

Robert Lucchese

List of Publications by Year in descending order

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347
papers

8,820
citations

53939

47
h-index

87275

74
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360
all docs

360
docs citations

360
times ranked

3403
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric Attosecond Photoionization in Molecular Shape Resonance. <i>Physical Review X</i> , 2022, 12, .	2.8	24
2	Attosecond spectroscopy of size-resolved water clusters. <i>Nature</i> , 2022, 609, 507-511.	13.7	28
3	Coupled nuclearâ€“electronic decay dynamics of O_{2} inner valence excited states revealed by attosecond XUV wave-mixing spectroscopy. <i>Faraday Discussions</i> , 2021, 228, 537-554.	1.6	11
4	Two-dimensional phase cartography for high-harmonic spectroscopy. <i>Optica</i> , 2021, 8, 308.	4.8	4
5	Correlated variational treatment of ionization coupled to nuclear motion: Ultrafast pump and ionizing probe of electronic and nuclear dynamics in LiH. <i>Physical Review Research</i> , 2021, 3, .	1.3	7
6	Strong-field ionization of water. II. Electronic and nuclear dynamics en route to double ionization. <i>Physical Review A</i> , 2021, 104, .	1.0	16
7	Nonequilibrium dissociative dynamics of D_2 in two-color, few-photon excitation and ionization. <i>Physical Review Research</i> , 2021, 3, .	1.3	3
8	Influence of shape resonances on the angular dependence of molecular photoionization delays. <i>Nature Communications</i> , 2021, 12, 7343.	5.8	27
9	Validity of the static-exchange approximation for inner-shell photoionization of polyatomic molecules. <i>Physical Review A</i> , 2020, 102, .	1.0	4
10	Rescattering photoelectron spectroscopy of CO_2 molecule with an analytical returning electron wavepacket. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 092014.	0.3	0
11	Distinguishing resonance symmetries with energy-resolved photoion angular distributions from ion-pair formation in O_2 following two-photon absorption of a 9.3 eV femtosecond pulse. <i>Journal of Chemical Physics</i> , 2020, 153, 021103.	1.2	7
12	Two-photon double photoionization of atomic Mg by ultrashort pulses: Variation of angular distributions with pulse length. <i>Physical Review A</i> , 2020, 102, .	1.0	1
13	Role of dipole-forbidden autoionizing resonances in nonresonant one-color two-photon single ionization of N_2 . <i>Physical Review A</i> , 2020, 102, 043403.	1.0	4
14	Photoelectron and fragmentation dynamics of the H_2^+ dissociative channel in H_2 . <i>Physical Review A</i> , 2020, 102, 043403.	1.3	4
15	Mechanisms and dynamics of the NH_3^+ and NH_3^{2+} fragmentation channels upon single-photon double ionization of NH_3 . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 244003.	0.6	3
16	Roadmap on photonic, electronic and atomic collision physics: I. Lightâ€“matter interaction. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019, 52, 171001.	0.6	52
17	Rescattering photoelectron spectroscopy of the CO_2 molecule: Progress towards experimental discrimination between theoretical target-structure models. <i>Physical Review A</i> , 2019, 100, .	1.0	9
18	Ultrafast Rydberg-state dissociation in oxygen: Identifying the role of multielectron excitations. <i>Physical Review A</i> , 2019, 99, .	1.0	11

