Hirohiko Kono

List of Publications by Year
in descending order

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42	846	516710	477307
papers	citations	16	29
		h-index	g-index

43	43	43	844
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adiabatic and diabatic responses of H2+ to an intense femtosecond laser pulse: Dynamics of the electronic and nuclear wave packet. Journal of Chemical Physics, 1999, 110, 11152-11165.	3.0	131
2	Description of Molecular Dynamics in Intense Laser Fields by the Time-Dependent Adiabatic State Approach:Â Application to Simultaneous Two-Bond Dissociation of CO2and Its Control. Journal of the American Chemical Society, 2003, 125, 8019-8031.	13.7	82
3	Intense-laser-field-enhanced ionization of two-electron molecules: Role of ionic states as doorway states. Physical Review A, 2000, 62, .	2.5	74
4	Exact two-electron wave packet dynamics of H2 in an intense laser field: Formation of localized ionic states H+Hâ˜. Journal of Chemical Physics, 2000, 113, 8953-8960.	3.0	73
5	Theoretical studies on a carbonaceous molecular bearing: association thermodynamics and dual-mode rolling dynamics. Chemical Science, 2015, 6, 2746-2753.	7.4	56
6	Dual transformation for wave packet dynamics: Application to Coulomb systems. Journal of Chemical Physics, 1999, 111, 9498-9508.	3.0	41
7	Stark Spectroscopy of Absorption and Emission of Indoline Sensitizers: A Correlation with the Performance of Photovoltaic Cells. Journal of Physical Chemistry C, 2016, 120, 26206-26216.	3.1	26
8	Selective bond breaking of CO2 in phase-locked two-color intense laser fields: laser field intensity dependence. Physical Chemistry Chemical Physics, 2017, 19, 3550-3556.	2.8	26
9	Theoretical Investigation of the Structures and Dynamics of Crystalline Molecular Gyroscopes. Journal of Physical Chemistry C, 2012, 116, 24845-24854.	3.1	24
10	Diffractive Imaging of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">C</mml:mi></mml:mrow><mml:mrow><mml:mn>60</mml:mn></mml:mrow></mml:msub></mml:mrow></mm Structural Deformations Induced by Intense Femtosecond Midinfrared Laser Fields. Physical Review Letters, 2019, 122, 053002.	7.8	21
11	Unbiased Rotational Motions of an Ellipsoidal Guest in a Tight Yet Pliable Host. Angewandte Chemie - International Edition, 2019, 58, 2040-2044.	13.8	21
12	Ab initio molecular dynamics and wavepacket dynamics of highly charged fullerene cations produced with intense near-infrared laser pulses. Chemical Physics, 2007, 338, 127-134.	1.9	20
13	Ab initio quantum dynamical analysis of ultrafast nonradiative transitions via conical intersections in pyrazine. Physical Chemistry Chemical Physics, 2015, 17, 2012-2014.	2.8	20
14	Real-time observation of X-ray-induced intramolecular and interatomic electronic decay in CH2I2. Nature Communications, 2019, 10, 2186.	12.8	19
15	Reply to the â€˜Comment on â€œTheoretical studies on a carbonaceous molecular bearing: association thermodynamics and dual-mode rolling dynamicsâ€â€™ by E. M. Cabaleiro-Lago, J. Rodriguez-Otero and A. Gil, Chem. Sci., 2016, 7, DOI: 10.1039/C5SC04676A. Chemical Science, 2016, 7, 2929-2932.	7.4	17
16	A crystalline molecular gyrotop with a biphenylene dirotor and its temperature-dependent birefringence. CrystEngComm, 2017, 19, 6049-6056.	2.6	17
17	Characterization of multielectron dynamics in molecules: A multiconfiguration time-dependent Hartree-Fock picture. Journal of Chemical Physics, 2014, 141, 114105.	3.0	16
18	Modulation of Energy Conversion Processes in Carbonaceous Molecular Bearings. Chemistry - an Asian Journal, 2015, 10, 2404-2410.	3.3	15

