

# Tomoyuki Yatsuhashi

## List of Publications by Year in descending order

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86  
papers

1,572  
citations

279798

23  
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92  
docs citations

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times ranked

1069  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Mechanism of Radiationless Deactivation of Aminoanthraquinones through Intermolecular Hydrogen-Bonding Interaction with Alcohols and Hydroperoxides. <i>Journal of Physical Chemistry A</i> , 1997, 101, 8166-8173.	2.5	94
2	A key factor in parent and fragment ion formation on irradiation with an intense femtosecond laser pulse. <i>Chemical Physics Letters</i> , 2001, 342, 563-570.	2.6	94
3	Radiationless Deactivation of an Intramolecular Charge Transfer Excited State through Hydrogen Bonding: A Effect of Molecular Structure and Hardâ€™Soft Anionic Character in the Excited State. <i>Journal of Physical Chemistry A</i> , 2001, 105, 10488-10496.	2.5	80
4	Multiple ionization and Coulomb explosion of molecules, molecular complexes, clusters and solid surfaces. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2018, 34, 52-84.	11.6	63
5	Large molecules in high-intensity laser fields. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2000, 1, 131-143.	11.6	60
6	Photophysical Properties of Intramolecular Charge-Transfer Excited Singlet State of Aminofluorenone Derivatives. <i>Journal of Physical Chemistry A</i> , 1998, 102, 3018-3024.	2.5	59
7	Ionization and Fragmentation of Some Chlorinated Compounds and Dibenzo-p-dioxin with an Intense Femtosecond Laser Pulse at 800 nm. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6580-6586.	2.5	59
8	Molecular Mechanism for the Radiationless Deactivation of the Intramolecular Charge-Transfer Excited Singlet State of Aminofluorenes through Hydrogen Bonds with Alcohols. <i>Journal of Physical Chemistry A</i> , 1998, 102, 8657-8663.	2.5	56
9	Ionization and fragmentation of anthracene with an intense femtosecond laser pulse at 1.4 $\hat{1}$ / <sub>4</sub> m. <i>Chemical Physics Letters</i> , 2005, 403, 238-241.	2.6	52
10	The role of intersystem crossing in the deactivation of the singlet excited aminofluorenes. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 980-985.	2.8	44
11	Coulomb explosion of benzene induced by an intense laser field. <i>Journal of Chemical Physics</i> , 2002, 117, 3180-3189.	3.0	43
12	Radiationless Deactivation Process of 1-Dimethylamino-9-fluorenone Induced by Conformational Relaxation in the Excited State: A New Model Molecule for the TICT Process. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10089-10095.	2.5	39
13	Ultrafast relaxation and coherent oscillations in aminobenzonitriles in the gas phase probed by intense-field ionization. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1151-1169.	2.8	38
14	Coherent oscillations in the charge-transfer system 4-dimethylamino-benzonitrile. <i>Chemical Physics Letters</i> , 2003, 376, 282-291.	2.6	37
15	Effects of Polarization of 1.4 $\hat{1}$ / <sub>4</sub> m Femtosecond Laser Pulses on the Formation and Fragmentation of Naphthalene Molecular Ions Compared at the Same Effective Ionization Intensity. <i>Journal of Physical Chemistry A</i> , 2005, 109, 9414-9418.	2.5	34
16	Femtosecond Laser Ionization of Organic Amines with Very Low Ionization Potentials: A Relatively Small Suppressed Ionization Features. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7763-7771.	2.5	32
17	Metal ion reductions by femtosecond laser pulses with micro-Joule energy and their efficiencies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 319-320, 70-77.	3.9	30
18	Enhancement of anthracene fragmentation by circularly polarized intense femtosecond laser pulse. <i>Journal of Chemical Physics</i> , 2007, 126, 104304.	3.0	29

