Kaoru Yamanouchi

List of Publications by Year
in descending order

255	5,831	61945	106281
papers	citations	43 h-index	65 g-index

260	260	260	2143
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single and sequential double ionization of NO radical in intense laser fields. Journal of Chemical Physics, 2022, 156, 094307.	1.2	3
2	Ionization and electron excitation of C ₆₀ in a carbon nanotube: A variable temperature/voltage transmission electron microscopic study. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2200290119.	3.3	10
3	Observation of terahertz-wave assisted electron scattering by Ar. Chemical Physics Letters, 2022, 795, 139512.	1.2	0
4	Quantum computing of HÃ¼ckel molecular orbitals of Ï€-electron systems. Journal of Chemical Physics, 2022, 156, 184117.	1.2	4
5	Attosecond Optical and Ramsey-Type Interferometry by Postgeneration Splitting of Harmonic Pulse. Ultrafast Science, 2022, 2022, .	5.8	4
6	Determination of geometrical structure of CCl3+ by trapped-ion electron diffraction. Chemical Physics Letters, 2022, 802, 139753.	1.2	0
7	Evaluation of vibrational energies and wave functions of CO2 on a quantum computer. AVS Quantum Science, 2022, 4, .	1.8	4
8	Theoretical Model for Simulation ofÂRotational Excitation in Air-Lasing. Springer Series in Chemical Physics, 2021, , 29-44.	0.2	0
9	Ultrafast Femtosecond Dynamics and High-Resolution Spectroscopy of Molecular Cations. , 2021, , 283-300.		1
10	Observation of the Post-Ionization Optical Coupling in N2+ Lasing in Intense Laser Fields. Topics in Applied Physics, 2021, , 21-40.	0.4	0
11	Photodissociation of [Arâ€“N2]+ induced by near-IR femtosecond laser fields by ion-trap time-of-flight mass spectrometry. Journal of Chemical Physics, 2021, 154, 174303.	1.2	0
12	Calculation of vibrational eigenenergies on a quantum computer: Application to the Fermi resonance in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml Physical Review A, 2021, 103, .	1.0	9
13	Extremely enhanced N₂⁺ lasing in a filamentary plasma grating in ambient air. Optics Letters, 2021, 46, 3404.	1.7	6
14	Rotational population transfer through the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:msup><mml:mspace width="0.16em" /><mml:mn>2</mml:mn></mml:msup><mml:msub><mml:mi mathvariant="normal">Î</mml:mi><mml:mi>u</mml:mi></mml:msub></mml:mrow><mml:mo>â^’</mml:mo><mml:mrow><mml:mi>X< width="0.16em" /><mml:mn>2</mml:mn></mml:msup><mml:msub><mml:mi mathvariant="normal">Î£</mml:mi><mml:mi>g</mml:mi></mml:msub><mml:msup><mml:mrow /><mml:mo	1.0	4
15	300â€‰â€‰attosecond response of acetylene in two-photon ionization/dissociation processes. Optica, 2021, 8, 1075.	4.8	5
16	Population inversion in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow><mml:mo>+</mml:mo></mml:msup></mml:mat by vibrationally mediated Rabi oscillation at 400 nm. Physical Review A, 2021, 104, .	1.0	4
17	Spin-orbit splitting of Ar+ , Kr+ , and Kr2+ determined by strong-field ultrahigh-resolution Fourier-transform spectroscopy. Physical Review A, 2021, 104, .	1.0	2
18	Observation of laser-assisted electron-impact ionization in ultrashort intense laser fields. Physical Review A, 2021, 104, .	1.0	1

#	Article	IF	Citations
19	Ionization and dissociation dynamics of H2O in ultrashort intense near-IR laser fields by the time-dependent adiabatic state method and the time-dependent configuration interaction method. Chemical Physics Letters, 2020, 742, 137165.	1.2	10
20	Static-field ionization model of He-like ions for diagnostics of light-field intensity. Physical Review A, 2020, 102, .	1.0	2
21	Giant Enhancement of Air Lasing by Complete Population Inversion in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msubsup><mml:mrow><mml:mi mathvariant="normal">N</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow><mml:mrow><mml:mo>+</mml:mo> Physical Review Letters, 2020, 125, 053201.	2.9	31
22	Switching Competition between Electron and Energy Transfers in Porphyrinâ€“Fullerene Dyads. Journal of Physical Chemistry B, 2020, 124, 10899-10912.	1.2	11
23	Time delay in the coherent vibrational motion of H2+ created by ionization of H2. Physical Review A, 2020, 102, .	1.0	3
24	Excited-state populations in the multiconfiguration time-dependent Hartreeâ€“Fock method. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 105601.	0.6	5
25	Rotationally induced population inversion between the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>B</mml:mi><mml:msup><mml:mspace width="0.16em" /><mml:mn>2</mml:mn></mml:msup><mml:msubsup><mml:mi mathvariant="normal">Î£</mml:mi><mml:mi>u</mml:mi><mml:mo>+</mml:mo></mml:msubsup></mml:mrow></mml:math> and <mml:math	1.0	8
26	Ultrafast electronâ€“nuclear wavepacket in ${mathbf{O}}_{2}^{mathbf{+}}$ generated and probed with attosecond pulse trains. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 164001.	0.6	3
27	Absolute carrier-envelope-phase dependences of single and double ionization of methanol in a near-IR few-cycle laser field. Journal of Chemical Physics, 2020, 152, 194304.	1.2	2
28	Generalized Phase Sensitivity of Directional Bond Breaking in the Laser-Molecule Interaction. Physical Review Letters, 2020, 125, 023202.	2.9	11
29	Optimization of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow><mml:mo>+</mml:mo></mml:msup></mml:m lasing through population depletion in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mi>X</mml:mi><mml:mn>2</mml:mn></mml:m mathvariant="normal">Î£</mml:mi><mml:mi>g</mml:mi></mml:msub></mml:mrow><mml:mo>+</. Physical	1.3	15
30	Single-shot achromatic imaging for broadband soft x-ray pulses. Optics Letters, 2020, 45, 515.	1.7	8
31	Surface processing of PMMA and metal nano-particle resist by sub-micrometer focusing of coherent extreme ultraviolet high-order harmonics pulses. Optics Letters, 2020, 45, 2926.	1.7	11
32	Observation of Laser-Assisted (e,2e) in Ultrashort Intense Laser Fields. , 2020, , .		0
33	Mechanism of Population Inversion in N$$_2{^{+}}$$. Topics in Applied Physics, 2020, , 21-41.	0.4	0
34	Population inversion between B2Î£u+ and X2Î£g+ states of N2+ assisted by rotational excitation. , 2020, , .		0
35	Determination of spin-orbit splitting of Kr+ and Kr2+ by ultrafast motion of the valence electrons. , 2020, , .		0
36	Entanglement and coherence in photoionization of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> by an ultrashort XUV laser pulse. Physical Review A, 2019, 100, .	1.0	16

