Lorenz S Cederbaum

List of Publications by Year
in descending order

315 papers	12,963 citations	20759 60 h-index	37111 96 g-index
324 all docs	324 docs citations	324 times ranked	5189 citing authors

#	Article	IF	Citations
1	BEYOND BORN-OPPENHEIMER: Molecular Dynamics Through a Conical Intersection. Annual Review of Physical Chemistry, 2004, 55, 127-158.	4.8	694
2	Direct calculation of ionization potentials of closed-shell atoms and molecules. Theoretica Chimica Acta, 1973, 31, 239-260.	0.9	312
3	Multiconfigurational time-dependent Hartree method for bosons: Many-body dynamics of bosonic systems. Physical Review A, 2008, 77, .	1.0	280
4	Non-Hermitian electronic theory and applications to clusters. Physics Reports, 2002, 368, 1-117.	10.3	261
5	Multiply Charged Anions in the Gas Phase. Chemical Reviews, 2002, 102, 181-200.	23.0	251
6	What will it take to observe processes in 'real time'?. Nature Photonics, 2014, 8, 162-166.	15.6	220
7	Role of Excited States in the Splitting of a Trapped Interacting Bose-Einstein Condensate by a Time-Dependent Barrier. Physical Review Letters, 2007, 99, 030402.	2.9	175
8	Mechanism of Interatomic Coulombic Decay in Clusters. Physical Review Letters, 2004, 93, 263002.	2.9	166
9	Multielectron wave-packet propagation: General theory and application. Journal of Chemical Physics, 2005, 123, 044111.	1.2	165
10	Exact Quantum Dynamics of a Bosonic Josephson Junction. Physical Review Letters, 2009, 103, 220601.	2.9	163
11	Timeâ€dependent photodissociation of methyl iodide with five active modes. Journal of Chemical Physics, 1994, 101, 5623-5646.	1.2	162
12	Interatomic Coulombic Decay in van der Waals Clusters and Impact of Nuclear Motion. Physical Review Letters, 2000, 85, 4490-4493.	2.9	156
13	Electronic decay of valence holes in clusters and condensed matter. Physical Review B, 2001, 64, .	1.1	148
14	Electronic decay in weakly bound heteroclusters: Energy transfer versus electron transfer. Journal of Chemical Physics, 2001, 115, 5076-5088.	1.2	148
15	Ultrafast correlation-driven electron dynamics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124002.	0.6	145
16	Short-Time Dynamics Through Conical Intersections in Macrosystems. Physical Review Letters, 2005, 94, 113003.	2.9	140
17	Ab initio calculation of interatomic decay rates by a combination of the Fano ansatz, Greenâ€™s-function methods, and the Stieltjes imaging technique. Journal of Chemical Physics, 2005, 123, 204107.	1.2	135
18	Ultralong-range energy transfer by interatomic Coulombic decay in an extreme quantum system. Nature Physics, 2010, 6, 508-511.	6.5	133

