Yuichi Fujimura

List of Publications by Year
in descending order

79 papers	1,535 citations	346980 22 h-index	371746 37 g-index
80 all docs	80 docs citations	80 times ranked	788 citing authors

#	Article	IF	Citations
1	Theoretical Study of Dynamic Stark-Induced Ï€-Electron Rotations in Low-Symmetry Aromatic Ring Molecules beyond the Frozen Nuclear Approximation. Journal of Physical Chemistry A, 2021, 125, 1476-1489.	1.1	3
2	Quantum Control of Coherent Ï€-Electron Dynamics in Aromatic Ring Molecules. Frontiers in Physics, 2021, 9, .	1.0	0
3	Theoretical Design of Blue-Color Phosphorescent Complexes for Organic Light-Emitting Diodes: Emission Intensities and Nonradiative Transition Rate Constants in Ir(ppy)₂(acac) Derivatives. Journal of Physical Chemistry A, 2021, 125, 10604-10614.	1.1	0
4	On the validity of the independent interaction model for generation of dynamic Stark-induced degenerate states in chiral aromatic ring molecules. Chemical Physics Letters, 2020, 741, 137124.	1.2	2
5	Dynamic Stark-Induced Coherent Ï€-Electron Rotations in a Chiral Aromatic Ring Molecule: Application to Phenylalanine. Journal of Physical Chemistry A, 2019, 123, 6399-6410.	1.1	4
6	Laser-Control of Ultrafast Ï€-Electron Ring Currents in Aromatic Molecules: Roles of Molecular Symmetry and Light Polarization. Applied Sciences (Switzerland), 2018, 8, 2347.	1.3	11
7	Quantum Design for Ultrafast Probing of Molecular Chirality through Enantiomer-Specific Coherent Ï€-Electron Angular Momentum. Journal of Physical Chemistry Letters, 2018, 9, 5521-5526.	2.1	5
8	Quantum Design of Ï€-Electron Ring Currents in Polycyclic Aromatic Hydrocarbons: Parallel and Antiparallel Ring Currents in Naphthalene. Journal of Physical Chemistry Letters, 2017, 8, 2019-2025.	2.1	15
9	Laser manipulation of localised Ï€-electron rotations in a molecule with two aromatic rings. Molecular Physics, 2017, 115, 1880-1888.	0.8	5
10	Quantum control of coherent Ï€-electron ring currents in polycyclic aromatic hydrocarbons. Journal of Chemical Physics, 2017, 147, 224301.	1.2	10
11	Induction of unidirectional Ï€-electron rotations in low-symmetry aromatic ring molecules using two linearly polarized stationary lasers. Physical Chemistry Chemical Physics, 2016, 18, 26786-26795.	1.3	14
12	Quantum Control of Coherent Ïâ€Electron Dynamics in Chiral Aromatic Molecules. Journal of the Chinese Chemical Society, 2016, 63, 87-92.	0.8	12
13	The generation of stationary Ï€-electron rotations in chiral aromatic ring molecules possessing non-degenerate excited states. Physical Chemistry Chemical Physics, 2016, 18, 1570-1577.	1.3	15
14	Quantum-mechanical approach to predissociation of water dimers in the vibrational adiabatic representation: Importance of channel interactions. Journal of Chemical Physics, 2015, 143, 084303.	1.2	0
15	Quantum Localization of Coherent Ï€-Electron Angular Momentum in (P)-2,2â€²-Biphenol. Journal of Physical Chemistry Letters, 2014, 5, 2044-2049.	2.1	14
16	Theory and Applications of Sumâ€Frequency Generations. Journal of the Chinese Chemical Society, 2014, 61, 77-92.	0.8	10
17	Vibrational effects on UV/Vis laser-driven Ï€-electron ring currents in aromatic ring molecules. Chemical Physics, 2014, 442, 103-110.	0.9	38
18	Quantum chemical calculation of intramolecular vibrational redistribution and vibrational energy transfer of water clusters. Chemical Physics Letters, 2013, 586, 153-158.	1.2	10