#	Article	IF	Citations
37	Lasing at 391Ânm: Evidence of Coherent <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msubsup><mml:mrow><mml:mi mathvariant="normal">N</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow><mml:mrow><mml:mo>	2.9	44
38	Femtosecond Laser-Assisted Electron Scattering for Ultrafast Dynamics of Atoms and Molecules. Atoms, 2019, 7, 85.	0.7	10
39	Fourier transform vibrational spectroscopy of D2+ by few-cycle near-infrared laser pulses. EPJ Web of Conferences, 2019, 205, 03010.	0.1	0
40	Asymmetry flip in photoelectron angular distribution of rare gas atoms in intense circularly-polarized few-cycle laser fields. EPJ Web of Conferences, 2019, 205, 06011.	0.1	0
41	Methods for the Simulation of Coupled Electronic and Nuclear Motion in Molecules Beyond the Born-Oppenheimer Approximation. Springer Series in Chemical Physics, 2019, , 197-220.	0.2	0
42	Broadband nano-focusing of high-order harmonics in soft X-ray region with ellipsoidal mirror. Applied Physics Letters, 2019, 114, .	1.5	26
43	Strong-field Fourier transform vibrational spectroscopy of methanol cation and its isotopologues using few-cycle near-infrared laser pulses. Molecular Physics, 2019, 117, 1732-1740.	0.8	8
44	Asymmetry flip in angle-resolved photoelectron spectra of rare gas atoms by intense circularly polarized few-cycle pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 015601.	0.6	0
45	Lasing by Polarization-Modulated Ultrashort Laser Pulses. Physical Review Letters, 2019, 122, 013202.	2.9	59
46	Time-dependent multiconfiguration method applied to laser-driven <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msubsup><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:msubsup></mml:math>. Physical Review A, 2019, 99, .	1.0	7
47	Mechanism of population inversion in laser-driven N2 +. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 055401.	0.6	16
48	Time-dependent geminal method applied to laser-driven beryllium. Physical Review A, 2018, 97, .	1.0	4
49	LIMAO: Cross-platform software for simulating laser-induced alignment and orientation dynamics of linear-, symmetric- and asymmetric tops. Computer Physics Communications, 2018, 228, 219-228.	3.0	13
50	Rovibrational Resonances in H₂He⁺. Journal of Chemical Theory and Computation, 2018, 14, 1523-1533.	2.3	14
51	Triaryl-substituted pyrrolo-p-phenylene-linked porphyrin-fullerene dyads: Expanding the structural diversity of photoactive materials. Tetrahedron, 2018, 74, 3007-3019.	1.0	8
52	Strong-Field Fourier Transform Vibrational Spectroscopy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msubsup><mml:mrow><mml:mi mathvariant="normal">D</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow><mml:mrow><mml:mo>+</mml:mo> Using Few-Cycle Near-Infrared Laser Pulses. Physical Review Letters, 2018, 120, 263002.	2.9	21
53	Coherent vibrations in methanol cation probed by periodic H3+ ejection after double ionization. Communications Chemistry, 2018, 1, .	2.0	38
54	Effective-potential theory for time-dependent many-electron wave functions. Physical Review A, 2018, 98, .	1.0	4