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19	Probing molecular bond-length using molecular-frame photoelectron angular distributions. Journal of Chemical Physics, 2019, 150, 174306.	1.2	21
20	Dissociative photoionization of NO across a shape resonance in the XUV range using circularly polarized synchrotron radiation. Journal of Chemical Physics, 2019, 151, 174305.	1.2	9
21	Low to intermediate energy elastic electron scattering from dichloromethane (CH ₂ Cl ₂). Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 025204.	0.6	8
22	Canonical Approach To Generate Multidimensional Potential Energy Surfaces. Journal of Physical Chemistry A, 2019, 123, 537-543.	1.1	2
23	Role of initial-state electron correlation in one-photon double ionization of atoms and molecules. Physical Review A, 2019, 99, .	1.0	3
24	The Connection between Resonances and Bound States in the Presence of a Coulomb Potential. Journal of Physical Chemistry A, 2019, 123, 82-95.	1.1	0
25	6.2 eV spectrum and 6-dimensional morphed potentials of OC-H ₂ O. Chemical Physics, 2018, 501, 35-45.	0.9	10
26	Changes in site-specific shape resonances in nitrogen K-shell photoionization of N ₂ O induced by vibrational excitation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 065402.	0.6	1
27	Dissociation dynamics of the water dication following one-photon double ionization. I. Theory. Physical Review A, 2018, 98, .	1.0	25
28	Resonance signatures in the body-frame valence photoionization of CF ₄ . Physical Chemistry Chemical Physics, 2018, 20, 21075-21084.	1.3	10
29	Precise Access to the Molecular-Frame Complex Recombination Dipole through High-Harmonic Spectroscopy. Physical Review Letters, 2017, 118, 033201.	2.9	14
30	Is there any fundamental difference between ionic, covalent, and others types of bond? A canonical perspective on the question. Physical Chemistry Chemical Physics, 2017, 19, 15864-15869.	1.3	15
31	Unambiguous observation of F-atom core-hole localization in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{CF} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{ through body-frame photoelectron angular distributions. Physical Review A, 2017, 95, .$	1.0	14
32	Probing autoionizing states of molecular oxygen with XUV transient absorption: Electronic-symmetry-dependent line shapes and laser-induced modifications. Physical Review A, 2017, 95, .	1.0	28
33	Spectral dependence of photoemission in multiphoton ionization of NO ₂ by femtosecond pulses in the 375-430 nm range. Physical Chemistry Chemical Physics, 2017, 19, 21996-22007.	1.3	4
34	Extraction of geometrical structure of ethylene molecules by laser-induced electron diffraction combined with <i>ab initio</i> scattering calculations. Physical Review A, 2017, 96, .	1.0	12
35	Variational treatment of electron-atom scattering calculations using adaptive overset grids. Physical Review A, 2017, 96, .	1.0	8
36	Retrieving transient conformational molecular structure information from inner-shell photoionization of laser-aligned molecules. Scientific Reports, 2016, 6, 23655.	1.6	9

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37	High order harmonic generation from SF ₆ : Deconvolution of macroscopic effects. Journal of Chemical Physics, 2016, 145, 224305.	1.2	4
38	Canonical Force Distributions in Pairwise Interatomic Interactions from the Perspective of the Hellmann-Feynman Theorem. Journal of Physical Chemistry A, 2016, 120, 3718-3725.	1.1	4
39	A canonical approach to multi-dimensional van der Waals, hydrogen-bonded, and halogen-bonded potentials. Chemical Physics, 2016, 469-470, 60-64.	0.9	6
40	A canonical approach to forces in molecules. Chemical Physics, 2016, 474, 52-58.	0.9	7
41	Morse, Lennard-Jones, and Kratzer Potentials: A Canonical Perspective with Applications. Journal of Physical Chemistry A, 2016, 120, 8347-8359.	1.1	12
42	Electron interaction with dimethyl disulfide in the low- and intermediate-energy range. Physical Review A, 2016, 94, .	1.0	8
43	Electron collisions with small esters: A joint experimental-theoretical investigation. Physical Review A, 2016, 93, .	1.0	7
44	Probing and extracting the structure of vibrating SF_6 with inner-shell photoelectrons. Physical Review A, 2016, 93, .	1.0	8
45	Effects of molecular rotation after ionization and prior to fragmentation on observed recoil-frame photoelectron angular distributions in the dissociative photoionization of nonlinear molecules. Physical Review A, 2016, 93, .	1.0	0
46	Resonancelike enhancement in high-order above-threshold ionization of polyatomic molecules. Physical Review A, 2016, 93, .	1.0	11
47	Molecular frame photoemission by a comb of elliptical high-order harmonics: a sensitive probe of both photodynamics and harmonic complete polarization state. Faraday Discussions, 2016, 194, 161-183.	1.6	18
48	Canonical Approaches to Applications of the Virial Theorem. Journal of Physical Chemistry A, 2016, 120, 817-823.	1.1	8
49	Retrieval of Geometrical Structure of Molecules by Intense NIR Laser Induced Electron Rescattering. , 2016, , .		0
50	Theoretical and experimental investigation of electron collisions with acetone. Physical Review A, 2015, 92, .	1.0	11
51	High-resolution vacuum-ultraviolet photoabsorption spectra of 1-butyne and 2-butyne. Journal of Chemical Physics, 2015, 143, 034304.	1.2	7
52	A study of the dynamical energy flow in uracil. Journal of Physics: Conference Series, 2015, 635, 112062.	0.3	6
53	Intense near-IR laser induced electron-ion scattering experiment on hydrocarbon molecules. Journal of Physics: Conference Series, 2015, 635, 112029.	0.3	0
54	Molecular frame photoemission: a sensitive probe of the complete polarization state of high harmonic generation. Journal of Physics: Conference Series, 2015, 635, 112140.	0.3	0

