Kenichi L Ishikawa

List of Publications by Year
in descending order

98 papers	3,016 citations	28 h-index 186209	54 g-index 161767
98 all docs	98 docs citations	98 times ranked	1927 citing authors

#	Article	IF	Citations
1	Coherent Water Window X Ray by Phase-Matched High-Order Harmonic Generation in Neutral Media. Physical Review Letters, 2008, 101, 253901.	2.9	325
2	Nonlinear optical response of graphene in time domain. Physical Review B, 2010, 82, .	1.1	219
3	Multiphoton ionization of He by using intense high-order harmonics in the soft-x-ray region. Physical Review A, 2005, 71, .	1.0	159
4	Time-dependent complete-active-space self-consistent-field method for multielectron dynamics in intense laser fields. Physical Review A, 2013, 88, .	1.0	159
5	Photoemission and Ionization of He+ under Simultaneous Irradiation of Fundamental Laser and High-Order Harmonic Pulses. Physical Review Letters, 2003, 91, 043002.	2.9	158
6	Intracycle and intercycle interferences in above-threshold ionization: The time grating. Physical Review A, 2010, 81, .	1.0	153
7	Dramatic Enhancement of High-Order Harmonic Generation. Physical Review Letters, 2007, 99, 053904.	2.9	122
8	Trajectory analysis of high-order-harmonic generation from periodic crystals. Physical Review A, 2017, 95, .	1.0	106
9	Polarization-Resolved Study of High Harmonics from Bulk Semiconductors. Physical Review Letters, 2018, 120, 243903.	2.9	78
10	Time-dependent multiconfiguration self-consistent-field method based on the occupation-restricted multiple-active-space model for multielectron dynamics in intense laser fields. Physical Review A, 2015, 91, .	1.0	74
11	Communication: Time-dependent optimized coupled-cluster method for multielectron dynamics. Journal of Chemical Physics, 2018, 148, 051101.	1.2	74
12	Time-dependent complete-active-space self-consistent-field method for atoms: Application to high-order harmonic generation. Physical Review A, 2016, 94, .	1.0	73
13	Above-threshold double ionization of helium with attosecond intense soft x-ray pulses. Physical Review A, 2005, 72, .	1.0	64
14	Diffraction at a time grating in above-threshold ionization: The influence of the Coulomb potential. Physical Review A, 2010, 82, .	1.0	63
15	Competition of Resonant and Nonresonant Paths in Resonance-Enhanced Two-Photon Single Ionization of He by an Ultrashort Extreme-Ultraviolet Pulse. Physical Review Letters, 2012, 108, 033003.	2.9	63
16	A Review on Ab Initio Approaches for Multielectron Dynamics. IEEE Journal of Selected Topics in Quantum Electronics, 2015, , 1-1.	1.9	56
17	High-order harmonic generation from hybrid organic–inorganic perovskite thin films. APL Materials, 2019, 7, .	2.2	49
18	Electronic response of graphene to an ultrashort intense terahertz radiation pulse. New Journal of Physics, 2013, 15, 055021.	1.2	43

#	ARTICLE	IF	CITATIONS
19	Implementation of the infinite-range exterior complex scaling to the time-dependent complete-active-space self-consistent-field method. Physical Review A, 2018, 97, .	1.0	39
20	Propagating two-particle reduced density matrices without wave functions. Physical Review A, 2015, 91, .	1.0	38
21	Polymer gel dosimeter with AQUAJOINT Â® as hydrogel matrix. Radiation Physics and Chemistry, 2018, 146, 121-125.	1.4	38
22	Two-photon ionization of He+ as a nonlinear optical effect in the soft-x-ray region. Physical Review A, 2002, 65, .	1.0	37
23	Radiological properties of nanocomposite Fricke gel dosimeters for heavy ion beams. Journal of Radiation Research, 2016, 57, 318-324.	0.8	32
24	Efficient photoemission and ionization of He+ by a combined fundamental laser and high-order harmonic pulse. Physical Review A, 2004, 70, .	1.0	31
25	Single-attosecond pulse generation using a seed harmonic pulse train. Physical Review A, 2007, 75, .	1.0	31
26	Time-dependent multiconfiguration self-consistent-field study on resonantly enhanced high-order harmonic generation from transition-metal elements. Physical Review A, 2019, 99, .	1.0	31
27	Organic-Gelatin-Free Nanocomposite Fricke Gel Dosimeter. Journal of Physical Chemistry B, 2017, 121, 4238-4246.	1.2	30
28	High-harmonic spectra from time-dependent two-particle reduced-density-matrix theory. Physical Review A, 2017, 95, .	1.0	28
29	High-Harmonic Generation Enhanced by Dynamical Electron Correlation. Physical Review Letters, 2017, 118, 203202.	2.9	28
30	Role of virtual band population for high harmonic generation in solids. Physical Review B, 2020, 102, .	1.1	28
31	Detecting electron-phonon coupling during photoinduced phase transition. Physical Review B, 2021, 103, .	1.1	28
32	Time-dependent Hartree-Fock study of electron-hole interaction effects on high-order harmonic generation from periodic crystals. Physical Review A, 2018, 98, .	1.0	27
33	Atomic, molecular and optical physics applications of longitudinally coherent and narrow bandwidth Free-Electron Lasers. Physics Reports, 2021, 904, 1-59.	10.3	27
34	Photoelectron Angular Distribution and Phase in Two-Photon Single Ionization of H and He by a Femtosecond and Attosecond Extreme-Ultraviolet Pulse. Applied Sciences (Switzerland), 2013, 3, 189-213.	1.3	26
35	Implementation of the multiconfiguration time-dependent Hatree-Fock method for general molecules on a multiresolution Cartesian grid. Physical Review A, 2016, 93, .	1.0	26
36	Attosecond cascades and time delays in one-electron photoionization. Physical Review A, 2012, 86, .	1.0	25