#	Article	IF	Citations
55	High-order multiphoton laser-assisted elastic electron scattering by Xe in a femtosecond near-infrared intense laser field: Plateau in energy spectra of scattered electrons. Physical Review A, 2017, 95, .	1.0	7
56	Full-dimensional simulation of the laser-induced alignment dynamics of H₂He⁺. Molecular Physics, 2017, 115, 1916-1926.	0.8	11
57	Numerical simulation of THz-wave-assisted electron diffraction for ultrafast molecular imaging. Physical Review A, 2017, 95, .	1.0	9
58	Determination of the absolute carrier-envelope phase by angle-resolved photoelectron spectra of Ar by intense circularly polarized few-cycle pulses. Physical Review A, 2017, 95, .	1.0	17
59	Population inversion in a strongly driven two-level system at far-off resonance. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 185603.	0.6	20
60	Alignment-dependent population inversion in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msup><mml:mrow /><mml:mo>+</mml:mo></mml:msup></mml:mrow></mml:math> in intense few-cycle laser fields. Physical Review A, 2017, 96, .	1.0	40
61	Enhanced ionization of acetylene in intense laser pulses is due to energy upshift and field coupling of multiple orbitals. , 2017, , .		0
62	Laser-Assisted Electron Scattering and Diffraction for Ultrafast Imaging of Atoms and Molecules. Springer Series in Chemical Physics, 2017, , 47-52.	0.2	2
63	Direct Microscopic Analysis of Individual C₆₀ Dimerization Events: Kinetics and Mechanisms. Journal of the American Chemical Society, 2017, 139, 18281-18287.	6.6	34
64	Decomposition of the configuration-interaction coefficients in the multiconfiguration time-dependent Hartree-Fock method. Journal of Chemical Physics, 2016, 144, 154111.	1.2	8
65	Decomposition of cyclohexane ion induced by intense femtosecond laser fields by ion-trap time-of-flight mass spectrometry. Journal of Chemical Physics, 2016, 144, 024313.	1.2	4
66	Angular dependence of ionization probability of C2H2 in a linearly polarized intense laser field. Chemical Physics Letters, 2016, 662, 235-239.	1.2	10
67	Non-adiabatic electron-proton couplings in H2 by floating Gaussian method. Chemical Physics Letters, 2016, 658, 347-353.	1.2	0
68	Fragmentation of long-lived hydrocarbons after strong field ionization. Physical Review A, 2016, 93, .	1.0	21
69	State-selective preparation of Ar2+ and Kr2+ by resonantly enhanced two-photon double ionization via intermediate Rydberg states using high-order harmonics. Physical Review A, 2016, 94, .	1.0	0
70	Sub-10-fs control of dissociation pathways in the hydrogen molecular ion with a few-pulse attosecond pulse train. Nature Communications, 2016, 7, 12835.	5.8	45
71	Simultaneous identification of multi-combustion-intermediates of alkanol-air flames by femtosecond filament excitation for combustion sensing. Scientific Reports, 2016, 6, 27340.	1.6	19
72	Development of high-order harmonic focusing system based on ellipsoidal mirror. Review of Scientific Instruments, 2016, 87, 051803.	0.6	15

#	Article	IF	Citations
73	Determination of absolute CEP of circularly-polarized few-cycle laser pulses from energy-resolved angular distribution of tunnel-ionized photoelectrons. , 2016, , .		0
74	Laser-Assisted Elastic Electron Scattering by Light-Dressed Xe Atoms in a Femtosecond Intense Laser Field. , 2016, , .		0
75	Laser-assisted electron scattering and diffraction in femtosecond intense laser fields. , 2015, , .		0
76	Light-Dressing Effect in Laser-Assisted Elastic Electron Scattering by Xe. Physical Review Letters, 2015, 115, 123201.	2.9	39
77	Frequency-resolved optical gating technique for retrieving the amplitude of a vibrational wavepacket. Scientific Reports, 2015, 5, 11366.	1.6	11
78	Molecular wave function and effective adiabatic potentials calculated by extended multi-configuration time-dependent Hartree-Fock method. AIP Conference Proceedings, 2015, , .	0.3	3
79	Duration of an intense laser pulse can determine the breakage of multiple chemical bonds. Scientific Reports, 2015, 5, 12877.	1.6	26
80	Direct observation of an attosecond electron wave packet in a nitrogen molecule. Science Advances, 2015, 1, e1500356.	4.7	73
81	Wave packet bifurcation in ultrafast hydrogen migration in CH3OH+ by pump-probe coincidence momentum imaging with few-cycle laser pulses. Chemical Physics Letters, 2015, 624, 78-82.	1.2	20
82	Sub-10-fs population inversion in N2+ in air lasing through multiple state coupling. Nature Communications, 2015, 6, 8347.	5.8	146
83	Settling time of a vibrational wavepacket in ionization. Nature Communications, 2015, 6, 8197.	5.8	28
84	Classical Trajectory Methods for Simulation of Laser-Atom and Laser-Molecule Interaction. Springer Series in Chemical Physics, 2015, , 21-44.	0.2	2
85	Time- and Frequency-Resolved Study on a Vibrational Wavepacket of H2 +/D2 + Using Intense Attosecond Pulse Trains. The Review of Laser Engineering, 2015, 43, 823.	0.0	0
86	Femtosecond Laser-Assisted Electron Scattering. The Review of Laser Engineering, 2015, 43, 159.	0.0	0
87	Lasing action induced by femtosecond laser filamentation in ethanol flame for combustion diagnosis. Applied Physics Letters, 2014, 104, 091106.	1.5	34
88	Role of proton dynamics in efficient photoionization of hydrocarbon molecules. Physical Review A, 2014, 89, .	1.0	24
89	Laser-assisted electron diffraction for femtosecond molecular imaging. Journal of Chemical Physics, 2014, 140, 064201.	1.2	38
90	Carrier-envelope-phase dependence of asymmetric C D bond breaking in C2D2 in an intense few-cycle laser field. Chemical Physics Letters, 2014, 595-596, 61-66.	1.2	35