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55	Vibrational effects in the shape resonant photoionization leading to the A ₂ T ₁ state of SF ₆ ⁺ . Chemical Physics, 2015, 447, 64-70.	0.9	9
56	Rovibrational analysis of the water bending vibration in the mid-infrared spectrum of atmospherically significant N ₂ ••H ₂ O complex. Chemical Physics Letters, 2015, 633, 229-233.	1.2	6
57	Experimental confirmation of ground state isotopic isomerization from OC••HI to OC••ID. Chemical Physics Letters, 2015, 619, 174-179.	1.2	0
58	Theoretical and experimental investigation of electron collisions with dimethyl sulfide. Physical Review A, 2015, 91, .	1.0	12
59	Canonical Potentials and Spectra within the Born••Oppenheimer Approximation. Journal of Physical Chemistry A, 2015, 119, 6753-6758.	1.1	13
60	A general transformation to canonical form for potentials in pairwise interatomic interactions. Physical Chemistry Chemical Physics, 2015, 17, 14805-14810.	1.3	12
61	A Near-Threshold Shape Resonance in the Valence-Shell Photoabsorption of Linear Alkynes. Journal of Physical Chemistry A, 2015, 119, 12339-12348.	1.1	7
62	From H ₂ ⁺ to the multidimensional potential of the intermolecular interaction Ar••HBr: A canonical approach. Chemical Physics Letters, 2015, 639, 63-66.	1.2	6
63	Interchannel coupling effects in the valence photoionization of SF ₆ . Journal of Chemical Physics, 2014, 140, 204305.	1.2	21
64	Recoil frame photoemission in multiphoton ionization of small polyatomic molecules: photodynamics of NO ₂ probed by 400 nm fs pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124024.	0.6	9
65	Electron collisions with ammonia and formamide in the low- and intermediate-energy ranges. Physical Review A, 2014, 90, .	1.0	22
66	Rescattering photoelectron spectroscopy of small molecules. Journal of Electron Spectroscopy and Related Phenomena, 2014, 195, 313-319.	0.8	9
67	High-resolution photoabsorption spectrum of jet-cooled propyne. Journal of Chemical Physics, 2014, 141, 114303.	1.2	11
68	Vibrationally specific photoionization cross sections of acrolein leading to the X ¹ fA ² ionic state. Journal of Chemical Physics, 2014, 141, 094301.	1.2	3
69	A Unified Perspective on the Nature of Bonding in Pairwise Interatomic Interactions. Journal of Physical Chemistry A, 2014, 118, 6287-6298.	1.1	16
70	Cross sections for electron scattering by methylfluoride (CH ₃ F) in the low- and intermediate-energy ranges. Journal of Electron Spectroscopy and Related Phenomena, 2014, 193, 16-20.	0.8	0
71	Interference of Two Shape Resonances Probed by Rescattering Photoelectron Spectroscopy of CO ₂ . Journal of Physics: Conference Series, 2014, 488, 032024.	0.3	0
72	Laser Induced Rescattering Photoelectron Spectroscopy on Hydrocarbon Molecules. , 2014, , .		1