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19	Site- and energy-selective slow-electron production through intermolecular Coulombic decay. Nature, 2014, 505, 661-663.	13.7	131
20	Unified view on multiconfigurational time propagation for systems consisting of identical particles. Journal of Chemical Physics, 2007, 127, 154103.	1.2	124
21	Reduced density matrices and coherence of trapped interacting bosons. Physical Review A, 2008, 78, .	1.0	124
22	General variational many-body theory with complete self-consistency for trapped bosonic systems. Physical Review A, 2006, 73, .	1.0	119
23	Molecular double core hole electron spectroscopy for chemical analysis. Journal of Chemical Physics, 2010, 132, .	1.2	111
24	Interatomic and Intermolecular Coulombic Decay. Chemical Reviews, 2020, 120, 11295-11369.	23.0	106
25	Valence one-electron and shake-up ionization bands of polycyclic aromatic hydrocarbons. I. Benzene, naphthalene, anthracene, naphthacene, and pentacene. Journal of Chemical Physics, 2001, 115, 5859-5882.	1.2	103
26	Ultrafast charge migration in 2-phenylethyl-N,N-dimethylamine. Chemical Physics Letters, 2008, 450, 232-235.	1.2	103
27	Coulombic Energy Transfer and Triple Ionization in Clusters. Physical Review Letters, 2003, 90, 153401.	2.9	98
28	Charge migration in different conformers of glycine: The role of nuclear geometry. Chemical Physics, 2007, 338, 320-328.	0.9	98
29	Complex absorbing potentials in the framework of electron propagator theory. I. General formalism. Journal of Chemical Physics, 2002, 117, 5511-5521.	1.2	96
30	Laser-induced conical intersections in molecular optical lattices. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 221001.	0.6	95
31	Complex absorbing potentials in the framework of electron propagator theory. II. Application to temporary anions. Journal of Chemical Physics, 2003, 118, 6188-6199.	1.2	92
32	Dynamic Interference of Photoelectrons Produced by High-Frequency Laser Pulses. Physical Review Letters, 2012, 108, 253001.	2.9	92
33	Numerically exact quantum dynamics of bosons with time-dependent interactions of harmonic type. Physical Review A, 2012, 86, .	1.0	92
34	Electron Correlation as the Driving Force for Charge Transfer:â€‰ Charge Migration Following Ionization in N-Methyl Acetamide. Journal of Physical Chemistry A, 2005, 109, 409-414.	1.1	91
35	Tracing Ultrafast Interatomic Electronic Decay Processes in Real Time and Space. Physical Review Letters, 2007, 98, 083201.	2.9	89
36	THE MULTI-MODE VIBRONIC-COUPLING APPROACH. Advanced Series in Physical Chemistry, 2004, , 323-367.	1.5	86

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37	Pathway from Condensation via Fragmentation to Fermionization of Cold Bosonic Systems. Physical Review Letters, 2005, 95, 140402.	2.9	86
38	Interatomic electronic decay processes in singly and multiply ionized clusters. Journal of Electron Spectroscopy and Related Phenomena, 2011, 183, 36-47.	0.8	86
39	Environmental effects on a conical intersection: A model study. Faraday Discussions, 2004, 127, 395.	1.6	85
40	Interatomic Electronic Decay in Endohedral Fullerenes. Physical Review Letters, 2006, 96, 053401.	2.9	85
41	Ionization and double ionization of small water clusters. Journal of Chemical Physics, 2006, 125, 204305.	1.2	84
42	Bornâ€“Oppenheimer approximation and beyond for time-dependent electronic processes. Journal of Chemical Physics, 2008, 128, 124101.	1.2	82
43	Strong impact of light-induced conical intersections on the spectrum of diatomic molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 045603.	0.6	82
44	Zoo of Quantum Phases and Excitations of Cold Bosonic Atoms in Optical Lattices. Physical Review Letters, 2005, 95, 030405.	2.9	80
45	An efficient combination of computational techniques for investigating electronic resonance states in molecules. Journal of Chemical Physics, 2001, 115, 6853-6861.	1.2	79
46	Short-time dynamics through conical intersections in macrosystems. I. Theory: Effective-mode formulation. Journal of Chemical Physics, 2006, 124, 144103.	1.2	79
47	Potential energy surface of the CO2? anion. Physical Chemistry Chemical Physics, 2004, 6, 42.	1.3	74
48	Light-Induced Conical Intersections: Topological Phase, Wave Packet Dynamics, and Molecular Alignment. Journal of Physical Chemistry A, 2012, 116, 2636-2643.	1.1	74
49	Electronic Structure of the PYP Chromophore in Its Native Protein Environment. Journal of the American Chemical Society, 2007, 129, 6798-6806.	6.6	72
50	Charge migration following ionization in systems with chromophore-donor and amine-acceptor sites. Journal of Chemical Physics, 2008, 129, 104305.	1.2	72
51	Core Ionization Initiates Subfemtosecond Charge Migration in the Valence Shell of Molecules. Physical Review Letters, 2016, 117, 093002.	2.9	72
52	Reactive Scattering Dynamics on Conically Intersecting Potential Energy Surfaces: The H + H2Exchange Reactionâ€. Journal of Physical Chemistry A, 2001, 105, 2321-2329.	1.1	71
53	The exact molecular wavefunction as a product of an electronic and a nuclear wavefunction. Journal of Chemical Physics, 2013, 138, 224110.	1.2	71
54	Existence of a Correlation Bound s-Type Anion State of C₆₀. Journal of Physical Chemistry Letters, 2013, 4, 849-853.	2.1	71