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19	Quantum Chemical Calculations of Intramolecular Vibrational Redistribution and Energy Transfer of Dipeptides (GlyTyr and LeuTyr) and Applications to the RRKM Theory. Journal of the Chinese Chemical Society, 2013, 60, 974-985.	0.8	4
20	Coherent Ï€-electron dynamics of (P)-2,2â€²-biphenol induced by ultrashort linearly polarized UV pulses: Angular momentum and ring current. Journal of Chemical Physics, 2013, 138, 074304.	1.2	37
21	Non-Markovian response of ultrafast coherent electronic ring currents in chiral aromatic molecules in a condensed phase. Journal of Chemical Physics, 2013, 139, 214306.	1.2	18
22	Laser-Polarization Effects on Coherent Vibronic Excitation of Molecules with Quasi-Degenerate Electronic States. Journal of Physical Chemistry A, 2012, 116, 11260-11272.	1.1	21
23	Quantum Switching of Ï€-Electron Rotations in a Nonplanar Chiral Molecule by Using Linearly Polarized UV Laser Pulses. Journal of the American Chemical Society, 2012, 134, 14279-14282.	6.6	37
24	Density matrix method and ultrafast processes. Science China Chemistry, 2012, 55, 579-593.	4.2	0
25	Ultrafast coherent dynamics of nonadiabatically coupled quasi-degenerate excited states in molecules: Population and vibrational coherence transfers. Chemical Physics, 2012, 392, 136-142.	0.9	11
26	Density Functional Theory Study of Conformation-Dependent Properties of Neutral and Radical Cationic <scp>l</scp>-Tyrosine and <scp>l</scp>-Tryptophan. Journal of Physical Chemistry A, 2011, 115, 9658-9668.	1.1	21
27	Control of Ï€-Electron Rotations in Chiral Aromatic Molecules Using Intense Laser Pulses. Springer Series in Chemical Physics, 2011, , 53-78.	0.2	9
28	Nonadiabatic Response Model of Laser-Induced Ultrafast<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï€</mml:mi></mml:math>-Electron Rotations in Chiral Aromatic Molecules. Physical Review Letters, 2010, 104, 108302.	2.9	60
29	Investigation of Conformation-Dependent Properties of l-Phenylalanine in Neutral and Radical Cations by Using a Density Functional Taking into Account Noncovalent Interactions. Journal of Physical Chemistry A, 2010, 114, 7583-7589.	1.1	15
30	Substituent effects on conformational preference in Î±â€substituted Î±â€fluorophenylacetic acid methyl ester model systems for chiral derivatizing agents. Journal of Physical Organic Chemistry, 2009, 22, 903-912.	0.9	1
31	Ionization of and H 2 + in intense laser fields: Excited state dynamics. Laser Physics, 2009, 19, 1712-1722.	0.6	13
32	Control of Molecular Chirality by Lasers. Advances in Multi-photon Processes and Spectroscopy, 2008, , 245-290.	0.6	0
33	Quantum optimal control of electron ring currents in chiral aromatic molecules. Journal of Chemical Physics, 2007, 127, 204314.	1.2	48
34	A Theoretical Study of Origins of Resonance Raman and Resonance Fluorescence Using a Split-Up of the Emission Correlation Function. Advances in Chemical Physics, 2007, , 403-462.	0.3	6
35	Control of Ï€-Electron Rotation in Chiral Aromatic Molecules by Nonhelical Laser Pulses. Angewandte Chemie - International Edition, 2006, 45, 7995-7998.	7.2	69
36	QUANTUM CONTROL OF PHOTOCHEMICAL REACTION DYNAMICS AND MOLECULAR FUNCTIONS. , 2006, , .		0

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37	Dual transformation for non-Born-Oppenheimer time-dependent density functional theory. International Journal of Quantum Chemistry, 2003, 91, 105-112.	1.0	6
38	Adiabatic theory of infrared laser-induced predesorption of CO from a NaCl (100) surface. Physical Chemistry Chemical Physics, 2003, 5, 528-537.	1.3	2
39	Mechanism of unidirectional motions of chiral molecular motors driven by linearly polarized pulses. Journal of Chemical Physics, 2003, 119, 12393-12398.	1.2	25
40	Coherent Control of Chemical Reactions. , 2003, , 207-231.		3
41	Quantum control of molecular handedness in a randomly oriented racemic mixture using three polarization components of electric fields. Journal of Chemical Physics, 2002, 116, 8799-8802.	1.2	55
42	Quantum optimal control of unbounded molecular dynamics: Application to NaI predissociation. Journal of Chemical Physics, 2002, 117, 6429-6438.	1.2	23
43	Theory of stimulated Raman adiabatic passage in a degenerated reaction system: Application to control of molecular handedness. Journal of Chemical Physics, 2002, 116, 7509-7517.	1.2	31
44	Laser Control of Selective Preparation of Preoriented Enantiomers from Their Racemate. ACS Symposium Series, 2002, , 32-46.	0.5	1
45	Control of molecular handedness using pump-dump laser pulses. Journal of Chemical Physics, 2002, 116, 2433-2438.	1.2	43
46	Locally designed pulse shaping for selective preparation of enantiomers from their racemate. Journal of Chemical Physics, 2001, 114, 1575-1581.	1.2	49
47	From a Racemate to a Pure Enantiomer by Laser Pulses: Quantum Model Simulations for H2POSH. Angewandte Chemie - International Edition, 2000, 39, 4586-4588.	7.2	48
48	Effects of laser pulsewidth on higher-order harmonic generation in the barrier-suppression-ionization intensity regime. Applied Physics B: Lasers and Optics, 2000, 70, 219-224.	1.1	5
49	Quantum control of chemical reaction dynamics in a classical way. Journal of Chemical Physics, 2000, 113, 3510-3518.	1.2	26
50	Intense-laser-field-enhanced ionization of two-electron molecules: Role of ionic states as doorway states. Physical Review A, 2000, 62, .	1.0	74
51	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.	1.2	73
52	Quantum Control of Molecular Dynamics. Advances in Multi-photon Processes and Spectroscopy, 2000, , 1-127.	0.6	5
53	QUANTUM CONTROL OF ISOMERIZATION AND ENANTIOMER PREPARATION. , 2000, , .		0
54	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.	1.2	131