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19	Molecular Mechanism of the Intermolecular Hydrogen Bond between 2-Piperidinoanthraquinone and Alcohol in the Excited State: A Direct Observation of the Out-of-Plane Mode Interaction with Alcohol by Transient Absorption Studies. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8840-8849.	2.5	26
20	Intact molecular ion formation of cyclohexane and 2,3-dimethyl-1,3-butadiene by excitation with a short, intense femtosecond laser pulse. <i>Chemical Physics Letters</i> , 2006, 427, 255-258.	2.6	26
21	Synthesis of Fluorine-Doped Hydrophilic Carbon Nanoparticles from Hexafluorobenzene by Femtosecond Laser Pulses. <i>ChemPhysChem</i> , 2017, 18, 1007-1011.	2.1	26
22	Ultrafast charge transfer and coherent oscillations in 4-piperidino-benzonitrile. <i>Chemical Physics</i> , 2004, 296, 1-12.	1.9	25
23	Formation and Fragmentation of Quadruply Charged Molecular Ions by Intense Femtosecond Laser Pulses. <i>Journal of Physical Chemistry A</i> , 2010, 114, 7445-7452.	2.5	25
24	Atomlike ionization and fragmentation of a series of CH <sub>3</sub> X (X: H, F, Cl, Br, I, and CN) by an intense femtosecond laser. <i>Journal of Chemical Physics</i> , 2007, 127, 104314.	3.0	22
25	Reduction of Sm <sup>3+</sup> to Sm <sup>2+</sup> by an Intense Femtosecond Laser Pulse in Solution. <i>Journal of Physical Chemistry A</i> , 2010, 114, 5648-5654.	2.5	21
26	Novel Method of Producing Carbon Nanoparticles on Benzene/Water Interface with Femtosecond Laser Plasma Filament. <i>Chemistry Letters</i> , 2012, 41, 722-724.	1.3	20
27	Reduction of Eu <sup>3+</sup> to Eu <sup>2+</sup> by an intense femtosecond laser pulse in solution. <i>Chemical Physics Letters</i> , 2008, 465, 238-240.	2.6	19
28	Anisotropic Coulomb explosion of acetylene and diacetylene derivatives. <i>International Journal of Mass Spectrometry</i> , 2016, 403, 43-52.	1.5	19
29	Synthesis of Single-Nanometer-Sized Gold Nanoparticles in Liquid-Liquid Dispersion System by Femtosecond Laser Irradiation. <i>Langmuir</i> , 2019, 35, 12123-12129.	3.5	18
30	Coulomb explosion of hexa-fluorobenzene induced by an intense laser field. <i>Chemical Physics Letters</i> , 2005, 404, 379-383.	2.6	17
31	Anisotropic bulletlike emission of terminal ethynyl fragment ions: Ionization of ethynylbenzene-d under intense femtosecond laser fields. <i>Journal of Chemical Physics</i> , 2007, 126, 194316.	3.0	17
32	Synthesis of Hydrophilic and Hydrophobic Carbon Nanoparticles from Benzene/Water Bilayer Solution with Femtosecond Laser Generated Plasma Filaments in Water. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 251-261.	3.2	17
33	Hot Molecule as an Intermediate in Multiphoton Reaction: Two-Photon Decarbonylation of Coumarin. <i>Journal of Physical Chemistry A</i> , 2000, 104, 1095-1099.	2.5	16
34	VUV Laser Chemistry—Formation of Hot Molecules and Their Reactions in the Gas Phase—. <i>Bulletin of the Chemical Society of Japan</i> , 2001, 74, 579-593.	3.2	16
35	Persistence of Iodines and Deformation of Molecular Structure in Highly Charged Diiodoacetylene: Anisotropic Carbon Ion Emission. <i>ChemPhysChem</i> , 2011, 12, 122-126.	2.1	16
36	Ionization and Fragmentation of Alkylphenols by 0.8–1.5 μm Femtosecond Laser Pulses. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12056-12062.	2.5	15