#	Article	IF	Citations
91	Non-Bornâ€“Oppenheimer molecular wave functions of H2 by extended multi-configuration time-dependent Hartreeâ€“Fock method. Chemical Physics Letters, 2014, 595-596, 180-184.	1.2	18
92	Electronic Predetermination of Ethylene Fragmentation Dynamics. Physical Review X, 2014, 4, .	2.8	41
93	Selective Control over Fragmentation Reactions in Polyatomic Molecules Using Impulsive Laser Alignment. Physical Review Letters, 2014, 112, 163003.	2.9	66
94	Nonlinear Fourier transformation spectroscopy of small molecules with intense attosecond pulse train. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124007.	0.6	16
95	Laser-Assisted Electron Scattering and Diffraction in Ultrashort Intense Laser Fields. Springer Series in Chemical Physics, 2014, , 1-16.	0.2	2
96	Observation of Mutiphoton Absorptions in Laser-Assisted Electron Scattering in a Femtosecond Intense Laser Field. , 2014, , .		0
97	Long-Lived Neutral H2 in Hydrogen Migration within Hydrocarbon Dication. , 2014, , .		0
98	Laser-assisted Electron Diffraction for Probing Femtosecond Nuclear Dynamics of Gas-phase Molecules. , 2014, , .		0
99	Rotational Coherence Encoded in an â€œAir-Laserâ€•Spectrum of Nitrogen Molecular Ions in an Intense Laser Field. Physical Review X, 2013, 3, .	2.8	75
100	Vibrational wave-packet evolution of hydrogen molecular ions studied by the pumpprobe spectroscopy using harmonic pulses. , 2013, , .		0
101	Amplified spontaneous C3Îuâ€“B3Îg emission and rotational and vibrational state distributions in C3Îu state of N2 in femtosecond laser induced filament in air. Chemical Physics Letters, 2013, 581, 21-25.	1.2	7
102	Intramolecular electron dynamics in the ionization of acetylene by an intense laser pulse. Journal of Chemical Physics, 2013, 138, 104304.	1.2	26
103	Communication: Long-lived neutral H2 in hydrogen migration within methanol dication. Journal of Chemical Physics, 2013, 139, 181103.	1.2	31
104	Breakdown of Bornâ€Oppenheimer Approximation as a Physical Mechanism for Ultrafast Hydrogen Migrations in Strong Laser Driven Molecules. Journal of the Chinese Chemical Society, 2013, 60, 1207-1211.	0.8	1
105	Control of fragmentation reactions in impulsively aligned polyatomic molecules by selective removal of inner-valence electrons. , 2013, , .		0
106	Time-resolved measurement of vibrational wave-packet dynamics of H<inf>2</inf>⁺ using multicolor probe pulses. , 2013, , .		0
107	Compact XFEL and AMO sciences: SACLA and SCSS. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 164001.	0.6	88
108	Path-selective investigation of intense laser-pulse-induced fragmentation dynamics in triply charged 1,3-butadiene. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 085603.	0.6	25

#	Article	IF	Citations
109	Hydrogen scrambling in ethane induced by intense laser fields: Statistical analysis of coincidence events. Journal of Chemical Physics, 2012, 136, 204309.	1.2	26
110	Protonic structure of CH3OH described by electroprotonic wave functions. Physical Review A, 2012, 85, .	1.0	15
111	Ultrafast hydrogen scrambling in methylacetylene and methyl-d3-acetylene ions induced by intense laser fields. Physical Chemistry Chemical Physics, 2012, 14, 10640.	1.3	19
112	Effect of Laser Parameters on Ultrafast Hydrogen Migration in Methanol Studied by Coincidence Momentum Imaging. Journal of Physical Chemistry A, 2012, 116, 2686-2690.	1.1	29
113	Two-body Coulomb explosion in methylacetylene in intense laser fields: double proton migration and proton/deuteron exchange. Physical Chemistry Chemical Physics, 2012, 14, 4230.	1.3	20
114	Quantum Mechanics of Molecular Structures. , 2012, , .		15
115	Enhanced ionization of acetylene in intense laser fields. Physical Review A, 2012, 85, .	1.0	31
116	D3+and H3+in intense laser fields studied with a quasiclassical model. Physical Review A, 2012, 85, .	1.0	16
117	XUV Interferometry of Attosecond Pulses. Springer Proceedings in Physics, 2012, , 127-135.	0.1	0
118	Protonic Configuration of CH3OH within a Diatomic-Like Molecular Picture. Springer Proceedings in Physics, 2012, , 299-303.	0.1	0
119	Laser-Assisted Electron Scattering and Its Application to Laser-Assisted Electron Diffraction of Molecules in Femtosecond Intense Laser Fields. Springer Proceedings in Physics, 2012, , 351-356.	0.1	1
120	Full-scanning nonlinear Fourier-transform spectroscopy of D<inf>2</inf> using high-order harmonic radiation. , 2011, , .		0
121	High Energy Proton Ejection from Hydrocarbon Molecules Driven by Highly Efficient Field Ionization. Physical Review Letters, 2011, 106, 163001.	2.9	52
122	Three-photon double ionization of Ar studied by photoelectron spectroscopy using an extreme ultraviolet free-electron laser: manifestation of resonance states of an intermediate Ar⁺ion. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 071001.	0.6	20
123	Ultrafast delocalization of hydrogen atoms in allene in intense laser fields. Applied Physics A: Materials Science and Processing, 2011, 104, 941-945.	1.1	11
124	Apparatus for laser-assisted electron scattering in femtosecond intense laser fields. Review of Scientific Instruments, 2011, 82, 123105.	0.6	22
125	Full-scanning nonlinear Fourier-transform spectroscopy of D<inf>2</inf> using high-order harmonic radiation. , 2011, , .		0
126	High energy proton ejection from hydrocarbon molecules driven by highly efficient field ionization. , 2011, , .		0

