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List of Publications by Year in descending order

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115
papers

4,716
citations

116194

36
h-index

116156

66
g-index

120
all docs

120
docs citations

120
times ranked

1854
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of single-shot attosecond pulses with angular streaking photoelectron spectra. <i>Physical Review A</i> , 2022, 105, .	1.0	7
2	High harmonic generation in mixed XUV and NIR fields at a free-electron laser. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 025502.	1.0	2
3	Molecular structure retrieval directly from laboratory-frame photoelectron spectra in laser-induced electron diffraction. <i>Nature Communications</i> , 2021, 12, 1520.	5.8	20
4	Vibronic coherence and quantum beats of O_2 based on laser pump-probe dissociation dynamics. <i>Physical Review A</i> , 2021, 104, .	1.0	5
5	Laser-induced electron diffraction of the ultrafast umbrella motion in ammonia. <i>Structural Dynamics</i> , 2021, 8, 014301.	0.9	13
6	Robust control of the minima of high-order harmonics by fine-tuning the alignment of CO_2 molecules for shaping attosecond pulses and probing molecular alignment. <i>Physical Review A</i> , 2020, 102, .	1.0	12
7	Factorization of high-order-harmonic-generation yields in impurity-doped materials. <i>Physical Review A</i> , 2020, 102, .	1.0	7
8	Ultrafast imaging of the Renner-Teller effect in a field-dressed molecule. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 092001.	0.3	0
9	Imaging an isolated water molecule with an attosecond electron wave packet. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 072047.	0.3	0
10	Imaging an isolated water molecule using a single electron wave packet. <i>Journal of Chemical Physics</i> , 2019, 151, 024306.	1.2	16
11	Time-resolved imaging of bound and dissociating nuclear wave packets in strong-field ionized iodomethane. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14090-14102.	1.3	22
12	Imaging the Renner-Teller effect using laser-induced electron diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8173-8177.	3.3	41
13	Femtosecond Laser Mass Spectrometry and High Harmonic Spectroscopy of Xylene Isomers. <i>Scientific Reports</i> , 2018, 8, 3789.	1.6	5
14	Following coherent multichannel nuclear wave packets in pump-probe studies of O_2 with ultrashort laser pulses. <i>Physical Review A</i> , 2018, 97, .	1.0	10
15	Elements of the quantitative rescattering theory. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 104001.	0.6	41
16	Real-Time Observation of Molecular Spinning with Angular High-Harmonic Spectroscopy. <i>Physical Review Letters</i> , 2018, 121, 163201.	2.9	60
17	Retrieval of target structure information from laser-induced photoelectrons by few-cycle bicircular laser fields. <i>Physical Review A</i> , 2017, 95, .	1.0	27
18	Influence of permanent dipole and dynamic core-electron polarization on tunneling ionization of polar molecules. <i>Physical Review A</i> , 2017, 95, .	1.0	27

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19	Ionization Study of Isomeric Molecules in Strong-field Laser Pulses. Scientific Reports, 2017, 7, 42149.	1.6	5
20	The possibility for calibrating laser intensity in strong-field-ionization experiments. Journal of Physics: Conference Series, 2017, 875, 032008.	0.3	0
21	Theory of retrieving orientation-resolved molecular information using time-domain rotational coherence spectroscopy. Physical Review A, 2017, 96, .	1.0	15
22	Retrieving transient conformational molecular structure information from inner-shell photoionization of laser-aligned molecules. Scientific Reports, 2016, 6, 23655.	1.6	9
23	High order harmonic generation from SF ₆ : Deconvolution of macroscopic effects. Journal of Chemical Physics, 2016, 145, 224305.	1.2	4
24	Extracting conformational structure information of benzene molecules via laser-induced electron diffraction. Structural Dynamics, 2016, 3, 034303.	0.9	38
25	Influence of orbital symmetry on diffraction imaging with rescattering electron wave packets. Nature Communications, 2016, 7, 11922.	5.8	46
26	Analytical model for calibrating laser intensity in strong-field-ionization experiments. Physical Review A, 2016, 93, .	1.0	30
27	Probing and extracting the structure of vibrating SF_6 with inner-shell photoelectrons. Physical Review A, 2016, 93, .		
28	Ultrafast electron diffraction imaging of bond breaking in di-ionized acetylene. Science, 2016, 354, 308-312.	6.0	243
29	Strong-field approximation and its extension for high-order harmonic generation with mid-infrared lasers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 053001.	0.6	45
30	Diffraction Imaging of Dissociation Channels of Acetylene with Few-femtosecond Resolution. , 2016, , .		0
31	Ultrafast Molecular Structure Determination of Fragmentation Pathways of Acetylene. , 2016, , .		0
32	Reconstruction of two-dimensional molecular structure with laser-induced electron diffraction from laser-aligned polyatomic molecules. Scientific Reports, 2015, 5, 15753.	1.6	12
33	Polyatomic molecular structure retrieval using laser-induced electron diffraction. Journal of Physics: Conference Series, 2015, 635, 072051.	0.3	0
34	Benchmarking accurate spectral phase retrieval of single attosecond pulses. Physical Review A, 2015, 91, .	1.0	4
35	Imaging an aligned polyatomic molecule with laser-induced electron diffraction. Nature Communications, 2015, 6, 7262.	5.8	173
36	Sub-Ångström Scale Imaging of Aligned Acetylene. , 2015, , .		0