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37	Dissociation and Multiply Charged Silicon Ejection in High Abundance from Hexamethyldisilane. Journal of Physical Chemistry A, 2010, 114, 11890-11895.	2.5	14
38	Steady-State and Time-Resolved Fluorescence Analysis for a Cyanobiphenyl Mesogen in Polymer-Dispersed Liquid Crystal Films. Journal of Physical Chemistry B, 2000, 104, 2642-2646.	2.6	13
39	Synthesis of Bare Iron Nanoparticles from Ferrocene Hexane Solution by Femtosecond Laser Pulses. ChemPhysChem, 2018, 19, 2480-2485.	2.1	13
40	EuO Nanocrystal Formation under ArF Laser Irradiation. Chemistry Letters, 2003, 32, 708-709.	1.3	12
41	Coulomb Explosion of Dichloroethene Geometric Isomers at 1 PW cm <sup>-2</sup> . Journal of Physical Chemistry A, 2013, 117, 1393-1399.	2.5	12
42	Anisotropic Coulomb Explosion of CO Ligands in Group 6 Metal Hexacarbonyls: Cr(CO) <sub>6</sub> , Mo(CO) <sub>6</sub> , W(CO) <sub>6</sub> . Journal of Physical Chemistry A, 2016, 120, 6917-6928.	2.5	12
43	Intact Four-Atom Organic Tetracation Stabilized by Charge Localization in the Gas Phase. ChemPhysChem, 2016, 17, 2977-2981.	2.1	11
44	Ultrafast temporary charge transfer in pyrrolidinylbenzonitrile and pyrrolylbenzonitrile in the gas phase. Faraday Discussions, 2004, 127, 23-33.	3.2	10
45	Linear Response of Multiphoton Reaction: Three-Photon Cycloreversion of Anthracene Biplanemer in Solution by Intense Femtosecond Laser Pulses. Journal of Physical Chemistry A, 2010, 114, 10475-10480.	2.5	10
46	Reduction of Yb(III) to Yb(II) by Two-Color Two-Photon Excitation. Journal of Physical Chemistry A, 2013, 117, 8352-8359.	2.5	9
47	Multiple strong field ionization of metallocenes: Applicability of ADK rates to the production of multiply charged transition metal (Cr, Fe, Ni, Ru, Os) cations. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 369, 16-24.	3.9	9
48	Decomposition of Gaseous Phthalic Anhydride from a Vibrationally Hot Molecule Formed by ArF Laser Irradiation. Journal of Physical Chemistry A, 2000, 104, 203-208.	2.5	8
49	Explosive Desorption and Fragmentation of Molecular Ion from Solid Fullerene by Intense Nonresonant Femtosecond Laser Pulses. Journal of Physical Chemistry A, 2008, 112, 5781-5785.	2.5	8
50	High-Order Multiphoton Fluorescence of Organic Molecules in Solution by Intense Femtosecond Laser Pulses. Journal of the American Chemical Society, 2008, 130, 15264-15265.	13.7	8
51	Selection of a Single Isotope of Multiply Charged Xenon ( <sup>A</sup> Xe <sup>z+</sup> ), Tj ETQq1 1 0.784314 rgBT 2007-2011.	2.1	8
52	IONIZATION AND FRAGMENTATION OF SOME ORGANIC MOLECULES WITH INTENSE FEMTOSECOND LASER PULSES. Advances in Multi-photon Processes and Spectroscopy, 2006, , 179-219.	0.6	8
53	A Hot Molecule as an Intermediate in Multiphoton Reactions: First Photoinduced Reactions of Biphenylene. Journal of the American Chemical Society, 2001, 123, 10137-10138.	13.7	7
54	Xylylene Formation from Vibrationally Hot Cyclophanes: Specific Dissociation Rate Constants of Strained Molecules. Journal of Physical Chemistry A, 2002, 106, 2014-2019.	2.5	6

