

Toshinori Suzuki

List of Publications by Year in descending order

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107
papers

4,016
citations

101543

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128289

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108
all docs

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docs citations

108
times ranked

2563
citing authors

#	ARTICLE	IF	CITATIONS
1	Shallow and deep trap states of solvated electrons in methanol and their formation, electronic excitation, and relaxation dynamics. <i>Chemical Science</i> , 2022, 13, 3837-3844.	7.4	9
2	Ultrafast Photoisomerization of Ethylene Studied Using Time-Resolved Extreme Ultraviolet Photoelectron Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3873-3879.	2.5	6
3	Extreme ultraviolet time-resolved photoelectron spectroscopy of aqueous aniline solution: enhanced surface concentration and pump-induced space charge effect. <i>Molecular Physics</i> , 2021, 119, e1748240.	1.7	9
4	Spiers Memorial Lecture: Introduction to ultrafast spectroscopy and imaging of photochemical reactions. <i>Faraday Discussions</i> , 2021, 228, 11-38.	3.2	3
5	Femtosecond X-ray spectroscopy of haem proteins. <i>Faraday Discussions</i> , 2021, 228, 312-328.	3.2	2
6	Valence Photoelectron Spectra of Liquid Methanol and Ethanol Measured Using He II Radiation. <i>Journal of Physical Chemistry A</i> , 2021, 125, 2492-2503.	2.5	11
7	Ultrafast Extreme Ultraviolet Photoelectron Spectroscopy of Nonadiabatic Photodissociation of CS ₂ from ¹ B ₂ (¹ Î _u ⁺) State: Product Formation via an Intermediate Electronic State. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3755-3761.	4.6	11
8	Ultrafast Ring-Opening Reaction of 1,3-Cyclohexadiene: Identification of Nonadiabatic Pathway via Doubly Excited State. <i>Journal of the American Chemical Society</i> , 2021, 143, 8034-8045.	13.7	20
9	Design and characterization of a magnetic bottle electron spectrometer for time-resolved extreme UV and X-ray photoemission spectroscopy of liquid microjets. <i>Structural Dynamics</i> , 2021, 8, 034303.	2.3	12
10	Exploration of Gas-Liquid Interfaces for Liquid Water and Methanol Using Extreme Ultraviolet Laser Photoemission Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10514-10526.	2.6	5
11	Femtosecond X-ray emission study of the spin cross-over dynamics in haem proteins. <i>Nature Communications</i> , 2020, 11, 4145.	12.8	29
12	Surface potential of liquid microjet investigated using extreme ultraviolet photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 152, 144503.	3.0	14
13	Ultrafast Dynamics of Water Radiolysis: Hydrated Electron Formation, Solvation, Recombination, and Scavenging. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5510-5516.	4.6	18
14	Methyl substitution effects on the non-adiabatic dynamics of benzene: lifting three-state quasi-degeneracy at conical intersections. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2814-2818.	2.8	5
15	Non-adiabatic Dynamics of Molecules Studied Using Vacuum-Ultraviolet Ultrafast Photoelectron Spectroscopy. , 2019, , 287-306.		1
16	Ultrafast Internal Conversion and Solvation of Electrons in Water, Methanol, and Ethanol. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4499-4504.	4.6	19
17	Time-Resolved Photoelectron Imaging of Acetone with 9.3 eV Photoexcitation. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6848-6853.	2.5	4
18	Ultrafast photoelectron spectroscopy of aqueous solutions. <i>Journal of Chemical Physics</i> , 2019, 151, 090901.	3.0	28