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73	Laser induced rescattering photoelectron spectroscopy of CO ₂ molecule. , 2014, , .		0
74	High-order-harmonic generation from molecular isomers with midinfrared intense laser pulses. Physical Review A, 2013, 88, .	1.0	10
75	The Badger-Bauer Rule Revisited: Correlation of Proper Blue Frequency Shifts in the OC Hydrogen Acceptor with Morphed Hydrogen Bond Dissociation Energies in OC-HX (X = F, Cl, Br, I, CN, CCH). Journal of Physical Chemistry A, 2013, 117, 8477-8483.	1.1	26
76	Study of resonances in the photoionization of Ar@C ₆₀ and C ₆₀ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 215103.	0.6	11
77	Compound model-morphed potentials contrasting OC- ⁷⁹ Br ³⁵ Cl with the halogen bonded OC- ³⁵ Cl ₂ and hydrogen-bonded OC-HX (X= ¹⁹ F, ³⁵ Cl, ⁷⁹ Br). Chemical Physics, 2013, 425, 162-169.	0.9	9
78	Electron scattering from gas phase cis-diamminedichloroplatinum(II): Quantum analysis of resonance dynamics. Journal of Chemical Physics, 2013, 138, 204308.	1.2	2
79	The role of Rydberg states in photoionization of NO ₂ and (NO ⁺) ₂ . Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 044311.	1.2	9
80	Cross sections for electron collisions with dimethyl ether. Physical Review A, 2013, 88, .	1.0	22
81	Quantitative rescattering theory of high-order harmonic generation for polyatomic molecules. Physical Review A, 2013, 87, .	1.0	33
82	Cross sections for electron scattering by formaldehyde and pyrimidine in the low- and intermediate-energy ranges. Physical Review A, 2013, 87, .	1.0	23
83	High-Harmonic Probing of Electronic Coherence in Dynamically Aligned Molecules. Physical Review Letters, 2013, 111, 243005.	2.9	56
84	High Harmonic Spectroscopy of the Cooper Minimum in Molecules. Physical Review Letters, 2013, 110, 033006.	2.9	61
85	Complete determination of the state of elliptically polarized light by electron-ion vector correlations. Physical Review A, 2013, 88, .	1.0	16
86	Molecular-frame photoelectron angular distributions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 190201.	0.6	13
87	Extraction of electron-ion differential scattering cross sections for C ₂ H ₄ by laser-induced rescattering photoelectron spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 131001.	0.6	32
88	Photoelectron kinetic and angular distributions for the ionization of aligned molecules using a HHG source. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 074016.	0.6	25
89	Asymmetry in the molecular-frame photoelectron angular distribution for oxygen 1s photoemission from CO ₂ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 194014.	0.6	9
90	Valence and inner-valence shell dissociative photoionization of CO in the 26-33 eV range. II. Molecular-frame and recoil-frame photoelectron angular distributions. Journal of Chemical Physics, 2012, 136, 094303.	1.2	17