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37	Optimized waveforms for enhancing high-harmonic yield by synthesizing multi-color laser fields. , 2014, , .		0
38	Universality of Returning Electron Wave Packet in High-Order Harmonic Generation with Midinfrared Laser Pulses. Physical Review Letters, 2014, 113, 033001.	2.9	30
39	Waveforms for optimal sub-keV high-order harmonics with synthesized two- or three-colour laser fields. Nature Communications, 2014, 5, 4003.	5.8	154
40	Route to optimal generation of soft X-ray high harmonics with synthesized two-color laser pulses. Scientific Reports, 2014, 4, 7067.	1.6	33
41	Atomic-scale imaging of aligned poly-atomic molecules with recollision electron diffraction. , 2014, , .		1
42	High-order-harmonic generation from molecular isomers with midinfrared intense laser pulses. Physical Review A, 2013, 88, .	1.0	10
43	Measuring the angle-dependent photoionization cross section of nitrogen using high-harmonic generation. Physical Review A, 2013, 88, .	1.0	35
44	Quantitative rescattering theory of high-order harmonic generation for polyatomic molecules. Physical Review A, 2013, 87, .	1.0	33
45	High Harmonic Spectroscopy of the Cooper Minimum in Molecules. Physical Review Letters, 2013, 110, 033006.	2.9	61
46	Shape Resonance and Cooper Minimum in High Harmonic Generation from Strongly Aligned Nitrogen. , 2013, , .		0
47	Generation of broad XUV continuous high harmonic spectra and isolated attosecond pulses with intense mid-infrared lasers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 011001.	0.6	22
48	Laser-Induced Electron Diffraction for Probing Rare Gas Atoms. Physical Review Letters, 2012, 109, 233002.	2.9	41
49	Conditions for extracting photoionization cross sections from laser-induced high-order-harmonic spectra. Physical Review A, 2012, 86, .	1.0	10
50	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
51	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
52	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
53	High-order-harmonic generation using gas-phase H ₂ O molecules. Physical Review A, 2011, 83, .	1.0	17
54	Effect of orbital symmetry on the orientation dependence of strong field tunnelling ionization of nonlinear polyatomic molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 035601.	0.6	43