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19	Binding energy of solvated electrons and retrieval of true UV photoelectron spectra of liquids. <i>Science Advances</i> , 2019, 5, eaaw6896.	10.3	47
20	Charge-Transfer-to-Solvent Reaction in a Hydrophobic Tetrabutylammonium Iodide Molecular Layer in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3769-3775.	2.6	8
21	Solvated electron formation from the conduction band of liquid methanol: Transformation from a shallow to deep trap state. <i>Journal of Chemical Physics</i> , 2019, 151, 114503.	3.0	11
22	Probing ultrafast dynamics during and after passing through conical intersections. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13902-13905.	2.8	28
23	On the Relation between the Interfacial Charge of a Discharging Nozzle and Electrification of a Liquid Microjet. <i>Chemistry Letters</i> , 2018, 47, 16-19.	1.3	4
24	Unravelling the Electronic State of NO ₂ Product in Ultrafast Photodissociation of Nitromethane. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 270-273.	4.6	13
25	UV-Driven Harmonic Generation for Time-Resolved Photoelectron Spectroscopy of Polyatomic Molecules. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1784.	2.5	8
26	Genuine binding energy of the hydrated electron. <i>Science Advances</i> , 2017, 3, e1603224.	10.3	99
27	Unexpectedly broad photoelectron spectrum as a signature of ultrafast electronic relaxation of Rydberg states of carbon dioxide. <i>Physical Review A</i> , 2017, 95, .	2.5	9
28	Angle-resolved photoemission spectroscopy of liquid water at 29.5 eV. <i>Structural Dynamics</i> , 2017, 4, 044014.	2.3	23
29	Time-resolved photoelectron spectroscopy of polyatomic molecules using 42-nm vacuum ultraviolet laser based on high harmonics generation. <i>Chemical Physics Letters</i> , 2017, 684, 397-401.	2.6	12
30	Real-time detection of S(1D ₂) photofragments produced from the 1B ₂ (1 $\hat{\Sigma}$ u ⁺) state of CS ₂ by vacuum ultraviolet photoelectron imaging using 133 nm probe pulses. <i>Journal of Chemical Physics</i> , 2017, 147, 013932.	3.0	16
31	Full observation of ultrafast cascaded radiationless transitions from S ₂ ($\hat{\Gamma}$ u ⁻) state of pyrazine using vacuum ultraviolet photoelectron imaging. <i>Journal of Chemical Physics</i> , 2016, 145, 044306.	3.0	37
32	Charge-transfer-to-solvent reactions from $\hat{\Gamma}$ u ⁻ to water, methanol, and ethanol studied by time-resolved photoelectron spectroscopy of liquids. <i>Journal of Chemical Physics</i> , 2016, 145, 074502.	3.0	22
33	Ultrafast photodynamics of pyrazine in the vacuum ultraviolet region studied by time-resolved photoelectron imaging using 7.8-eV pulses. <i>Journal of Chemical Physics</i> , 2016, 145, 044307.	3.0	18
34	Photoisomerization of Vibrationally Hot Tetramethylethylene Produced by Ultrafast Internal Conversion from the Excited State. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5099-5102.	2.5	6
35	Resolving Nonadiabatic Dynamics of Hydrated Electrons Using Ultrafast Photoemission Anisotropy. <i>Physical Review Letters</i> , 2016, 116, 137601.	7.8	33
36	Wavelength Dependence of UV Photoemission from Solvated Electrons in Bulk Water, Methanol, and Ethanol. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1153-1159.	2.5	49

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37	Ultrafast Photoelectron Imaging Using Tunable UV and Vacuum UV Pulses. <i>Chemistry Letters</i> , 2015, 44, 791-793.	1.3	0
38	Linear and circular dichroism in photoelectron angular distributions caused by electron correlation. <i>Physical Review A</i> , 2015, 91, .	2.5	4
39	Direct Observation of Ground-State Product Formation in a 1,3-Cyclohexadiene Ring-Opening Reaction. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 343-346.	4.6	56
40	Observation of the wavepacket dynamics on the $1^2(1^1\sigma_u^+)$ state of CS ₂ by sub-20 fs photoelectron imaging using 159 nm probe pulses. <i>Journal of Chemical Physics</i> , 2015, 142, 074308.	3.0	30
41	Excited-state dynamics of furan studied by sub-20-fs time-resolved photoelectron imaging using 159-nm pulses. <i>Journal of Chemical Physics</i> , 2015, 143, 014302.	3.0	21
42	Ultraviolet photochemical reaction of [Fe(III)(C ₂ O ₄) ₃] ³⁻ in aqueous solutions studied by femtosecond time-resolved X-ray absorption spectroscopy using an X-ray free electron laser. <i>Structural Dynamics</i> , 2015, 2, 034901.	2.3	52
43	Initial Phase Shifts in the Quantum Beat Resulting from the Ultrafast Internal Conversion of Pyrazine. <i>Springer Proceedings in Physics</i> , 2015, , 172-175.	0.2	0
44	Ultrafast Internal Conversion of Aromatic Molecules Studied by Photoelectron Spectroscopy using Sub-20 fs Laser Pulses. <i>Molecules</i> , 2014, 19, 2410-2433.	3.8	7
45	Generation of sub-17-fs vacuum ultraviolet pulses at 133-nm using cascaded four-wave mixing through filamentation in Ne. <i>Optics Letters</i> , 2014, 39, 6021.	3.3	26
46	Time- and Angle-Resolved Photoemission Spectroscopy of Hydrated Electrons Near a Liquid Water Surface. <i>Physical Review Letters</i> , 2014, 112, 187603.	7.8	49
47	Effective attenuation length of an electron in liquid water between 10 and 600 eV. <i>Physical Review E</i> , 2014, 90, 010302.	2.1	92
48	Photoelectron spectroscopy of aqueous solutions: Streaming potentials of NaX (X = Cl, Br, and I) solutions and electron binding energies of liquid water and X ⁻ . <i>Journal of Chemical Physics</i> , 2014, 140, 174506.	3.0	90
49	Ultrafast electronic dynamics in polyatomic molecules studied using femtosecond vacuum ultraviolet and x-ray pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124001.	1.5	18
50	Nonadiabatic Electronic Dynamics in Isolated Molecules and in Solution Studied by Ultrafast Time-Resolved Energy Mapping of Photoelectron Distributions. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 341-354.	3.2	2
51	Initial Phase in Quantum Beat Created via Ultrafast Internal Conversion of Pyrazine. , 2014, , .		0
52	Simultaneous generation of sub-20 fs deep and vacuum ultraviolet pulses in a single filamentation cell and application to time-resolved photoelectron imaging. <i>Optics Express</i> , 2013, 21, 22423.	3.4	38
53	Time-resolved photoelectron imaging spectra from non-adiabatic molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2013, 139, 134104.	3.0	59
54	Vacuum Ultraviolet and Soft X-ray Photoelectron Spectroscopy of Liquid Beams Using a Hemispherical Photoelectron Spectrometer with a Multistage Differential Pumping System. <i>Journal of the Chinese Chemical Society</i> , 2013, 60, 1403-1410.	1.4	8