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19	Nanosecond simulations of the dynamics of C60 excited by intense near-infrared laser pulses: Impulsive Raman excitation, rearrangement, and fragmentation. Journal of Chemical Physics, 2012, 136, 164304.	3.0	14
20	Mechanism and Experimental Observability of Global Switching Between Reactive and Nonreactive Coordinates at High Total Energies. Physical Review Letters, 2015, 115, 093003.	7.8	12
21	Laser-Control of Ultrafast Ï€-Electron Ring Currents in Aromatic Molecules: Roles of Molecular Symmetry and Light Polarization. Applied Sciences (Switzerland), 2018, 8, 2347.	2.5	11
22	Time-Dependent Multiconfiguration Theory and Its Application to Ultrafast Electronic Dynamics of Molecules in an Intense Laser Field. Progress of Theoretical Physics Supplement, 2012, 196, 16-38.	0.1	10
23	Communication: Two-step explosion processes of highly charged fullerene cations C60q+ (q = 20â€“60). Journal of Chemical Physics, 2014, 141, 121105.	3.0	10
24	An efficient approximate algorithm for nonadiabatic molecular dynamics. Journal of Chemical Physics, 2018, 149, 244117.	3.0	10
25	Ultrafast nonradiative transition pathways in photo-excited pyrazine: Ab initio analysis of time-resolved vacuum ultraviolet photoelectron spectrum. Chemical Physics, 2018, 515, 704-709.	1.9	10
26	Spin-orbit coupling effects in dihydrides of third-row transition elements. II. Interplay of nonadiabatic coupling in the dissociation path of rhenium dihydride. Journal of Chemical Physics, 2009, 131, 044122.	3.0	9
27	MOLECULES IN INTENSE LASER FIELDS: NONLINEAR MULTIPHOTON SPECTROSCOPY AND NEAR-FEMTOSECOND TO SUB-FEMTOSECOND (ATTOSECOND) DYNAMICS. Advances in Multi-photon Processes and Spectroscopy, 2003, , 149-214.	0.6	9
28	Visible photodissociation of the CO₂ dimer cation: fast and slow dissociation dynamics in the excited state. Physical Chemistry Chemical Physics, 2019, 21, 3083-3091.	2.8	7
29	Analysis of the multielectron dynamics in intense laser-induced ionization of CO by the time-dependent effective potentials for natural orbitals. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 184001.	1.5	7
30	Pulse shape and molecular orientation determine the attosecond charge migration in Caffeine. European Physical Journal B, 2018, 91, 1.	1.5	6
31	Automatic spatial extension of a time-dependent wavefunction expanded in terms of Gaussians: Application to multidimensional tunneling. Chemical Physics Letters, 2018, 708, 170-176.	2.6	6
32	Identification of an ultrafast internal conversion pathway of pyrazine by time-resolved vacuum ultraviolet photoelectron spectrum simulations. Journal of Chemical Physics, 2021, 154, 224304.	3.0	5
33	Intense-Laser-Induced Electron Transfer and Structure Deformation of Molecules. ACS Symposium Series, 2002, , 267-284.	0.5	4
34	Magnetism-tuning strategies for graphene oxide based on magnetic oligoacene oxide patches model. Physical Chemistry Chemical Physics, 2018, 20, 3678-3686.	2.8	4
35	Capturing the photo-induced dynamics of nano-molecules by X-ray free electron laser induced Coulomb explosion. Journal of Chemical Physics, 2019, 151, 124305.	3.0	4
36	Direct and precise mapping of intramolecular H-atom motion in <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 electron-atom Compton scattering experiment. Physical Review A, 2022, 105, .	2.5	3

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37	A fast and robust trajectory surface hopping method: Application to the intermolecular photodissociation of a carbon dioxide dimer cation (CO2)2+. Journal of Chemical Physics, 2021, 154, 164108.	3.0	2
38	ELECTRONIC DYNAMICS AND STRUCTURE OF MOLECULES IN INTENSE LASER FIELDS. , 2000, , .		2
39	Molecular Orbital Analysis of High Harmonic Generation. , 2014, , .		1
40	Single-active-electron analysis of laser-polarization effects on atomic/molecular multiphoton excitation. Journal of Chemical Physics, 2017, 147, 154310.	3.0	0
41	Theoretical Investigation of Ultrafast Dynamics of Molecules in Intense Laser Fields. The Review of Laser Engineering, 2007, 35, 691-696.	0.0	0
42	Electronic Dynamics of Atoms and Molecules in Intense Ultrashort Laser Pulses.. The Review of Laser Engineering, 1999, 27, 324-330.	0.0	0