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91	Near-threshold shape resonance in the photoionization of 2-butyne. Journal of Chemical Physics, 2012, 136, 154303.	1.2	23
92	Electron scattering by methanol and ethanol: A joint theoretical-experimental investigation. Journal of Chemical Physics, 2012, 136, 114311.	1.2	34
93	Extracting Electron-Ion Differential Scattering Cross Sections for Partially Aligned Molecules by Laser-induced Rescattering Photoelectron Spectroscopy. Journal of Physics: Conference Series, 2012, 388, 032027.	0.3	0
94	Recoil-frame photoelectron angular distributions probing inner-valence dissociative ionization of carbon monoxide. Journal of Physics: Conference Series, 2012, 388, 022016.	0.3	0
95	Absorption effects in intermediate energy electron scattering by C_4H_{10} -butane (C_4H_{10}). Journal of Physics: Conference Series, 2012, 388, 052026.	0.3	0
96	Non-Resonant Breakdown of the Franck-Condon Approximation as Seen in Vibrational Branching Ratios. Journal of Physics: Conference Series, 2012, 388, 022061.	0.3	0
97	Studies of low-frequency intermolecular hydrogen-bonded vibrations using a continuous supersonic slit jet mid-infrared quantum cascade laser spectrometer. Chemical Physics, 2012, 409, 1-10.	0.9	8
98	Theory of High Harmonic Generation for Probing Time-Resolved Large-Amplitude Molecular Vibrations with Ultrashort Intense Lasers. Physical Review Letters, 2012, 109, 203004.	2.9	28
99	Intensity dependence of multiple orbital contributions and shape resonance in high-order harmonic generation of aligned N_2 molecules. Physical Review A, 2012, 85, .	1.0	62
100	Probing molecular frame photoelectron angular distributions via high-order harmonic generation from aligned molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 194010.	0.6	1
101	Predicted properties of the CO_2-HF isomer using a six-dimensional morphed potential. Journal of Molecular Structure, 2012, 1023, 43-48.	1.8	6
102	Mechanisms of Franck-Condon breakdown over a broad energy range in the valence photoionization of N_2 and CO . Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 211-218.	0.8	13
103	CMM-RS Potential for Characterization of the Properties of the Halogen-Bonded OC_2Cl_2 Complex, and a Comparison with Hydrogen-Bonded OC_2HCl . Journal of Physical Chemistry A, 2012, 116, 1213-1223.	1.1	17
104	Theoretical investigation on electron scattering by benzene in the intermediate-energy range. Chemical Physics, 2012, 393, 19-24.	0.9	7
105	Morphed intermolecular potential of $OC:HCCH$ complex based on infrared quantum cascade laser spectroscopy. Chemical Physics Letters, 2012, 522, 17-22.	1.2	7
106	Interatomic Electronic Decay Processes in Clusters. , 2012, , 57-95.		5
107	Photolysis of methane revisited at 121.6 nm and at 118.2 nm: quantum yields of the primary products, measured by mass spectrometry. Physical Chemistry Chemical Physics, 2011, 13, 8140.	1.3	50
108	High-order-harmonic generation using gas-phase H_2 molecules. Physical Review A, 2011, 83, .	1.0	17

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109	Infrared quantum cascade laser spectroscopy of low frequency vibrations of intermolecular complexes. , 2011, , .		1
110	XUV ionization of aligned molecules. Physical Review A, 2011, 84, .	1.0	33
111	Morphing a vibrationally-complete ground state potential for the hydrogen bond OCâ€“HF. Chemical Physics, 2011, 390, 42-50.	0.9	16
112	Attosecond control of dissociative ionization of O $\times 2$ molecules. Physical Review A, 2011, 84, .	1.0	64
113	Shape and Feshbach resonances in inner-shell photodetachment of negative ions. Journal of Electron Spectroscopy and Related Phenomena, 2011, 183, 64-69.	0.8	4
114	Separation of target structure and medium propagation effects in high-harmonic generation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 095601.	0.6	33
115	Extracting Electron-Ion Differential Scattering Cross Sections for Partially Aligned Molecules by Laser-Induced Rescattering Photoelectron Spectroscopy. Physical Review Letters, 2011, 106, 063001.	2.9	53
116	Paired hydrogen bonds in the hydrogen halide homodimer (HI) $\times 2$. Journal of Chemical Physics, 2011, 134, 064317.	1.2	5
117	Cross sections for electron scattering by propane in the low- and intermediate-energy ranges. Physical Review A, 2010, 82, .	1.0	25
118	Strong-field rescattering physicsâ€”self-imaging of a molecule by its own electrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 122001.	0.6	234
119	A New Java Program for Graphical Illustration of the Franckâ€”Condon Principle: Application to the I $\times 2$ Spectroscopy Experiment in the Undergraduate Physical Chemistry Laboratory. Journal of Chemical Education, 2010, 87, 345-345.	1.1	5
120	Polarization and ellipticity of high-order harmonics from aligned molecules generated by linearly polarized intense laser pulses. Physical Review A, 2010, 82, .	1.0	45
121	Theoretical study of photoelectron angular distributions in single-photon ionization of aligned $N \times 2$ and $CO \times 2$ molecules. Physical Review A, 2010, 82, .	1.0	26
122	Bending-induced diminution of shape resonances in the core-level absorption region of hot CO $\times 2$ and N $\times 2$ O. New Journal of Physics, 2010, 12, 123017.	1.2	3
123	A ground state morphed intermolecular potential for the hydrogen bonded and van der Waals isomers in OC:HI and a prediction of an anomalous deuterium isotope effect. Journal of Chemical Physics, 2010, 133, 184305.	1.2	11
124	Cross sections for electron scattering by ethane in the low- and intermediate-energy ranges. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 225202.	0.6	24
125	The effect of vibrational motion on the dynamics of shape resonant photoionization of BF $\times 3$ leading to the state of. Molecular Physics, 2010, 108, 1055-1067.	0.8	2
126	Ion Pair Formation in Multiphoton Excitation of NO $\times 2$ Using Linearly and Circularly Polarized Femtosecond Light Pulses: Kinetic Energy Distribution and Fragment Recoil Anisotropy. Journal of Physical Chemistry A, 2010, 114, 9902-9918.	1.1	9