#	Article	IF	Citations
127	Ultrafast Hydrogen Migration in Hydrocarbon Molecules Driven by Intense Laser Fields. Springer Series in Chemical Physics, 2011, , 35-52.	0.2	7
128	Nonlinear Fourier-transform spectroscopy ofD2using high-order harmonic radiation. Physical Review A, 2010, 82, .	1.0	35
129	Non-adiabatic transition in C2H5OH+ on a light-dressed potential energy surface by ultrashort pump-and-probe laser pulses. Applied Physics B: Lasers and Optics, 2010, 98, 275-282.	1.1	7
130	Hydrogen migration and Câ€“C bond breaking in 1,3-butadiene in intense laser fields studied by coincidence momentum imaging. Chemical Physics Letters, 2010, 484, 119-123.	1.2	22
131	Observation of Laser-Assisted Electron-Atom Scattering in Femtosecond Intense Laser Fields. Physical Review Letters, 2010, 105, 123202.	2.9	89
132	Communication: Two stages of ultrafast hydrogen migration in methanol driven by intense laser fields. Journal of Chemical Physics, 2010, 133, 071103.	1.2	40
133	Two-proton migration in 1,3-butadiene in intense laser fields. Physical Chemistry Chemical Physics, 2010, 12, 12939.	1.3	23
134	Momentum Imaging Of Three-Body Fragmentation Pathways In Polyatomic Molecules. , 2010, , .		0
135	Ultrafast hydrogen migration in allene in intense laser fields: Evidence in three-body Coulomb explosion. , 2010, , .		0
136	Tracing ultrafast hydrogen migration in allene in intense laser fields by triple-ion coincidence momentum imaging. Journal of Chemical Physics, 2009, 131, 151102.	1.2	54
137	Time-dependent multiconfiguration theory for describing molecular dynamics in diatomic-like molecules. Journal of Chemical Physics, 2009, 131, 164118.	1.2	55
138	Ultrafast hydrogen migration in allene in intense laser fields: Evidence of two-body Coulomb explosion. Chemical Physics Letters, 2009, 469, 255-260.	1.2	56
139	Ionization of and H 2 + in intense laser fields: Excited state dynamics. Laser Physics, 2009, 19, 1712-1722.	0.6	13
140	Fourier Spectroscopy of Fragmentation of D2+ Irradiated with Attosecond Pulse Trains. , 2009, , .		0
141	Ultrafast Hydrogen Migration in Hydrocarbon Molecules in Ultrafast Intense Laser Fields. , 2009, , .		0
142	Fixing chiral molecules in space by intense two-color phase-locked laser fields. Chemical Physics Letters, 2008, 451, 1-7.	1.2	26
143	Intense laser-induced decomposition of mass-selected 2-, 3-, and 4-methylaniline cations. Chemical Physics Letters, 2008, 462, 27-30.	1.2	2
144	Dissociative two-photon ionization of N2 in extreme ultraviolet by intense self-amplified spontaneous emission free electron laser light. Applied Physics Letters, 2008, 92, .	1.5	45

#	Article	IF	Citations
145	Efficient ejection of H3+ from hydrocarbon molecules induced by ultrashort intense laser fields. Journal of Chemical Physics, 2008, 129, 104302.	1.2	82
146	Attosecond nonlinear Fourier transformation spectroscopy of CO2 in extreme ultraviolet wavelength region. Journal of Chemical Physics, 2008, 129, 161103.	1.2	36
147	Controlling the dissociative ionization of ethanol with 800 and 400nm two-color femtosecond laser pulses. Journal of Chemical Physics, 2007, 127, 124312.	1.2	11
148	Measurements of Molecular Alignment in an Intense Laser Field by Pulsed Undulator Radiation. AIP Conference Proceedings, 2007, , .	0.3	0
149	Two-body Coulomb explosion and hydrogen migration in methanol induced by intense 7 and 21fs laser pulses. Journal of Chemical Physics, 2007, 127, 104306.	1.2	52
150	Observation and analysis of an interferometric autocorrelation trace of an attosecond pulse train. Physical Review A, 2007, 75, .	1.0	28
151	Visualization of Vibrational Wave Packet via Coulomb Explosion in Poly-Atomic Molecules. , 2007, , .		0
152	Attosecond Nonlinear Optics. , 2007, , .		0
153	Dissociation of water molecules in carrier-envelope phase controlled intense few-cycle laser fields. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
154	Attosecond nonlinear optics. , 2007, , .		0
155	Photodissociating small Polyatomic Molecules in the vuv Region: Resonances in the 1 Î£+ -1 Î£+ Band of ocs. Advances in Chemical Physics, 2007, , 789-798.	0.3	2
156	Direct temporal characterization of attosecond pulse trains. , 2007, , .		0
157	Observation of interferometric autocorrelation trace of an attosecond pulse train. , 2007, , .		0
158	Ultrafast Hydrogen Migration in Hydrocarbon Molecules in Intense Laser Fields. , 2007, , .		0
159	Coulomb Explosion Imaging of Molecular Dynamics in Intense Laser Fields. Springer Series in Chemical Physics, 2007, , 1-24.	0.2	3
160	Nonlinear Interaction of Attosecond XUV Pulses with Atoms and Molecules. The Review of Laser Engineering, 2007, 35, 697-704.	0.0	2
161	Preface to Special Issue on Control of Molecules in Intense Laser Fields. The Review of Laser Engineering, 2007, 35, 680-684.	0.0	0
162	Control of Dissociative Ionization of Ethanol Molecule by Cascaded Double Ultrashort Laser Pulse Excitation. Springer Series in Chemical Physics, 2007, , 558-560.	0.2	0

