact ionization of molecules. Journal of Physics: Conference Series, 2010, 212, 012004.	0.3	0
46	(e,2e) measurements from laser aligned Mg atoms. Journal of Physics: Conference Series, 2012, 388, 042042.	0.3	0
47	Electron impact ionization and excitation studies of laser prepared atomic targets. Journal of Physics: Conference Series, 2012, 388, 012009.	0.3	0
48	Low energy (e,2e) measurements of Xe in the symmetric non-coplanar geometry. Journal of Physics: Conference Series, 2012, 388, 042040.	0.3	0
49	Comparison of Experiment and Theory for Electron Impact Ionization of Isoelectronic Atoms and Molecules. Journal of Physics: Conference Series, 2012, 388, 052054.	0.3	0
50	Natural & unnatural-parity contributions in electron-impact ionization of laser-aligned atoms.. Journal of Physics: Conference Series, 2017, 875, 012002.	0.3	0