

# Kenichi L Ishikawa

## List of Publications by Year in descending order

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98  
papers

3,016  
citations

186209

28  
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161767

54  
g-index

98  
all docs

98  
docs citations

98  
times ranked

1927  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic real-space perspective of light-field-driven currents in graphene. <i>New Journal of Physics</i> , 2022, 24, 033051.	1.2	1
2	High harmonic generation from GaSe in a deep-UV range well above the bandgap. , 2022, 1, 1232.		5
3	Attosecond Optical and Ramsey-Type Interferometry by Postgeneration Splitting of Harmonic Pulse. <i>Ultrafast Science</i> , 2022, 2022, .	5.8	4
4	Semiclassical Simulation of Ultrafast Electron Dynamics in Bulk Metals under Intense Laser Fields. , 2022, , .		0
5	Detecting electron-phonon coupling during photoinduced phase transition. <i>Physical Review B</i> , 2021, 103, .	1.1	28
6	Asymmetric single-cycle control of valence electron motion in polar chemical bonds. <i>Optica</i> , 2021, 8, 382.	4.8	13
7	Interferometric extraction of photoionization-path amplitudes and phases from time-dependent multiconfiguration self-consistent-field simulations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 074001.	0.6	1
8	Atomic, molecular and optical physics applications of longitudinally coherent and narrow bandwidth Free-Electron Lasers. <i>Physics Reports</i> , 2021, 904, 1-59.	10.3	27
9	Attosecond optical and Ramsey-type interference. , 2021, , .		0
10	Vlasov Simulation of Electron Dynamics in Solids Under Intense Laser Fields. , 2021, , .		0
11	Time-dependent optimized coupled-cluster method for multielectron dynamics. IV. Approximate consideration of the triple excitation amplitudes. <i>Journal of Chemical Physics</i> , 2021, 154, 234104.	1.2	9
12	Semiclassical description of electron dynamics in extended systems under intense laser fields. <i>Physical Review B</i> , 2021, 104, .	1.1	3
13	Fully Automated Data Acquisition for Laser Production Cyber-Physical System. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-8.	1.9	7
14	Implementation of a time-dependent multiconfiguration self-consistent-field method for coupled electron-nuclear dynamics in diatomic molecules driven by intense laser pulses. <i>Physical Review A</i> , 2021, 104, .	1.0	9
15	Whole Three-Dimensional Dosimetry of Carbon Ion Beams with an MRI-Based Nanocomposite Fricke Gel Dosimeter Using Rapid T1 Mapping Method. <i>Gels</i> , 2021, 7, 233.	2.1	13
16	Resonance enhancement of harmonics in the vicinity of 32 nm spectral range during propagation of femtosecond pulses through the molybdenum plasma. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 195401.	0.6	12
17	Role of virtual band population for high harmonic generation in solids. <i>Physical Review B</i> , 2020, 102, .	1.1	28
18	Time-dependent optimized coupled-cluster method for multielectron dynamics. III. A second-order many-body perturbation approximation. <i>Journal of Chemical Physics</i> , 2020, 153, 034110.	1.2	15

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19	Study of laser-driven multielectron dynamics of Ne atom using time-dependent optimised second-order many-body perturbation theory. <i>Molecular Physics</i> , 2020, 118, e1813910.	0.8	9
20	Time-dependent optimized coupled-cluster method for multielectron dynamics. II. A coupled electron-pair approximation. <i>Journal of Chemical Physics</i> , 2020, 152, 124115.	1.2	25
21	New Method for Measuring Angle-Resolved Phases in Photoemission. <i>Physical Review X</i> , 2020, 10, .	2.8	23
22	Gauge-Invariant Time-Dependent Configuration Interaction Singles Method for Molecular Strong Field Physics. , 2020, , .		0
23	Investigation of joint electron-nuclear dynamics in H2 using time-dependent multiconfiguration method. , 2020, , .		0
24	Gauge-Invariant Time-Dependent Configuration Interaction Singles Method for High-Order Harmonic Generation in Molecules. , 2020, , .		0
25	Application of the time-dependent surface flux method to the time-dependent multiconfiguration self-consistent-field method. <i>Physical Review A</i> , 2019, 100, .	1.0	16
26	Comparison between quantum and classical calculations for above threshold ionization of argon. <i>European Physical Journal D</i> , 2019, 73, 1.	0.6	2
27	Time-dependent multiconfiguration self-consistent-field study on resonantly enhanced high-order harmonic generation from transition-metal elements. <i>Physical Review A</i> , 2019, 99, .	1.0	31
28	High-order harmonic generation from hybrid organicâ€“inorganic perovskite thin films. <i>APL Materials</i> , 2019, 7, .	2.2	49
29	High-order harmonic generation enhanced by laser-induced electron recollision. <i>Physical Review A</i> , 2019, 99, .	1.0	20
30	Implementation of a gauge-invariant time-dependent configuration-interaction-singles method for three-dimensional atoms. <i>Physical Review A</i> , 2019, 100, .	1.0	9
31	Complete Characterization of Phase and Amplitude of Bichromatic Extreme Ultraviolet Light. <i>Physical Review Letters</i> , 2019, 123, 213904.	2.9	21
32	Implementation of the infinite-range exterior complex scaling to the time-dependent complete-active-space self-consistent-field method. <i>Physical Review A</i> , 2018, 97, .	1.0	39
33	Polymer gel dosimeter with AQUAJOINT Â® as hydrogel matrix. <i>Radiation Physics and Chemistry</i> , 2018, 146, 121-125.	1.4	38
34	Communication: Time-dependent optimized coupled-cluster method for multielectron dynamics. <i>Journal of Chemical Physics</i> , 2018, 148, 051101.	1.2	74
35	Gauge invariance beyond the electric dipole approximation. <i>Physical Review A</i> , 2018, 98, .	1.0	10
36	Gauge-Invariant Formulation of Time-Dependent Configuration Interaction Singles Method. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 433.	1.3	14