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55	Electronic structure of the photoactive yellow protein chromophore: Ab initio study of the low-lying excited singlet states. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 190, 241-257.	2.0	67
56	Ultrafast Interatomic Electronic Decay in Multiply Excited Clusters. Physical Review Letters, 2010, 105, 043004.	2.9	67
57	Fingerprints of the nodal structure of autoionizing vibrational wave functions in clusters: Interatomic Coulombic decay in Ne dimer. Journal of Chemical Physics, 2001, 114, 7351-7360.	1.2	64
58	Exact ground state of finite Bose-Einstein condensates on a ring. Physical Review A, 2005, 72, .	1.0	64
59	Scattering of an attractive Bose-Einstein condensate from a barrier: Formation of quantum superposition states. Physical Review A, 2009, 80, .	1.0	64
60	Resonant Auger Decay of Molecules in Intense X-Ray Laser Fields: Light-Induced Strong Nonadiabatic Effects. Physical Review Letters, 2011, 106, 123001.	2.9	63
61	Electron Impact Catalytic Dissociation: Twoâ€Bond Breaking by a Lowâ€Energy Catalytic Electron. Angewandte Chemie - International Edition, 2011, 50, 4119-4122.	7.2	62
62	Light-induced conical intersections in polyatomic molecules: General theory, strategies of exploitation, and application. Journal of Chemical Physics, 2013, 139, 154314.	1.2	62
63	Strong interference effects in the resonant Auger decay of atoms induced by intense x-ray fields. Physical Review A, 2011, 83, .	1.0	60
64	Foreign imaging in Auger spectroscopy: The Si 2pspectrum of silicon tetrafluoride. Physical Review Letters, 1993, 71, 649-652.	2.9	59
65	Formation and Dynamics of Many-Boson Fragmented States in One-Dimensional Attractive Ultracold Gases. Physical Review Letters, 2008, 100, 130401.	2.9	59
66	Electron-correlation-driven charge migration in oligopeptides. Chemical Physics, 2013, 414, 100-105.	0.9	59
67	Conical Intersections Induced by Quantum Light: Field-Dressed Spectra from the Weak to the Ultrastrong Coupling Regimes. Journal of Physical Chemistry Letters, 2018, 9, 6215-6223.	2.1	59
68	Ab initio lifetimes in the interatomic Coulombic decay of neon clusters computed with propagators. Journal of Chemical Physics, 2007, 126, 164110.	1.2	58
69	Conical intersections induced by light: Berry phase and wavepacket dynamics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 175102.	0.6	57
70	How an interacting many-body system tunnels through a potential barrier to open space. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13521-13525.	3.3	55
71	Intermolecular Coulombic Decay in Small Biochemically Relevant Hydrogen-Bonded Systems. Journal of the American Chemical Society, 2011, 133, 6817-6824.	6.6	53
72	Ground-state fragmentation of repulsive Bose-Einstein condensates in double-trap potentials. Physical Review A, 2004, 70, .	1.0	52