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55	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
56	Influence of gas pressure on high-order-harmonic generation of Ar and Ne. Physical Review A, 2011, 84, .	1.0	23
57	Orientation dependence of the ionization of CO and NO in an intense femtosecond two-color laser field. Physical Review A, 2011, 84, .	1.0	110
58	Generation of isolated attosecond pulses in the far field by spatial filtering with an intense few-cycle mid-infrared laser. Physical Review A, 2011, 84, .	1.0	45
59	Analysis of effects of macroscopic propagation and multiple molecular orbitals on the minimum in high-order harmonic generation of aligned CO. $\langle N \rangle = N \langle \cos^2 \theta \rangle$. Physical	1.0	33
60	Medium propagation effects in high-order harmonic generation of Ar and $N^2 \langle \cos^2 \theta \rangle$. Physical Review A, 2011, 83, .	1.0	108
61	Momentum spectra of electrons rescattered from rare-gas targets following their extraction by one- and two-color femtosecond laser pulses. Physical Review A, 2011, 83, .	1.0	37
62	Polarisation states of high harmonic generation from aligned molecules. Journal of Modern Optics, 2011, 58, 1158-1165.	0.6	8
63	Strong-field rescattering physics—self-imaging of a molecule by its own electrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 122001.	0.6	234
64	Determination of structure parameters in strong-field tunneling ionization theory of molecules. Physical Review A, 2010, 81, .	1.0	118
65	Imaging a chemical reaction. Nature Photonics, 2010, 4, 671-672.	15.6	4
66	Effect of an improved molecular potential on strong-field tunneling ionization of molecules. Physical Review A, 2010, 82, .	1.0	18
67	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
68	Theoretical study of photoelectron angular distributions in single-photon ionization of aligned $N^2 \langle \cos^2 \theta \rangle$ and $N^2 \langle \cos^2 \theta \rangle$	1.0	26
69	Self-imaging of molecules from diffraction spectra by laser-induced rescattering electrons. Physical Review A, 2010, 82, .	1.0	62
70	Accurate Retrieval of Target Structures and Laser Parameters of Few-Cycle Pulses from Photoelectron Momentum Spectra. Physical Review Letters, 2009, 102, 073001.	2.9	54
71	Retrieval of target photorecombination cross sections from high-order harmonics generated in a macroscopic medium. Physical Review A, 2009, 79, .	1.0	73
72	Analysis of angular dependence of strong-field tunneling ionization for $N^2 \langle \cos^2 \theta \rangle$. Physical Review A, 2009, 80, .	1.0	51

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73	Probing Molecular Frame Photoionization via Laser Generated High-Order Harmonics from Aligned Molecules. <i>Physical Review Letters</i> , 2009, 102, 203001.	2.9	66
74	Quantitative rescattering theory for nonsequential double ionization of atoms by intense laser pulses. <i>Physical Review A</i> , 2009, 79, .	1.0	33
75	Robust carrier-envelope phase retrieval of few-cycle laser pulses from high-energy photoelectron spectra in the above-threshold ionization of atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 065402.	0.6	12
76	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
77	Quantitative rescattering theory for laser-induced high-energy plateau photoelectron spectra. <i>Physical Review A</i> , 2009, 79, .	1.0	143
78	Quantitative rescattering theory for high-order harmonic generation from molecules. <i>Physical Review A</i> , 2009, 80, .	1.0	315
79	Accurate retrieval of atomic structures from high-order harmonic spectra. <i>Journal of Physics: Conference Series</i> , 2009, 194, 112005.	0.3	0
80	Origin of species dependence of high-energy plateau photoelectron spectra. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 061001.	0.6	28
81	Extraction of the species-dependent dipole amplitude and phase from high-order harmonic spectra in rare-gas atoms. <i>Physical Review A</i> , 2008, 78, .	1.0	92
82	Theory of high-order harmonic generation from molecules by intense laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 081002.	0.6	51
83	Potential for ultrafast dynamic chemical imaging with few-cycle infrared lasers. <i>New Journal of Physics</i> , 2008, 10, 025011.	1.2	33
84	Retrieval of interatomic separations of molecules from laser-induced high-order harmonic spectra. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 085603.	0.6	21
85	Retrieval of electron-atom scattering cross sections from laser-induced electron rescattering of atomic negative ions in intense laser fields. <i>Physical Review A</i> , 2008, 77, .	1.0	36
86	Signature of Ericson fluctuations in helium inelastic scattering cross sections near the double ionization threshold. <i>Physical Review A</i> , 2008, 78, .	1.0	9
87	Retrieving photorecombination cross sections of atoms from high-order harmonic spectra. <i>Physical Review A</i> , 2008, 78, .	1.0	81
88	Accurate Retrieval of Structural Information from Laser-Induced Photoelectron and High-Order Harmonic Spectra by Few-Cycle Laser Pulses. <i>Physical Review Letters</i> , 2008, 100, 013903.	2.9	371
89	Large-Angle Electron Diffraction Structure in Laser-Induced Rescattering from Rare Gases. <i>Physical Review Letters</i> , 2008, 100, 143002.	2.9	111
90	Analysis of two-dimensional high-energy photoelectron momentum distributions in the single ionization of atoms by intense laser pulses. <i>Physical Review A</i> , 2007, 76, .	1.0	62