#	Article	IF	Citations
163	Control in Dissociative Ionization of Ethanol Molecules and Direct Visualization of Vibrational Nuclear Wavepacket Evolution with Shaped Femtosecond Laser Pulses. The Review of Laser Engineering, 2007, 35, 710-719.	0.0	0
164	Coincidence momentum imaging of ejection of hydrogen molecular ions from methanol in intense laser fields. Chemical Physics Letters, 2006, 419, 223-227.	1.2	74
165	Three-body sequential Coulomb explosions of CH3OD3+ induced by intense laser fields. Chemical Physics Letters, 2006, 423, 187-191.	1.2	16
166	Coincidence momentum imaging of ultrafast hydrogen migration in methanol and its isotopomers in intense laser fields. Chemical Physics Letters, 2006, 423, 220-224.	1.2	78
167	Attosecond molecular Coulomb explosion. Chemical Physics Letters, 2006, 432, 68-73.	1.2	43
168	Photoelectron spectroscopy of two-photon ionisation of rare-gas atoms by multiple high order harmonics. Applied Physics B: Lasers and Optics, 2006, 83, 203-211.	1.1	13
169	Ejection dynamics of hydrogen molecular ions from methanol in intense laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S515-S521.	0.6	44
170	Dissociative ionization of ethanol by 400nm femtosecond laser pulses. Journal of Chemical Physics, 2006, 125, 184311.	1.2	11
171	Dissociative ATI of H2and D2in intense soft x-ray laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 813-829.	0.6	33
172	Conclusive Evidence of an Attosecond Pulse Train Observed with the Mode-Resolved Autocorrelation Technique. Physical Review Letters, 2006, 96, 083901.	2.9	126
173	Interferometric Autocorrelation of an Attosecond Pulse Train in the Single-Cycle Regime. Physical Review Letters, 2006, 97, 153904.	2.9	132
174	Molecules in the strong attosecond XUV field. , 2006, , .		0
175	Dissociation of water molecule in intense laser fields and its dependence on pulse duration. , 2006, , .		0
176	Controllability of dissociative ionization of ethanol molecule by superposition of 800nm and 400nm femtosecond laser pulses. , 2006, , .		0
177	Ejection of triatomic hydrogen molecular ion from methanol in intense laser fields. Chemical Physics Letters, 2005, 414, 117-121.	1.2	75
178	Probing the ultrafast nuclear motion in CS22+ in intense laser fields. Journal of Chemical Physics, 2005, 122, 151104.	1.2	22
179	Concerted and sequential Coulomb explosion processes of N2O in intense laser fields by coincidence momentum imaging. Journal of Chemical Physics, 2005, 123, 154305.	1.2	31
180	Interaction of intense high-order harmonics with molecules and solids. , 2005, , .		0

#	Article	IF	Citations
181	Ejection of hydrogen molecular ion from hydrocarbon molecules in intense laser fields. , 2005, , .		0
182	Dissociative ionization of ethanol using 400nm and 800nm femtosecond laser pulses. , 2005, , .		0
183	Time-dependent nuclear wavepacket dynamics of H+2by quasi-stationary Floquet approach. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 3919-3936.	0.6	23
184	Hydrogen migration in acetonitrile in intense laser fields in competition with two-body Coulomb explosion. Journal of Electron Spectroscopy and Related Phenomena, 2004, 141, 195-200.	0.8	66
185	Nuclear dynamics on the light-dressed potential energy surface of CS2 by coincidence momentum imaging. Chemical Physics Letters, 2004, 388, 1-6.	1.2	27
186	Formation of [C5H6(NH3)2]+ and [NH4(NH3)]+ (m= 1â€“3) from size-selected anilineâ€“ammonia cluster cations in intense laser fields. Chemical Physics Letters, 2004, 396, 208-212.	1.2	14
187	Photodecomposition reaction of trapped aniline cation by photofragment excitation spectroscopy. Chemical Physics Letters, 2004, 397, 237-241.	1.2	12
188	Hydrogen Migration in Acetonitrile in Intense Laser Fields Studied by Coincidence Momentum Imaging. Physica Scripta, 2004, 110, 108.	1.2	15
189	ALGEBRAIC APPROACH TO VIBRATIONALLY HIGHLY EXCITED POLYATOMIC MOLECULES. , 2004, , .		0
190	New vibrational force-field expansion of coupled linear benders: application to the X state of acetylene. Chemical Physics Letters, 2003, 375, 576-582.	1.2	3
191	Suppression of decomposition of aniline cation in intense laser fields by cluster formation with NH3 and H2O. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 158, 77-81.	2.0	6
192	Dissociative ionization of ethanol in chirped intense laser fields. Journal of Chemical Physics, 2003, 119, 4179-4186.	1.2	81
193	Alignment of CS2 in intense nanosecond laser fields probed by pulsed gas electron diffraction. Journal of Chemical Physics, 2003, 118, 6211-6221.	1.2	36
194	Photofragment emission yield spectroscopy of acetylene in the DÌƒâ€Š1Îu, á¤¼â€Š1A, and FÌƒâ€Š1Î£u+ states by vacuum ultraviolet and infrared vacuum ultraviolet double-resonance laser excitations. Journal of Chemical Physics, 2002, 117, 1040-1046.	1.2	9
195	Ultrafast Dynamics of Molecules in Intense Laser-Light Fields: New Research Directions. ACS Symposium Series, 2002, , 251-266.	0.5	2
196	LASER CHEMISTRY AND PHYSICS: The Next Frontier. Science, 2002, 295, 1659-1660.	6.0	201
197	Algebraic effective resonance Hamiltonian approach to highly excited SO2(XÌƒâ€Š1A1): Effect of bending excitation on local-mode bifurcation. Journal of Chemical Physics, 2002, 117, 1641-1648.	1.2	18
198	Suppression of decomposition of aniline cation in intense laser fields by cluster formation with ammonia molecules. Journal of Chemical Physics, 2002, 116, 9697-9702.	1.2	10