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55	Detection of Dioxins by Femtosecond Laser Ionization Mass Spectrometry. <i>Bunseki Kagaku</i> , 2005, 54, 127-134.	0.2	6
56	Fez+ (z = 1-6) generation from ferrocene. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4234.	2.8	6
57	Precipitation of dichloromethane as low-chlorine carbon nanoparticles from water by femtosecond laser pulses. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 344, 178-183.	3.9	6
58	The Smallest Aromatic Tetracation Produced in Gas Phase by Intense Femtosecond Laser Pulses. <i>Chemistry Letters</i> , 2019, 48, 1472-1475.	1.3	6
59	Definitive production of intact organic pentacation radical: Octafluoronaphthalene ionized in intense femtosecond laser fields. <i>Chemical Physics</i> , 2019, 526, 110465.	1.9	6
60	Pulse Duration Dependence of Femtosecond Ionization and Fragmentation of an Organic Molecule. <i>The Review of Laser Engineering</i> , 2004, 32, 717-721.	0.0	6
61	Vacuum-UV Three-Photon Chemical Reaction via Vibrationally Hot Molecules: A Decomposition of Triphenylmethane. <i>Journal of Physical Chemistry A</i> , 2000, 104, 10645-10647.	2.5	5
62	Formation of 1,3-hexadiene-5-yne by two-photon chemistry of benzene via hot molecule. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 171, 223-229.	3.9	5
63	Ionization of Anthracene Followed by Fusion in the Solid Phase under Intense Nonresonant Femtosecond Laser Fields. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11458-11463.	3.1	5
64	Effects of Ligand and Solvent on the Synthesis of Iron Oxide Nanoparticles from Fe(acac) <sub>3</sub> Solution by Femtosecond Laser Irradiation. <i>Chemistry Letters</i> , 2020, 49, 75-78.	1.3	5
65	Synthesis of iron-based nanoparticles from ferrocene by femtosecond laser irradiation: Suppression of the particle growth in a mixture of water and hexane. <i>Chemical Physics Letters</i> , 2020, 750, 137504.	2.6	5
66	Smallest Organic Tetracation in the Gas Phase: Stability of Multiply Charged Diiodoacetylene Produced in Intense Femtosecond Laser Fields. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8014-8024.	2.5	4
67	Chemical behavior of oxygen-radical: quenching process of cumyloxyl radical by nicotinamide derivatives. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001, 143, 141-145.	3.9	3
68	Direct Ionization Desorption of Fullerene by Intense Femtosecond Laser Fields. <i>The Review of Laser Engineering</i> , 2008, 36, 1000-1003.	0.0	3
69	Coulomb explosion of a series of 1,2-diiodoalkanes in intense laser fields. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 116-123.	3.9	3
70	Single-, two- and three VUV photon reactions of a series of alkylarenes in the gas phase. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 162, 481-487.	3.9	2
71	Charge Transfer and Metastable Ion Dissociation of Multiply Charged Molecular Cations Observed by Using Reflectron Time-of-Flight Mass Spectrometry. <i>ChemPhysChem</i> , 2020, 21, 847-852.	2.1	2
72	Reduction and precipitation of aqueous europium (III) under an air atmosphere by near-infrared femtosecond laser pulses. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 427, 113853.	3.9	2

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73	One- and Two-Photon-Induced Ring-Cleavage Reactions of Strained Benzocycloalkenes via Hot Molecules. <i>Journal of Physical Chemistry A</i> , 2005, 109, 6847-6851.	2.5	1
74	Cooperative dissociation of J-aggregates into monomers in the 2-isobutoxyethanol/water binary solvent with the lower critical solution temperature. <i>Chemical Physics</i> , 2020, 536, 110817.	1.9	1
75	An electron-capture efficiency in femtosecond filamentation. <i>Chemical Physics Letters</i> , 2020, 752, 137570.	2.6	1
76	Chemical Reactions and Nanomaterial Productions in Liquid Phase by Femtosecond Laser Pulses. <i>The Review of Laser Engineering</i> , 2017, 45, 278.	0.0	1
77	Ionization and fragmentation of organic molecules by 0.8-1.5 femtosecond laser pulses. , 2009, , .		0
78	Formation of p-xylylene from p-xylene by a two-photon process and hexamethyl Dewar benzene from hexamethylbenzene by a one-photon process at 193nm. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 219, 273-277.	3.9	0
79	Graphitization of Chlorohydrocarbons in Laser-induced Plasma Filaments. <i>Electronics and Communications in Japan</i> , 2016, 99, 51-57.	0.5	0
80	Eluent-assisted Nonresonant Multiphoton Ionization of Polycyclic Aromatic Hydrocarbons in a Liquid Chromatograph-mass Spectrometer. <i>Chemistry Letters</i> , 2018, 47, 1014-1017.	1.3	0
81	Multiply charged energetic metal ion emissions from dinuclear metal complex exposed to intense femtosecond laser fields. <i>International Journal of Mass Spectrometry</i> , 2020, 447, 116236.	1.5	0
82	Charge Transfer and Metastable Ion Dissociation of Multiply Charged Molecular Cations Observed by Using Reflectron Time-of-Flight Mass Spectrometry. <i>ChemPhysChem</i> , 2020, 21, 824-824.	2.1	0
83	Ionization of Organic Molecules by High Intense Femtosecond Laser. <i>The Review of Laser Engineering</i> , 2005, 33, 12-13.	0.0	0
84	Graphitization of Chlorohydrocarbons in Laser-induced Plasma Filaments. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2015, 135, 1075-1079.	0.2	0
85	Production of Multiply Charged Molecular Cation by Femtosecond Laser Pulses. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2022, 70, 24-29.	0.1	0
86	Laser-fluence dependence of resonance-enhanced multiphoton reduction of trivalent europium. <i>Chemical Physics Letters</i> , 2022, 802, 139759.	2.6	0