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127	A four-dimensional compound-model morphed potential for the OC:HBr complex. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7258.	1.3	11
128	Probing Molecular Frame Photoionization via Laser Generated High-Order Harmonics from Aligned Molecules. <i>Physical Review Letters</i> , 2009, 102, 203001.	2.9	66
129	Vibrational branching ratios in the $(b2u)^{-1}$ photoionization of C ₆ F ₆ . <i>Journal of Chemical Physics</i> , 2009, 131, 044311.	1.2	7
130	Mode-specific photoionization dynamics of a simple asymmetric target: OCS. <i>Journal of Chemical Physics</i> , 2009, 130, 044302.	1.2	12
131	Cross sections and asymmetry parameters for photoionization of in the VUV region. <i>Chemical Physics</i> , 2009, 358, 96-102.	0.9	5
132	Recoil frame photoemission in inner-shell photoionization of small polyatomic molecules. <i>European Physical Journal: Special Topics</i> , 2009, 169, 85-93.	1.2	3
133	Uncovering multiple orbitals influence in high harmonic generation from aligned N ₂ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 211001.	0.6	54
134	Quantitative rescattering theory for high-order harmonic generation from molecules. <i>Physical Review A</i> , 2009, 80, .	1.0	315
135	Molecular frame photoemission in multiphoton ionization of small molecules induced by linearly and circularly polarized light. <i>Journal of Physics: Conference Series</i> , 2009, 194, 032043.	0.3	0
136	Cross sections and asymmetry parameters for photoionization from ground and triplet excited states of nitromethane. <i>Journal of Physics: Conference Series</i> , 2009, 194, 022075.	0.3	0
137	Using vibrational branching ratios to probe initial and final state effects in molecular photoionization. <i>Journal of Physics: Conference Series</i> , 2009, 194, 022056.	0.3	0
138	A parameterized compound-model chemistry for morphing the intermolecular potential of OCâ€“HCl. <i>Chemical Physics Letters</i> , 2008, 460, 352-358.	1.2	11
139	Probing the accuracy of the isomerization energy of the 3-D morphed potential of Arâ€“HBr. <i>Chemical Physics Letters</i> , 2008, 460, 525-530.	1.2	8
140	Correlationâ€“polarization effects in electron/positron scattering from acetylene: A comparison of computational models. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 425-434.	0.6	23
141	Measurements of molecular-frame Auger electron angular distributions at the CO C 1s ¹ resonance with high energy resolution. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 215101.	0.6	11
142	Vibrationally resolved partial cross sections and asymmetry parameters for nitrogen K-shell photoionization of the NO molecule. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 085105.	0.6	11
143	Ring-breaking electron attachment to uracil: Following bond dissociations via evolving resonances. <i>Journal of Chemical Physics</i> , 2008, 128, 174302.	1.2	57
144	Nitrogen K-shell photoelectron angular distribution from NO molecules in the molecular frame. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 045102.	0.6	12