#	Article	IF	Citations
199	Coincidence Imaging of Coulomb Explosion of CS2 in Intense Laser Fields. AIP Conference Proceedings, 2002, , .	0.3	83
200	Direct Observation of Molecular Alignment in Intense Laser Fields by Pulsed Gas Electron Diffraction. AIP Conference Proceedings, 2002, , .	0.3	0
201	Direct observation of molecular alignment in an intense laser field by pulsed gas electron diffraction I: observation of anisotropic diffraction image. Chemical Physics Letters, 2002, 353, 27-32.	1.2	22
202	Direct observation of molecular alignment in an intense laser field by pulsed gas electron diffraction II: analysis of anisotropic diffraction image. Chemical Physics Letters, 2002, 353, 33-39.	1.2	12
203	Sequential three-body Coulomb explosion of CS2 in intense laser fields appearing in momentum correlation map. Chemical Physics Letters, 2002, 361, 245-250.	1.2	66
204	Classical-limit analysis of the normal-to-local transition by the algebraic effective Hamiltonian approach. Journal of Chemical Physics, 2001, 114, 9441-9452.	1.2	21
205	Real-time probing of alignment and structural deformation of CS2 in intense nanosecond laser fields. Chemical Physics Letters, 2001, 346, 379-386.	1.2	22
206	Coincidence imaging of Coulomb explosion of CS2 in intense laser fields. Chemical Physics Letters, 2001, 349, 57-63.	1.2	123
207	Ionization and fragmentation dynamics of benzene in intense laser fields by tandem mass spectroscopy. Journal of Chemical Physics, 2001, 114, 5598-5606.	1.2	64
208	The infrared-ultraviolet dispersed fluorescence spectrum of acetylene: New classes of bright states. Journal of Chemical Physics, 2001, 114, 7424-7442.	1.2	38
209	Light-induced multiple electronic-state coupling of O2+ in intense laser fields. Journal of Chemical Physics, 2001, 114, 9856-9862.	1.2	38
210	Molecular Science in Intense Laser-light Fields. The Review of Laser Engineering, 2001, 29, 8-8.	0.0	0
211	Intense Optical Field Science. Dynamics of Molecules in Intense Laser-Light Fields: New Research Directions.. The Review of Laser Engineering, 2001, 29, 243-250.	0.0	0
212	Ultrafast structural deformation of polyatomic molecules in intense laser fields. AIP Conference Proceedings, 2000, , .	0.3	0
213	Extraction of molecular dynamics in intense laser fields from mass-resolved momentum imaging maps: application to Coulomb explosion of NO. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 223-240.	0.6	53
214	Severely perturbed vibrational structure in the 266â€“310 nm electronic transition of C3. Journal of Chemical Physics, 2000, 113, 10999-11008.	1.2	6
215	Intermultiplet interactions in normal and local mode molecules in the algebraic force-field expansion approach. Journal of Chemical Physics, 2000, 113, 7292-7305.	1.2	19
216	Resonance-state selective photodissociation of OCS (2â€Š1Î£+): Rotational and vibrational distributions of CO fragments. Journal of Chemical Physics, 2000, 113, 6598-6607.	1.2	14

#	Article	IF	Citations
217	Algebraic force-field Hamiltonian expansion approach to linear polyatomic molecules. Journal of Chemical Physics, 2000, 113, 6063-6069.	1.2	17
218	Ultrafast structural deformation of NO2 in intense laser fields studied by mass-resolved momentum imaging. Journal of Chemical Physics, 1999, 111, 8871-8878.	1.2	47
219	Ultrafast Deformation of the Geometrical Structure ofCO2Induced in Intense Laser Fields. Physical Review Letters, 1999, 83, 1127-1130.	2.9	147
220	Mass-resolved two-dimensional momentum imaging of the Coulomb explosion of N2 and SO2 in an intense laser field. Chemical Physics Letters, 1998, 282, 283-291.	1.2	73
221	Coulomb explosion dynamics of N2O in intense laser-field: Identification of new two-body and three-body fragmentation pathways. Research on Chemical Intermediates, 1998, 24, 765-784.	1.3	24
222	Coulomb explosion dynamics of N2 in intense laser field by mass-resolved momentum imaging. Chemical Physics, 1998, 231, 315-329.	0.9	54
223	New Ãƒâ€“XÌƒ vibronic bands of laser-vaporized C3. Journal of Chemical Physics, 1998, 109, 1810-1818.	1.2	24
224	Î©-type doubling reversal in the Bâ€‰3Î1 state of 200HgAr as a probe of the long-range potential of the Aâ€‰3Î0+ state. Journal of Chemical Physics, 1998, 108, 9202-9205.	1.2	7
225	Mass-resolved VUV laser spectroscopy of XeAr: Two competing predissociation pathways in the C1 state. Journal of Chemical Physics, 1998, 108, 5330-5337.	1.2	8
226	Coulomb explosion dynamics of N2O in intense laser-field: Identification of new two-body and three-body fragmentation pathways. , 1998, 24, 765.		1
227	Tunable vacuum ultraviolet laser spectroscopy of XeAr and XeNe near 68â€‰000 cmâ¯1: Interatomic potentials mediated by a 6sRydberg electron. Journal of Chemical Physics, 1996, 105, 1825-1832.	1.2	13
228	Electronic structure of metalâ€“rare gas dimers with sp configuration: Application to strong spinâ€“orbit interaction in HgAr. Journal of Chemical Physics, 1996, 104, 9376-9387.	1.2	12
229	Interatomic potentials of singlet sâ€Rydberg series of a HgNe van der Waals dimer: Evidence for stabilization by superexchange interaction. Journal of Chemical Physics, 1995, 102, 1129-1140.	1.2	22
230	INTRAMOLECULAR VIBRATIONAL DYNAMICS OF HIGHLY EXCITED SO₂ AND ACETYLENE: COMBINATION OF SEP AND DF SPECTROSCPOY. Advanced Series in Physical Chemistry, 1995, , 491-511.	1.5	0
231	New Scheme for Extracting Molecular Dynamics from Spectra: Case Study on Vibrationally Highly Excited Acetylene. Laser Chemistry, 1994, 14, 183-190.	0.5	11
232	Tunable vacuum ultraviolet photofragment excitation spectroscopy of OCS. Journal of Chemical Physics, 1994, 101, 836-839.	1.2	20
233	Laser induced fluorescence spectroscopy of theBâ€™â€‰1uâ€“Xâ€‰0+gtransition of Xe2: Determination of theBâ€™ state potential and evidence for a barrier to dissociation. Journal of Chemical Physics, 1994, 100, 6153-6159.	1.2	23
234	Feature state assignment and hierarchical and statistical analyses of vibronic and rovibronic level structure of NO2 in the 16â€‰300â€“25â€‰130 cmâ¯1 region. Journal of Chemical Physics, 1994, 101, 4505-4513.	1.2	37