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91	Theoretical analysis of dynamic chemical imaging with lasers using high-order harmonic generation. <i>Physical Review A</i> , 2007, 76, .	1.0	80
92	Alignment dependence of high-order harmonic generation from CO ₂ . <i>Journal of Modern Optics</i> , 2007, 54, 967-980.	0.6	25
93	POSITRON-ATOM BOUND STATES AND INTERACTIONS. , 2006, , .		0
94	Evidence of two-center interference in high-order harmonic generation from CO ₂ . <i>Physical Review A</i> , 2006, 73, .	1.0	72
95	Analysis of two-dimensional photoelectron momentum spectra and the effect of the long-range Coulomb potential in single ionization of atoms by intense lasers. <i>Physical Review A</i> , 2006, 74, .	1.0	118
96	Hyperspherical close-coupling calculations for electron-capture cross sections in low-energy Ne ¹⁰⁺ +H(1s) collisions. <i>Physical Review A</i> , 2006, 74, .	1.0	3
97	Protonium formation in the p _{1/2} -H collision at low energies by a new diabatic approach. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
98	New and Old Theoretical Tools for Evaluating Cross Sections for Ion-Atom Collisions. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
99	Charge transfer in slow collisions of C ⁶⁺ with H below 1 keV/amu. <i>Physical Review A</i> , 2005, 72, .	1.0	6
100	Muon transfer from muonic hydrogen to atomic oxygen and nitrogen. <i>Physical Review A</i> , 2005, 71, .	1.0	16
101	Positronium formation in positron-Li and positron-Na collisions at low energies. <i>Physical Review A</i> , 2005, 71, .	1.0	32
102	Signature of chaos in high-lying doubly excited states of the helium atom. <i>Physical Review A</i> , 2005, 72, .	1.0	13
103	Charge transfer in slow collisions of O ⁸⁺ and Ar ⁸⁺ ions with H(1s) below 2 keV/amu. <i>Physical Review A</i> , 2004, 70, .	1.0	14
104	Comparison of hyperspherical versus common-reaction-coordinate close-coupling methods for ion-atom collisions at low energies. <i>Physical Review A</i> , 2004, 69, .	1.0	23
105	Protonium formation in the p _{1/2} -H collision at low energies by a diabatic approach. <i>Physical Review A</i> , 2004, 69, .	1.0	26
106	Hyperspherical close-coupling calculations for charge-transfer cross sections in He ²⁺ +H(1s) collisions at low energies. <i>Physical Review A</i> , 2003, 67, .	1.0	46
107	Charge transfer and excitation in slow 20 eV/amu H ²⁺ +D(1s) collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 4081-4088.	0.6	10
108	Charge transfer in slow collisions of C ⁴⁺ with H below 1 keV/amu. <i>Physical Review A</i> , 2003, 68, .	1.0	8

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109	Charge transfer in slow collisions of H ⁺ with Na. Physical Review A, 2003, 68, .	1.0	10
110	Hyperspherical close-coupling calculations for charge transfer cross sections in Si ⁴⁺ H(D) and Be ⁴⁺ H collisions at low energies. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 3281-3291.	0.6	16
111	Operator method in solving non-linear equations of the Hartree-Fock type. Journal of Physics Condensed Matter, 1998, 10, 11679-11686.	0.7	0
112	Relativistic dynamical polarizability of hydrogen-like atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 2897-2906.	0.6	10
113	Operator representation of the Dirac Coulomb Green function and relativistic polarizability of hydrogen-like atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 4083-4094.	0.6	14
114	Rescattering and Laser-Induced Electron Diffraction. , 0, , 164-199.		0
115	CHAPTER 13. Elements of Structure Retrieval in Ultrafast Electron and Laser-induced Electron Diffraction from Aligned Polyatomic Molecules. RSC Theoretical and Computational Chemistry Series, 0, , 462-493.	0.7	1