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73	Impact of Sulfur vs Oxygen on the Low-Lying Excited States oftrans-p-Coumaric Acid andtrans-p-Coumaric Thio Acid. Journal of Physical Chemistry A, 2005, 109, 4623-4631.	1.1	52
74	Quantum dynamics of attractive versus repulsive bosonic Josephson junctions: Bose-Hubbard and full-Hamiltonian results. Physical Review A, 2010, 82, .	1.0	52
75	Observation of electron-transfer-mediated decay in aqueous solution. Nature Chemistry, 2017, 9, 708-714.	6.6	51
76	Methylboron Oxide, H3C?B?O. Angewandte Chemie International Edition in English, 1989, 28, 88-90.	4.4	50
77	Intersections of potential energy surfaces of short-lived states: The complex analogue of conical intersections. Journal of Chemical Physics, 2004, 120, 3201-3214.	1.2	50
78	Multiconfigurational time-dependent Hartree method for mixtures consisting of two types of identical particles. Physical Review A, 2007, 76, .	1.0	50
79	Ultrafast Charge Migration Following Valence Ionization of 4-Methylphenol: Jumping over the Aromatic Ring^{â€}. Journal of Physical Chemistry A, 2010, 114, 8676-8679.	1.1	49
80	A Oneâ€Step Fourâ€Bondâ€Breaking Reaction Catalyzed by an Electron. Angewandte Chemie - International Edition, 2012, 51, 8003-8007.	7.2	48
81	Interatomic decay of inner-valence-excited states in clusters. Journal of Chemical Physics, 2006, 124, 144315.	1.2	47
82	General mapping for bosonic and fermionic operators in Fock space. Physical Review A, 2010, 81, .	1.0	47
83	Wave chaos as signature for depletion of a Bose-Einstein condensate. Physical Review A, 2012, 86, .	1.0	46
84	Impact of interatomic electronic decay processes on Xeâ€Š4d hole decay in the xenon fluorides. Journal of Chemical Physics, 2003, 119, 10575-10584.	1.2	45
85	Accurate multi-boson long-time dynamics in triple-well periodic traps. Physical Review A, 2011, 83, .	1.0	45
86	Electronic decay following ionization of aqueous Li+ microsolvation clusters. Journal of Chemical Physics, 2005, 122, 094305.	1.2	44
87	Universality of fragmentation in the SchrÃ¶dinger dynamics of bosonic Josephson junctions. Physical Review A, 2014, 89, .	1.0	44
88	Evidence for a partial breakdown of the molecular orbital picture in the ionization spectra of large saturated hydrocarbons. Journal of Chemical Physics, 1996, 105, 7583-7596.	1.2	43
89	Coherent intense resonant laser pulses lead to interference in the time domain seen in the spectrum of the emitted particles. Physical Review A, 2012, 86, .	1.0	43
90	Nuclear-wave-packet quantum interference in the intense laser dissociation of the D<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mo>+</mml:mo></mml:msup></mml:math>molecule. Physical Review A, 2013, 88, .	1.0	43

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91	Resonant Auger decay of the core-excited C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mo>*</mml:mo></mml:msup></mml:math>O molecule in intense x-ray laser fields. Physical Review A, 2011, 84, .	1.0	42
92	Competition between Light-Induced and Intrinsic Nonadiabatic Phenomena in Diatomics. Journal of Physical Chemistry Letters, 2017, 8, 1624-1630.	2.1	42
93	Calculation of interatomic decay widths of vacancy states delocalized due to inversion symmetry. Journal of Chemical Physics, 2006, 125, 094107.	1.2	41
94	On the interatomic electronic processes following Auger decay in neon dimer. Journal of Chemical Physics, 2008, 129, 074307.	1.2	41
95	On the sizeâ€dependence of the static selfâ€energy in propagator calculations. Journal of Chemical Physics, 1995, 103, 3578-3588.	1.2	40
96	Short-time dynamics through conical intersections in macrosystems. II. Applications. Journal of Chemical Physics, 2006, 124, 144104.	1.2	40
97	Photoinduced Isomerization of the Photoactive Yellow Protein (PYP) Chromophore: Interplay of Two Torsions, a HOOP Mode and Hydrogen Bonding. Journal of Physical Chemistry A, 2011, 115, 9237-9248.	1.1	40
98	Dynamics of interatomic Coulombic decay in quantum dots. Journal of Chemical Physics, 2011, 135, 144112.	1.2	40
99	Proton-Transfer Mediated Enhancement of Nonlocal Electronic Relaxation Processes in X-ray Irradiated Liquid Water. Journal of the American Chemical Society, 2014, 136, 18170-18176.	6.6	40
100	Correlation effects in the valence x-ray photoionization spectra of ethylene, butadiene, and hexatriene. International Journal of Quantum Chemistry, 1997, 63, 465-481.	1.0	39
101	Ab initio calculation of interatomic decay rates of excited doubly ionized states in clusters. Journal of Chemical Physics, 2008, 129, 244102.	1.2	39
102	Swift Loss of Coherence of Soliton Trains in Attractive Bose-Einstein Condensates. Physical Review Letters, 2011, 106, 240401.	2.9	39
103	Benchmark Calculations of the Energies for Binding Excess Electrons to Water Clusters. Journal of Chemical Theory and Computation, 2012, 8, 893-900.	2.3	39
104	Two trapped particles interacting by a finite-range two-body potential in two spatial dimensions. Physical Review A, 2013, 87, .	1.0	39
105	Interatomic Coulombic decay in a heteroatomic rare gas cluster. Journal of Chemical Physics, 2006, 124, 154305.	1.2	38
106	Many-body tunneling dynamics of Bose-Einstein condensates and vortex states in two spatial dimensions. Physical Review A, 2015, 92, .	1.0	38
107	Demixing of Bosonic Mixtures in Optical Lattices from Macroscopic to Microscopic Scales. Physical Review Letters, 2006, 97, 230403.	2.9	37
108	Many-body theory for systems with particle conversion: Extending the multiconfigurational time-dependent Hartree method. Physical Review A, 2009, 79, .	1.0	37