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55	Benzannelation Effect on Enediyne Cycloaromatization:Â An ab Initio Molecular Orbital Study. Journal of Physical Chemistry A, 1999, 103, 7672-7675.	1.1	53
56	Electronic Dynamics of Atoms and Molecules in Intense Ultrashort Laser Pulses.. The Review of Laser Engineering, 1999, 27, 324-330.	0.0	0
57	Quantum Control of Chemical Reaction Dynamics by Pulse-Shaping. Theoretical Treatments.. The Review of Laser Engineering, 1999, 27, 393-398.	0.0	0
58	Theoretical study of bathâ€induced coherence transfer effects on a timeâ€and frequencyâ€resolved resonant light scattering spectrum. II. Energy mismatch effects. Journal of Chemical Physics, 1996, 104, 8321-8331.	1.2	6
59	Nuclear Wavepacket Study on Unimolecular Reactions of Hydrogen Cyanide Excited by Femtosecond Pulsed Lasers. Journal of the Chinese Chemical Society, 1995, 42, 353-358.	0.8	3
60	A nuclear wavepacket study of unimolecular reactions in ultrashort pulsed lasers. Journal of Chemical Sciences, 1995, 107, 851-862.	0.7	0
61	Control of quantum dynamics by a locally optimized laser field. Application to ring puckering isomerization. Journal of Chemical Physics, 1994, 100, 5646-5655.	1.2	103
62	Control of a quantum dynamics by a locally optimized laser field. II. Application to a system with dissipation. Journal of Chemical Physics, 1994, 101, 6586-6592.	1.2	32
63	MECHANISM OF TIME-RESOLVED SECOND HARMONIC GENERATION FROM MOLECULES AT INTERFACE. Analytical Sciences, 1991, 7, 1481-1484.	0.8	1
64	Theory of multiphoton processes by the Fourierâ€expansion density matrix method. Journal of Chemical Physics, 1990, 92, 2910-2916.	1.2	3
65	Renormalization effects of bathâ€induced vibronic population transfer on stationary and timeâ€resolved resonant light scattering spectra from molecules. Journal of Chemical Physics, 1990, 93, 126-135.	1.2	2
66	Bathâ€induced vibronic coherence transfer effects on femtosecond timeâ€resolved resonant light scattering spectra from molecules. Journal of Chemical Physics, 1989, 91, 3903-3915.	1.2	45
67	Theory of resonance secondary emission in femtosecond laser excitation: On the connection with wave packet dynamics. Journal of Chemical Physics, 1989, 91, 5960-5973.	1.2	23
68	Theory of timeâ€resolved coherent antiâ€Stokes Raman scattering from molecules in liquids. Effects of coherence transfer. Journal of Chemical Physics, 1988, 89, 34-41.	1.2	23
69	Theory of coherent polarization anisotropy in timeâ€resolved twoâ€photon ionization of isolated molecules. Effects of Coriolis couplings. Journal of Chemical Physics, 1987, 87, 3418-3428.	1.2	2
70	Application of the indirect dephasing model to resonance and dispersed fluorescence in the isolated molecular complex. Journal of Chemical Physics, 1987, 86, 2510-2517.	1.2	5
71	Theory of vibrational predissociation of van der Waals complex in the adiabatic approximation model. Journal of Chemical Physics, 1986, 85, 7106-7116.	1.2	11
72	THEORY OF MOLECULAR MULTIPHOTON TRANSITIONS. Advances in Multi-photon Processes and Spectroscopy, 1986, , 1-77.	0.6	2

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73	Fluorescence lifetimes of single vibrational levels in HSO (Aìfâ€‰2Aâ€²). Journal of Chemical Physics, 1983, 78, 7146-7152.	1.2	19
74	A theoretical study of resonance Raman scattering from molecules: High pressure effect. Proceedings of the National Academy of Sciences of the United States of America, 1980, 77, 5032-5035.	3.3	9
75	Field correlation effects on the resonant light scattering. International Journal of Quantum Chemistry, 1980, 18, 293-300.	1.0	2
76	Theory of nonradiative decays in the nonâ€Condon scheme. Journal of Chemical Physics, 1977, 66, 199-206.	1.2	15
77	Mechanisms of intersystem crossing in aromatic hydrocarbons. Journal of Chemical Physics, 1977, 66, 3530-3537.	1.2	16
78	The Role of the Promoting Mode in Nonradiative Transitions in Large Molecules. Bulletin of the Chemical Society of Japan, 1975, 48, 1186-1190.	2.0	3
79	Coherent Ring Currents in Chiral Aromatic Molecules Induced by Linearly Polarized UV Laser Pulses. Key Engineering Materials, 0, 543, 381-384.	0.4	2