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55	Visualization of chemical reaction dynamics: Toward understanding complex polyatomic reactions. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2013, 89, 1-15.	3.8	2
56	Effect of electron correlation and shape resonance on photoionization from the S1 and S2 states of pyrazine. Journal of Chemical Physics, 2012, 137, 194314.	3.0	16
57	Generation of intense single-order harmonic pulse in the vacuum ultraviolet region using a deep ultraviolet driving laser. Optics Letters, 2012, 37, 2118.	3.3	25
58	Simultaneous generation of ultrashort pulses at 158 and 198 nm in a single filamentation cell by cascaded four-wave mixing in Ar. Applied Physics B: Lasers and Optics, 2012, 108, 815-819.	2.2	10
59	Time-resolved photoelectron spectroscopy of non-adiabatic electronic dynamics in gas and liquid phases. International Reviews in Physical Chemistry, 2012, 31, 265-318.	2.3	76
60	Photoelectron spectra of solvated electrons in bulk water, methanol, and ethanol. Chemical Physics Letters, 2012, 535, 12-16.	2.6	46
61	Non-Adiabatic Chemical Dynamics Studied by Ultrafast Photoelectron Imaging Spectroscopy. The Review of Laser Engineering, 2012, 40, 739.	0.0	0
62	Isotope effect on ultrafast charge-transfer-to-solvent reaction from I ^{•+} to water in aqueous NaI solution. Chemical Science, 2011, 2, 1094.	7.4	35
63	Rovibrational state specific scattering distributions of the O(1D) + CD ₄ → OD + CD ₃ (v ₁ , v ₂ , N) reaction. Physical Chemistry Chemical Physics, 2011, 13, 8371.	2.8	14
64	Photoelectron Imaging Spectroscopy of S ₁ (v ₁) B _{2u} (v ₁) Benzene via 6 ¹ (v ₁) (v ₁ = 0 ⁺) Levels. Journal of Physical Chemistry A, 2011, 115, 2096-2102.	2.5	11
65	High-resolution soft X-ray photoelectron spectroscopy of liquid water. Physical Chemistry Chemical Physics, 2011, 13, 413-417.	2.8	85
66	He I Ultraviolet Photoelectron Spectroscopy of Benzene and Pyridine in Supersonic Molecular Beams Using Photoelectron Imaging. Journal of Physical Chemistry A, 2011, 115, 2953-2965.	2.5	47
67	Two-color deep-ultraviolet 40-fs pulses based on parametric amplification at 100 kHz. Optics Express, 2011, 19, 22637.	3.4	9
68	Excited State Dynamics of CS ₂ Studied by Photoelectron Imaging with a Time Resolution of 22 fs. Chemistry - an Asian Journal, 2011, 6, 3028-3034.	3.3	19
69	Time-resolved photoelectron imaging of S ₂ → S ₁ internal conversion in benzene and toluene. Journal of Chemical Physics, 2011, 134, 184313.	3.0	51
70	Direct Measurement of Vertical Electron Binding Energies of Solvated Electrons in Methanol and Ethanol. Chemistry Letters, 2010, 39, 668-670.	1.3	28
71	Time-resolved photoelectron spectroscopy of bulk liquids at ultra-low kinetic energy. Chemical Physics Letters, 2010, 494, 111-116.	2.6	50
72	Time-resolved photoelectron imaging of ultrafast S ₂ → S ₁ internal conversion through conical intersection in pyrazine. Journal of Chemical Physics, 2010, 132, 174302.	3.0	84