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109	Environment assisted electron capture. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 231001.	0.6	37
110	ac Stark effect in the electronic continuum and its impact on the photoionization of atoms by coherent intense short high-frequency laser pulses. Physical Review A, 2013, 88, .	1.0	37
111	Exact decay and tunnelling dynamics of interacting few-boson systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 044018.	0.6	36
112	Generation of Highly Damaging H₂O⁺ Radicals by Inner Valence Shell Ionization of Water. ChemPhysChem, 2010, 11, 1006-1009.	1.0	36
113	Tracing molecular electronic excitation dynamics in real time and space. Journal of Chemical Physics, 2010, 132, 144302.	1.2	36
114	Extreme Correlation Effects in the Elusive Bound Spectrum of C₆₀^{â€“}. Journal of Physical Chemistry Letters, 2013, 4, 3319-3324.	2.1	36
115	Phantom vortices: hidden angular momentum in ultracold dilute Bose-Einstein condensates. Scientific Reports, 2017, 7, 40122.	1.6	36
116	Light-induced conical intersections for short and long laser pulses: Floquet and rotating wave approximations versus numerical exact results. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 135101.	0.6	35
117	Formation of satellite bands in the ionization spectra of extended systems. Physical Review B, 1996, 53, 13326-13339.	1.1	34
118	Time-dependent multi-orbital mean-field for fragmented Boseâ€“Einstein condensates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 362, 453-459.	0.9	34
119	Correlation-bound anions of NaCl clusters. Journal of Chemical Physics, 2010, 133, 114301.	1.2	33
120	Simulation of a complex spectrum: Interplay of five electronic states and 21 vibrational degrees of freedom in C5H4+. Journal of Chemical Physics, 2005, 123, 204310.	1.2	32
121	Coupled-cluster theory for systems of bosons in external traps. Physical Review A, 2006, 73, .	1.0	32
122	Interferences in the Density of Two Bose-Einstein Condensates Consisting of Identical or Different Atoms. Physical Review Letters, 2007, 98, 110405.	2.9	32
123	Ultrafast electron dynamics following outer-valence ionization: The impact of low-lying relaxation satellite states. Journal of Chemical Physics, 2009, 130, 154305.	1.2	32
124	Interatomic Electronic Decay Driven by Nuclear Motion. Physical Review Letters, 2010, 105, 173401.	2.9	32
125	Ionic-Charge Dependence of the Intermolecular Coulombic Decay Time Scale for Aqueous Ions Probed by the Core-Hole Clock. Journal of the American Chemical Society, 2011, 133, 13430-13436.	6.6	32
126	Excitation spectra of many-body systems by linear response: General theory and applications to trapped condensates. Physical Review A, 2013, 88, .	1.0	32