#	Article	IF	Citations
235	Response to â€˜â€˜Comment on â€˜Stateâ€specific unimolecular reaction of NO2 just above the dissociation thresholdâ€™â€™â€™ [J. Chem. Phys. 100, 4714 (1994)]. Journal of Chemical Physics, 1994, 100, 4716-4717.	1.2	12
236	Intramolecular vibrational redistribution of energy in the stimulated emission pumping spectrum of acetylene. Journal of Chemical Physics, 1993, 99, 7350-7370.	1.2	129
237	Interatomic potential of the HgNe van der Waals complex in theE(3Î£+) Rydberg state. Journal of Chemical Physics, 1993, 98, 2675-2681.	1.2	40
238	Stateâ€specific unimolecular reaction of NO2 just above the dissociation threshold. Journal of Chemical Physics, 1993, 99, 254-264.	1.2	77
239	Vibrational spectroscopy and predissociation dynamics of the electronically excited HgAr2 triatomic cluster. Journal of Chemical Physics, 1992, 97, 2305-2317.	1.2	15
240	Intramolecular vibrational relaxation and forbidden transitions in the SEP spectrum of acetylene. Journal of Chemical Physics, 1992, 97, 2813-2816.	1.2	43
241	Vibrationally highly excited acetylene as studied by dispersed fluorescence and stimulated emission pumping spectroscopy: Vibrational assignment of the feature states. Journal of Chemical Physics, 1991, 95, 6330-6342.	1.2	124
242	Vibrational level structure of highly excited SO2 in the electronic ground state. II. Vibrational assignment by dispersed fluorescence and stimulated emission pumping spectroscopy. Journal of Chemical Physics, 1990, 92, 4044-4054.	1.2	101
243	Interatomic potentials of the C1 and D0+ states of XeNe, XeAr, and XeKr as studied by tunable vacuum ultraviolet laser spectroscopy. Journal of Chemical Physics, 1990, 92, 1560-1567.	1.2	35
244	Interatomic potentials of HgKr and HgXe van der Waals complexes in the Aâ€‰30+ and Bâ€‰31 states. Revisited. Journal of Chemical Physics, 1990, 93, 7526-7527.	1.2	45
245	Rydberg and ionâ€pair state mixing in the 1â€‰1Î£+u and 2â€‰3Îu vibronic states of Cl2 as studied by vacuum ultraviolet laser spectroscopy. Journal of Chemical Physics, 1990, 93, 111-120.	1.2	22
246	Interatomic potentials ofAâ€‰30+andBâ€‰31 states of HgHe, HgNe, and HgAr van der Waals complexes. Journal of Chemical Physics, 1988, 88, 205-212.	1.2	97
247	Interatomic potentials of the Câ€‰11 state of HgNe, HgAr, HgKr, and HgXe as studied by tunable vacuum ultraviolet laser spectroscopy. Journal of Chemical Physics, 1988, 89, 4646-4653.	1.2	44
248	Vibrational level structure of highly excited SO2in the electronic ground state as studied by stimulated emission pumping spectroscopy. Journal of Chemical Physics, 1988, 88, 4664-4670.	1.2	60
249	Hyperfine structure in thioformaldehyde. Molecular Physics, 1987, 62, 1429-1433.	0.8	18
250	Molecular structure and conformation of 1-chloropropane as determined by gas electron diffraction and microwave spectroscopy. The Journal of Physical Chemistry, 1984, 88, 2315-2320.	2.9	57
251	Stochastic autoionization via rydberg states of HgNe. , 0, , .		0
252	Fragmentation in dissociative ionization of ethanol molecules with shaped intense ultrafast laser pulses. , 0, , .		0

#	Article	IF	Citations
253	Coulomb explosion dynamics of N/sub 2/O in intense laser fields probed by coincidence momentum imaging. , 0, , .		0
254	Direct observation of molecular dynamics in intense laser fields probed by pulsed gas electron diffraction. , 0, , .		0
255	Dissociative ionization dynamics of ethanol as studied by chirped intense laser pulses. , 0, , .		0