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37	Time-dependent optimized coupled-cluster method for multielectron dynamics. II. A coupled electron-pair approximation. Journal of Chemical Physics, 2020, 152, 124115.	1.2	25
38	High-power regime of femtosecond-laser pulse propagation in silica: Multiple-cone formation. Physical Review E, 2002, 66, 056608.	0.8	24
39	New Method for Measuring Angle-Resolved Phases in Photoemission. Physical Review X, 2020, 10, .	2.8	23
40	Wavelength dependence of high-order harmonic generation with independently controlled ionization and ponderomotive energy. Physical Review A, 2009, 80, .	1.0	22
41	Complete Characterization of Phase and Amplitude of Bichromatic Extreme Ultraviolet Light. Physical Review Letters, 2019, 123, 213904.	2.9	21
42	Attoclocks play devil's advocate. Nature Physics, 2011, 7, 371-372.	6.5	20
43	High-order harmonic generation enhanced by laser-induced electron recollision. Physical Review A, 2019, 99, .	1.0	20
44	Analysis of strong-field enhanced ionization of molecules using Bohmian trajectories. Physical Review A, 2014, 90, .	1.0	19
45	The structure of approximate two electron wavefunctions in intense laser driven ionization dynamics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 204031.	0.6	18
46	A fully general time-dependent multiconfiguration self-consistent-field method for the electron–nuclear dynamics. Physical Chemistry Chemical Physics, 2017, 19, 22008-22015.	1.3	16
47	Application of the time-dependent surface flux method to the time-dependent multiconfiguration self-consistent-field method. Physical Review A, 2019, 100, .	1.0	16
48	Temporal Young's interference experiment by attosecond double and triple soft-x-ray pulses. Physical Review A, 2006, 74, .	1.0	15
49	Time-dependent optimized coupled-cluster method for multielectron dynamics. III. A second-order many-body perturbation approximation. Journal of Chemical Physics, 2020, 153, 034110.	1.2	15
50	Coherent control of extreme uv absorption and photoemission by the simultaneous irradiation of ultrashort extreme uv and laser pulses. Physical Review A, 2002, 65, .	1.0	14
51	Gauge-Invariant Formulation of Time-Dependent Configuration Interaction Singles Method. Applied Sciences (Switzerland), 2018, 8, 433.	1.3	14
52	Asymmetric single-cycle control of valence electron motion in polar chemical bonds. Optica, 2021, 8, 382.	4.8	13
53	Whole Three-Dimensional Dosimetry of Carbon Ion Beams with an MRI-Based Nanocomposite Fricke Gel Dosimeter Using Rapid T1 Mapping Method. Gels, 2021, 7, 233.	2.1	13
54	Resonance enhancement of harmonics in the vicinity of 32 nm spectral range during propagation of femtosecond pulses through the molybdenum plasma. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 195401.	0.6	12