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127	Controlled energy-selected electron capture and release in double quantum dots. Physical Review B, 2013, 88, .	1.1	32
128	Influence of Light-Induced Conical Intersection on the Photodissociation Dynamics of D₂⁺ Starting from Individual Vibrational Levels. Journal of Physical Chemistry A, 2014, 118, 11908-11915.	1.1	32
129	Generic regimes of quantum many-body dynamics of trapped bosonic systems with strong repulsive interactions. Physical Review A, 2014, 89, .	1.0	32
130	Auger Electron Spectroscopy as a Probe of the Solution of Aqueous Ions. Journal of the American Chemical Society, 2009, 131, 7264-7271.	6.6	31
131	On the Cholesky decomposition for electron propagator methods: General aspects and application on C60. Journal of Chemical Physics, 2010, 132, 044110.	1.2	31
132	Breaking the resilience of a two-dimensional Bose-Einstein condensate to fragmentation. Physical Review A, 2014, 90, .	1.0	31
133	On the doubly ionized states of Ar2 and their intra- and interatomic decay to Ar23+. Journal of Chemical Physics, 2008, 128, 014307.	1.2	30
134	Effect of Light-Induced Conical Intersection on the Photodissociation Dynamics of the D₂⁺ Molecule. Journal of Physical Chemistry A, 2013, 117, 8528-8535.	1.1	30
135	All for one and one for all: accommodating an extra electron in C60. Physical Chemistry Chemical Physics, 2014, 16, 13287.	1.3	30
136	An effective Hamiltonian for the short-time dynamics at a conical intersection. Molecular Physics, 2006, 104, 1081-1093.	0.8	29
137	High activity of helium droplets following ionization of systems inside those droplets. Physical Review B, 2007, 76, .	1.1	29
138	Dynamic interference in the photoionization of He by coherent intense high-frequency laser pulses: Direct propagation of the two-electron wave packets on large spatial grids. Physical Review A, 2016, 93, .	1.0	29
139	Exploring Interatomic Coulombic Decay by Free Electron Lasers. Physical Review Letters, 2011, 107, 273002.	2.9	28
140	Towards controlling the dissociation probability by light-induced conical intersections. Faraday Discussions, 2016, 194, 479-493.	1.6	28
141	Direct Signatures of Light-Induced Conical Intersections on the Field-Dressed Spectrum of Na₂. Journal of Physical Chemistry Letters, 2018, 9, 2739-2745.	2.1	28
142	Extrapolating bound state data of anions into the metastable domain. Journal of Chemical Physics, 2004, 121, 6628-6633.	1.2	27
143	Using pHâ€...Value To Control Intermolecular Electronic Decay. Angewandte Chemie - International Edition, 2011, 50, 1306-1309.	7.2	27
144	Anions of Xenon Clusters Bound by Long-Range Electron Correlations. Physical Review Letters, 2011, 107, 133401.	2.9	27

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145	Bornâ€“Oppenheimer approximation in optical cavities: from success to breakdown. Chemical Science, 2021, 12, 1251-1258.	3.7	27
146	Stable Free Dianionic Silicoï£¿Carbon Clusters. Angewandte Chemie International Edition in English, 1997, 36, 1889-1891.	4.4	26
147	Nonlocal Effects in the Core Ionization and Auger Spectra of Small Ammonia Clusters. Journal of Physical Chemistry B, 2011, 115, 5441-5447.	1.2	26
148	Damaging Intermolecular Energy and Proton Transfer Processes in Alphaâ€Particleâ€Irradiated Hydrogenâ€Bonded Systems. Angewandte Chemie - International Edition, 2018, 57, 17023-17027.	7.2	26
149	Bound states of negatively charged ions induced by a magnetic field. Physical Review A, 2000, 61, .	1.0	25
150	Ultrafast Photoinitiated Long-Range Electron Transfer in Cyclophane-Bridged Zincporphyrinâ€'Quinone Complexes via Conical Intersections. Journal of Physical Chemistry B, 2004, 108, 19049-19055.	1.2	24
151	Impact of nuclear dynamics on interatomic Coulombic decay in a He dimer. Physical Review A, 2010, 82, .	1.0	24
152	The effect of light-induced conical intersections on the alignment of diatomic molecules. Chemical Physics, 2012, 399, 146-150.	0.9	24
153	Nuclear dynamics during the resonant Auger decay of water molecules. Journal of Chemical Physics, 2009, 130, 154307.	1.2	23
154	Ultrafast charge separation driven by differential particle and hole mobilities. Journal of Chemical Physics, 2011, 134, 024303.	1.2	23
155	Recursive formulation of the multiconfigurational time-dependent Hartree method for fermions, bosons and mixtures thereof in terms of one-body density operators. Chemical Physics, 2012, 401, 2-14.	0.9	23
156	Charge transfer driven by electron correlation: A non-Dyson propagator approach. Journal of Chemical Physics, 2005, 122, 134104.	1.2	22
157	Allene and pentatetraene cations as models for intramolecular charge transfer: Vibronic coupling Hamiltonian and conical intersections. Journal of Chemical Physics, 2005, 122, 144320.	1.2	22
158	Quantum dynamics in macrosystems with several coupled electronic states: Hierarchy of effective Hamiltonians. Journal of Chemical Physics, 2007, 127, 124107.	1.2	22
159	Overlap of exact and Gross-Pitaevskii wave functions in Bose-Einstein condensates of dilute gases. Physical Review A, 2016, 94, .	1.0	22
160	Suppression of electron correlation and of autoionization by strong laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, L279-L284.	0.6	21
161	Efficient generation and properties of mesoscopic quantum superposition states in an attractive Boseâ€“Einstein condensate threaded by a potential barrier. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 091004.	0.6	21
162	Optimal time-dependent lattice models for nonequilibrium dynamics. New Journal of Physics, 2011, 13, 043003.	1.2	21