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37	Time-dependent Hartree-Fock study of electron-hole interaction effects on high-order harmonic generation from periodic crystals. <i>Physical Review A</i> , 2018, 98, .	1.0	27
38	Polarization-Resolved Study of High Harmonics from Bulk Semiconductors. <i>Physical Review Letters</i> , 2018, 120, 243903.	2.9	78
39	Time-Dependent Complete-Active-Space Self-Consistent-Field Method for Ultrafast Intense Laser Science. <i>Springer Series in Chemical Physics</i> , 2018, , 143-171.	0.2	5
40	Organic-Gelatin-Free Nanocomposite Fricke Gel Dosimeter. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4238-4246.	1.2	30
41	High-harmonic spectra from time-dependent two-particle reduced-density-matrix theory. <i>Physical Review A</i> , 2017, 95, .	1.0	28
42	Tailoring extreme-ultraviolet light. <i>Nature Photonics</i> , 2017, 11, 209-210.	15.6	0
43	Trajectory analysis of high-order-harmonic generation from periodic crystals. <i>Physical Review A</i> , 2017, 95, .	1.0	106
44	High-Harmonic Generation Enhanced by Dynamical Electron Correlation. <i>Physical Review Letters</i> , 2017, 118, 203202.	2.9	28
45	A fully general time-dependent multiconfiguration self-consistent-field method for the electron-nuclear dynamics. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22008-22015.	1.3	16
46	Polarization property of high harmonics generated from crystalline semiconductors excited by mid-infrared pulses. , 2017, , .		0
47	Extended solid-state three-step model for high-harmonic generation from periodic crystals. , 2017, , .		0
48	Time-dependent complete-active-space self-consistent-field method for atoms: Application to high-order harmonic generation. <i>Physical Review A</i> , 2016, 94, .	1.0	73
49	Implementation of the multiconfiguration time-dependent Hartree-Fock method for general molecules on a multiresolution Cartesian grid. <i>Physical Review A</i> , 2016, 93, .	1.0	26
50	Radiological properties of nanocomposite Fricke gel dosimeters for heavy ion beams. <i>Journal of Radiation Research</i> , 2016, 57, 318-324.	0.8	32
51	Simulation of Multielectron Dynamics in Intense Laser Fields from the First Principles. <i>The Review of Laser Engineering</i> , 2016, 44, 784.	0.0	0
52	Propagating two-particle reduced density matrices without wave functions. <i>Physical Review A</i> , 2015, 91, .	1.0	38
53	Time-dependent multiconfiguration self-consistent-field method based on the occupation-restricted multiple-active-space model for multielectron dynamics in intense laser fields. <i>Physical Review A</i> , 2015, 91, .	1.0	74
54	A Review on Ab Initio Approaches for Multielectron Dynamics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015, , 1-1.	1.9	56