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145	Positron scattering from C_{20} . Physical Review A, 2008, 78, .		
146	Molecular frame and recoil frame angular distributions in dissociative photoionization of small molecules. Journal of Physics: Conference Series, 2008, 141, 012009.	0.3	1
147	Quasibound continuum states in SiF_4 photoionization: Photoelectron-vibrational coupling. Journal of Chemical Physics, 2007, 126, 244309.	1.2	7
148	Molecular frame and recoil frame photoelectron angular distributions from dissociative photoionization of NO_2 . Journal of Chemical Physics, 2007, 126, 054307.	1.2	35
149	Vibrationally resolved photoionization dynamics of CF_4 in the DA12 state. Journal of Chemical Physics, 2007, 127, 044312.	1.2	3
150	Molecular-frame photoelectron and electron-frame photoion angular distributions and their interrelation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 485-496.	0.6	25
151	Shape resonances in K -shell photodetachment of small size-selected clusters: Experiment and theory. Physical Review A, 2007, 76, .	1.0	6
152	Vibrationally resolved partial cross sections and asymmetry parameters for nitrogen K -shell photoionization of the N_2 molecule. Physical Review A, 2007, 76, .	1.0	28
153	Photoemission in the NO molecular frame induced by soft-x-ray elliptically polarized light above the $N(1s)$ and $O(1s)$ ionization thresholds. Physical Review A, 2007, 75, .	1.0	20
154	Electron-Driven Molecular Processes Induced in Biological Systems by Electromagnetic and Other Ionizing Sources. Advances in Quantum Chemistry, 2007, 52, 189-230.	0.4	14
155	Circular dichroism in molecular frame photoemission. Molecular Physics, 2007, 105, 1757-1768.	0.8	15
156	Density functional theory for the photoionization dynamics of uracil. Journal of Chemical Physics, 2007, 127, 234317.	1.2	15
157	Selective Bond Breaking in \hat{I}^2 -d-Ribose by Gas-Phase Electron Attachment around 8 eV. Journal of the American Chemical Society, 2007, 129, 6269-6277.	6.6	72
158	Vibrationally resolved nitrogen K-shell photoelectron spectra of the dinitrogen oxide molecule: Experiment and theory. Chemical Physics Letters, 2007, 438, 14-19.	1.2	12
159	A three-dimensional morphed potential of $NeHCl$ including the ground state deuterated $\hat{I}\xi$ bending vibration. Chemical Physics Letters, 2007, 444, 9-16.	1.2	2
160	A symmetry analysis of circular dichroism in photoabsorption of fixed-in-space molecules: Chiral and nondipole effects. Journal of Electron Spectroscopy and Related Phenomena, 2007, 155, 104-108.	0.8	6
161	Photoemission in the molecular frame induced by soft X-ray elliptically polarized light. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 30-37.	0.8	8
162	Microwave-Based Structure and Four-Dimensional Morphed Intermolecular Potential for HI_2CO_2 . Journal of Physical Chemistry A, 2007, 111, 11976-11985.	1.1	6

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163	Electron-Attachment Resonances of Glycine Zwitterions from Quantum Scattering Calculations: Modeling Macrosolvation Effects. <i>Journal of Physical Chemistry B</i> , 2006, 110, 26240-26247.	1.2	13
164	A morphed intermolecular bending potential of $\text{OC} \cdots \text{HCl}$. <i>Chemical Physics Letters</i> , 2006, 429, 68-76.	1.2	8
165	Electron scattering by formic acid in the gas phase: comparing measured and computed angular distributions. <i>European Physical Journal D</i> , 2006, 39, 399-405.	0.6	17
166	Evolution of photoelectron vibrational coupling with molecular complexity. <i>Physica Scripta</i> , 2006, 74, C71-C79.	1.2	25
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168	Molecular Frame Photoelectron Emission in the Presence of Autoionizing Resonances. <i>Physical Review Letters</i> , 2006, 96, 073001.	2.9	32
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