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163	Photoionization of hydrogen atoms by coherent intense high-frequency short laser pulses: Direct propagation of electron wave packets on large spatial grids. Physical Review A, 2013, 88, .	1.0	21
164	Controlling the velocities and the number of emitted particles in the tunneling to open space dynamics. Physical Review A, 2014, 89, .	1.0	21
165	Discovery of a new class of stable gas-phase dianions: Mixed oxygenâ€“carbon cluster OCn2â^' (n=5â€“19). Journal of Chemical Physics, 2002, 117, 7002-7009.	1.2	20
166	Influence of Delocalization on the Stability of Dianions:Â Study of a Systematic Series of Dianions with Growing Electronic Localization. Journal of the American Chemical Society, 2003, 125, 9531-9537.	6.6	20
167	Impact of intense laser pulses on the autoionization dynamics of the 2s2p doubly excited state of He. Physical Review A, 2017, 96, .	1.0	20
168	Dianionic Tetraborates Do Exist as Stable Entities. Journal of the American Chemical Society, 2002, 124, 10903-10910.	6.6	19
169	Microsolvation of Li+in Water Analyzed by Ionization and Double Ionization. Journal of Physical Chemistry A, 2004, 108, 5831-5844.	1.1	19
170	Fragmented Metastable States Exist in an Attractive Bose-Einstein Condensate for Atom Numbers Well above the Critical Number of the Gross-Pitaevskii Theory. Physical Review Letters, 2008, 100, 040402.	2.9	19
171	Interatomic Coulombic decay in a He dimer:Ab initiopotential-energy curves and decay widths. Physical Review A, 2010, 82, .	1.0	19
172	An Excited Electron Avoiding a Positive Charge. Journal of Physical Chemistry Letters, 2011, 2, 2300-2303.	2.1	19
173	Native hydrogen bonding network of the photoactive yellow protein (PYP) chromophore: Impact on the electronic structure and photoinduced isomerization. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 234, 123-134.	2.0	19
174	Detecting ultrafast interatomic electronic processes in media by fluorescence. New Journal of Physics, 2014, 16, 102002.	1.2	19
175	The exact wavefunction of interacting N degrees of freedom as a product of N single-degree-of-freedom wavefunctions. Chemical Physics, 2015, 457, 129-132.	0.9	19
176	Damaging Intermolecular Energy and Proton Transfer Processes in Alphaâ€Particleâ€Irradiated Hydrogenâ€Bonded Systems. Angewandte Chemie, 2018, 130, 17269-17273.	1.6	19
177	Real-time observation of X-ray-induced intramolecular and interatomic electronic decay in CH2I2. Nature Communications, 2019, 10, 2186.	5.8	19
178	On the intermolecular Coulombic decay of singly and doubly ionized states of water dimer. Journal of Chemical Physics, 2010, 133, 154307.	1.2	18
179	Time-resolved pump-probe spectroscopy to follow valence electronic motion in molecules: Theory. Physical Review A, 2013, 88, .	1.0	18
180	The exact wavefunction factorization of a vibronic coupling system. Journal of Chemical Physics, 2014, 140, 054104.	1.2	18

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181	Intrinsic and light-induced nonadiabatic phenomena in the NaI molecule. Physical Chemistry Chemical Physics, 2017, 19, 19656-19664.	1.3	18
182	Impact of cavity on interatomic Coulombic decay. Nature Communications, 2021, 12, 4083.	5.8	18
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