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55	Theoretical study of pulse delay effects in the photoelectron angular distribution of near-threshold EUV+IR two-photon ionization of atoms. <i>Physical Review A</i> , 2014, 90, .	1.0	4
56	Analysis of strong-field enhanced ionization of molecules using Bohmian trajectories. <i>Physical Review A</i> , 2014, 90, .	1.0	19
57	The structure of approximate two electron wavefunctions in intense laser driven ionization dynamics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 204031.	0.6	18
58	Electronic response of graphene to an ultrashort intense terahertz radiation pulse. <i>New Journal of Physics</i> , 2013, 15, 055021.	1.2	43
59	Time-dependent complete-active-space self-consistent-field method for multielectron dynamics in intense laser fields. <i>Physical Review A</i> , 2013, 88, .	1.0	159
60	Correlation-driven electron dynamics in attosecond photoionization of helium. , 2013, , .		0
61	Time-dependent complete active-space self-consistent field method for multielectron dynamics in intense laser fields. , 2013, , .		0
62	Analysis of strong-field enhanced ionization of molecules using Bohmian trajectories. , 2013, , .		0
63	Photoelectron Angular Distribution and Phase in Two-Photon Single Ionization of H and He by a Femtosecond and Attosecond Extreme-Ultraviolet Pulse. <i>Applied Sciences (Switzerland)</i> , 2013, 3, 189-213.	1.3	26
64	Competition of Resonant and Nonresonant Paths in Resonance-Enhanced Two-Photon Single Ionization of He by an Ultrashort Extreme-Ultraviolet Pulse. <i>Physical Review Letters</i> , 2012, 108, 033003.	2.9	63
65	Numerical Study on Platelet Adhesion to Vessel Walls using the Kinetic Monte Carlo Method. <i>Journal of Biomechanical Science and Engineering</i> , 2012, 7, 275-283.	0.1	9
66	Attosecond cascades and time delays in one-electron photoionization. <i>Physical Review A</i> , 2012, 86, .	1.0	25
67	Isolated Attosecond Pulse Generation by Direct Optimization of Two-Color Laser Fields Using the Genetic Algorithm. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2012, 132, 1278-1282.	0.1	2
68	Assessment of Time-dependent Unrestricted Hartree-Fock Method for Electron Dynamics in Intense Laser Fields. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2012, 132, 1297-1298.	0.1	0
69	Simulation of Intense Isolated Attosecond Pulse Generation with a Two-color Laser Field. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2012, 132, 1265-1272.	0.1	0
70	Attoclocks play devil's advocate. <i>Nature Physics</i> , 2011, 7, 371-372.	6.5	20
71	Diffraction at a time grating in above-threshold ionization: The influence of the Coulomb potential. <i>Physical Review A</i> , 2010, 82, .	1.0	63
72	Intracycle and intercycle interferences in above-threshold ionization: The time grating. <i>Physical Review A</i> , 2010, 81, .	1.0	153

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73	Two-photon ionization of atoms by ultrashort laser pulses. Journal of Modern Optics, 2010, 57, 999-1007.	0.6	10
74	Nonlinear optical response of graphene in time domain. Physical Review B, 2010, 82, .	1.1	219
75	Wavelength dependence of high-order harmonic generation with independently controlled ionization and ponderomotive energy. Physical Review A, 2009, 80, .	1.0	22
76	Coherent Water Window X Ray by Phase-Matched High-Order Harmonic Generation in Neutral Media. Physical Review Letters, 2008, 101, 253901.	2.9	325
77	Theory of Attosecond Phenomena. The Review of Laser Engineering, 2008, 36, 25-30.	0.0	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. Physical Review A, 2007, 75, .	1.0	31
81	Dramatic Enhancement of High-Order Harmonic Generation. Physical Review Letters, 2007, 99, 053904.	2.9	122
82	Single Attosecond Pulse Generation Using a Seed Harmonic Pulse Train. , 2007, , .		0
83	Single attosecond pulse generation using a seed harmonic pulse train. , 2007, , .		0
84	Dramatic enhancement of high-order harmonic generation in mixed gases. , 2007, , .		0
85	Design of Subwavelength Diffractive Optical Elements using Genetic Algorithm and FDTD Method. IEJ Transactions on Electronics, Information and Systems, 2007, 127, 1298-1303.	0.1	2
86	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 ETQq0 0.0rgBT /Overlock 1C		
87	Coherent control of stepwise and direct multiphoton ionization in the ultrashort pulse regime. , 2006, , .		0
88	Attosecond double- and triple-slit experiment. , 2006, , .		0
89	Temporal Young's interference experiment by attosecond double and triple soft-x-ray pulses. Physical Review A, 2006, 74, .	1.0	15
90	Multiphoton ionization of He by using intense high-order harmonics in the soft-x-ray region. Physical Review A, 2005, 71, .	1.0	159

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91	Above-threshold double ionization of helium with attosecond intense soft x-ray pulses. Physical Review A, 2005, 72, .	1.0	64
92	Efficient photoemission and ionization of He <sup>+</sup> by a combined fundamental laser and high-order harmonic pulse. Physical Review A, 2004, 70, .	1.0	31
93	Photoemission and Ionization of He <sup>+</sup> under Simultaneous Irradiation of Fundamental Laser and High-Order Harmonic Pulses. Physical Review Letters, 2003, 91, 043002.	2.9	158
94	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
95	Two-photon ionization of He <sup>+</sup> as a nonlinear optical effect in the soft-x-ray region. Physical Review A, 2002, 65, .	1.0	37
96	High-power regime of femtosecond-laser pulse propagation in silica: Multiple-cone formation. Physical Review E, 2002, 66, 056608.	0.8	24
97	Particle-in-cell simulations of multiple ionization of small molecules in a strong laser field. Physical Review A, 2000, 61, .	1.0	7
98	Pressure ionization of dense plasmas in spherical ion-cell model with spin-orbit interactions. AIP Conference Proceedings, 1996, , .	0.3	0