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55	Two-photon ionization of atoms by ultrashort laser pulses. Journal of Modern Optics, 2010, 57, 999-1007.	0.6	10
56	Gauge invariance beyond the electric dipole approximation. Physical Review A, 2018, 98, .	1.0	10
57	Numerical Study on Platelet Adhesion to Vessel Walls using the Kinetic Monte Carlo Method. Journal of Biomechanical Science and Engineering, 2012, 7, 275-283.	0.1	9
58	Implementation of a gauge-invariant time-dependent configuration-interaction-singles method for three-dimensional atoms. Physical Review A, 2019, 100, .	1.0	9
59	Study of laser-driven multielectron dynamics of Ne atom using time-dependent optimised second-order many-body perturbation theory. Molecular Physics, 2020, 118, e1813910.	0.8	9
60	Time-dependent optimized coupled-cluster method for multielectron dynamics. IV. Approximate consideration of the triple excitation amplitudes. Journal of Chemical Physics, 2021, 154, 234104.	1.2	9
61	Implementation of a time-dependent multiconfiguration self-consistent-field method for coupled electron-nuclear dynamics in diatomic molecules driven by intense laser pulses. Physical Review A, 2021, 104, .	1.0	9
62	Particle-in-cell simulations of multiple ionization of small molecules in a strong laser field. Physical Review A, 2000, 61, .	1.0	7
63	Fully Automated Data Acquisition for Laser Production Cyber-Physical System. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	1.9	7
64	Time-Dependent Complete-Active-Space Self-Consistent-Field Method for Ultrafast Intense Laser Science. Springer Series in Chemical Physics, 2018, , 143-171.	0.2	5
65	High harmonic generation from GaSe in a deep-UV range well above the bandgap. , 2022, 1, 1232.		5
66	Theoretical study of pulse delay effects in the photoelectron angular distribution of near-threshold EUV+IR two-photon ionization of atoms. Physical Review A, 2014, 90, .	1.0	4
67	Attosecond Optical and Ramsey-Type Interferometry by Postgeneration Splitting of Harmonic Pulse. Ultrafast Science, 2022, 2022, .	5.8	4
68	Semiclassical description of electron dynamics in extended systems under intense laser fields. Physical Review B, 2021, 104, .	1.1	3
69	Comparison between quantum and classical calculations for above threshold ionization of argon. European Physical Journal D, 2019, 73, 1.	0.6	2
70	Design of Subwavelength Diffractive Optical Elements using Genetic Algorithm and FDTD Method. IEEJ Transactions on Electronics, Information and Systems, 2007, 127, 1298-1303.	0.1	2
71	Isolated Attosecond Pulse Generation by Direct Optimization of Two-Color Laser Fields Using the Genetic Algorithm. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1278-1282.	0.1	2
72	Interferometric extraction of photoionization-path amplitudes and phases from time-dependent multiconfiguration self-consistent-field simulations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 074001.	0.6	1

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73	Atomic real-space perspective of light-field-driven currents in graphene. New Journal of Physics, 2022, 24, 033051.	1.2	1
74	Pressure ionization of dense plasmas in spherical ion-cell model with spin-orbit interactions. AIP Conference Proceedings, 1996, , .	0.3	0
75	1P442 Effect of reliability in the Bayesian inference model of neural networks in the presence of multiple perceptions(18. Neuro-infomatics,Poster Session,Abstract,Meeting Program of EABS &BSJ) Tj ETQq1 0.0784314 rgBT /Ov		
76	Coherent control of stepwise and direct multiphoton ionization in the ultrashort pulse regime. , 2006, , .		0
77	Attosecond double- and triple-slit experiment. , 2006, , .		0
78	Single attosecond pulse generation using a seed harmonic pulse train. , 2007, , .		0
79	Dramatic enhancement of high-order harmonic generation in mixed gases. , 2007, , .		0
80	Single Attosecond Pulse Generation Using a Seed Harmonic Pulse Train. , 2007, , .		0
81	Single attosecond pulse generation using a seed harmonic pulse train. , 2007, , .		0
82	Dramatic enhancement of high-order harmonic generation in mixed gases. , 2007, , .		0
83	Correlation-driven electron dynamics in attosecond photoionization of helium. , 2013, , .		0
84	Time-dependent complete active-space self-consistent field method for multielectron dynamics in intense laser fields. , 2013, , .		0
85	Analysis of strong-field enhanced ionization of molecules using Bohmian trajectories. , 2013, , .		0
86	Tailoring extreme-ultraviolet light. Nature Photonics, 2017, 11, 209-210.	15.6	0
87	Polarization property of high harmonics generated from crystalline semiconductors excited by mid-infrared pulses. , 2017, , .		0
88	Extended solid-state three-step model for high-harmonic generation from periodic crystals. , 2017, , .		0
89	Attosecond optical and Ramsey-type interference. , 2021, , .		0
90	Vlasov Simulation of Electron Dynamics in Solids Under Intense Laser Fields. , 2021, , .		0

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91	Theory of Attosecond Phenomena. The Review of Laser Engineering, 2008, 36, 25-30.	0.0	0
92	Assessment of Time-dependent Unrestricted Hartree-Fock Method for Electron Dynamics in Intense Laser Fields. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1297-1298.	0.1	0
93	Simulation of Intense Isolated Attosecond Pulse Generation with a Two-color Laser Field. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1265-1272.	0.1	0
94	Simulation of Multielectron Dynamics in Intense Laser Fields from the First Principles. The Review of Laser Engineering, 2016, 44, 784.	0.0	0
95	Gauge-Invariant Time-Dependent Configuration Interaction Singles Method for Molecular Strong Field Physics. , 2020, , .		0
96	Investigation of joint electron-nuclear dynamics in H2 using time-dependent multiconfiguration method. , 2020, , .		0
97	Gauge-Invariant Time-Dependent Configuration Interaction Singles Method for High-Order Harmonic Generation in Molecules. , 2020, , .		0
98	Semiclassical Simulation of Ultrafast Electron Dynamics in Bulk Metals under Intense Laser Fields. , 2022, , .		0