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73	Time-resolved photoelectron imaging using a femtosecond UV laser and a VUV free-electron laser. <i>Physical Review A</i> , 2010, 81, .	2.5	24
74	Molecular Frame Image Restoration and Partial Wave Analysis of Photoionization Dynamics of NO by Time-Energy Mapping of Photoelectron Angular Distribution. <i>Physical Review Letters</i> , 2010, 104, 073002.	7.8	31
75	Ultrafast photodynamics of furan. <i>Journal of Chemical Physics</i> , 2010, 133, 234303.	3.0	69
76	Spectral phase transfer to ultrashort UV pulses through four-wave mixing. <i>Optics Express</i> , 2010, 18, 16183.	3.4	19
77	Direct measurement of vertical binding energy of a hydrated electron. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3653.	2.8	152
78	Experimental and theoretical investigation of a multicolor filament. <i>Physical Review A</i> , 2009, 80, .	2.5	44
79	Multihit two-dimensional charged-particle imaging system with real-time image processing at 1000 frames/s. <i>Review of Scientific Instruments</i> , 2009, 80, 013706.	1.3	28
80	Probing Ultrafast Internal Conversion through Conical Intersection via Time-Energy Map of Photoelectron Angular Anisotropy. <i>Journal of the American Chemical Society</i> , 2009, 131, 10392-10393.	13.7	108
81	Super-Resolution Photoelectron Imaging with Real-Time Subpixelation by Field Programmable Gate Array and Its Application to NO and Benzene Photoionization. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14536-14544.	2.5	22
82	Nonadiabatic dynamics within the time dependent density functional theory: Ultrafast photodynamics in pyrazine. <i>Chemical Physics</i> , 2008, 349, 319-324.	1.9	137
83	Reaction mechanism duality in O(1D2) + CD ₄ → OD + CD ₃ identified from scattering distributions of rotationally state selected CD ₃ . <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 7222.	2.8	17
84	3s Rydberg and Cationic States of Pyrazine Studied by Photoelectron Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2008, 112, 2293-2310.	2.5	37
85	Collision Energy Dependence of the O(1D) + HCl → OH + Cl(2P) Reaction Studied by Crossed Beam Scattering and Quasiclassical Trajectory Calculations on Ab Initio Potential Energy Surfaces. <i>Journal of Physical Chemistry A</i> , 2008, 112, 818-825.	2.5	22
86	Photoelectron Angular Distribution in Valence Shell Ionization of Heteroaromatic Molecules Studied by the Continuum Multiple Scattering X _± Method. <i>Journal of Physical Chemistry A</i> , 2008, 112, 402-411.	2.5	25
87	Generation of 12 fs deep-ultraviolet pulses by four-wave mixing through filamentation in neon gas. <i>Optics Letters</i> , 2007, 32, 2481.	3.3	144
88	Generation of sub-two-cycle mid-infrared pulses by four-wave mixing through filamentation in air. <i>Optics Letters</i> , 2007, 32, 3330.	3.3	215
89	Determination of ionization dynamical parameters by time-resolved photoelectron imaging. <i>Molecular Physics</i> , 2007, 105, 1675-1693.	1.7	20
90	FEMTOSECOND TIME-RESOLVED PHOTOELECTRON IMAGING. <i>Annual Review of Physical Chemistry</i> , 2006, 57, 555-592.	10.8	257

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91	Femtosecond Time-Resolved Photoelectron Imaging Study of Photoinduced Molecular Dynamics. Journal of the Chinese Chemical Society, 2006, 53, 113-122.	1.4	3
92	A Crossed Molecular Beam Imaging Study of the O(1D ₂)+HCl→OH+Cl(2P _J =3/2, $\hat{\alpha}$ %1/2) Reaction. ChemPhysChem, 2006, 7, 1250-1257.	2.1	26
93	Ultrafast dissociation processes in the NO dimer studied with time-resolved photoelectron imaging. Journal of Electron Spectroscopy and Related Phenomena, 2005, 142, 193-205.	1.7	12
94	Photoelectron kinetic energy dependence in near threshold ionization of NO from A state studied by time-resolved photoelectron imaging. Journal of Chemical Physics, 2004, 121, 8846-8853.	3.0	23
95	Femtosecond Photoelectron Imaging on Pyrazine: $\hat{A}(1+2\hat{\alpha}^-)$ REMPI of Deuterated Pyrazine. Journal of Physical Chemistry A, 2004, 108, 5764-5769.	2.5	26
96	Femtosecond Photoelectron Imaging on Pyrazine: $\hat{\alpha}$ % S1 $\hat{\alpha}$ † T1 Intersystem Crossing and Rotational Coherence Transfer. Journal of Physical Chemistry A, 2004, 108, 6823-6835.	2.5	32
97	TIME-RESOLVED PHOTOELECTRON SPECTROSCOPY AND IMAGING. Advanced Series in Physical Chemistry, 2004, , 529-578.	1.5	5
98	Femtosecond Photoelectron Imaging on Pyridine: Ultrafast Electronic Dephasing from the S1($n\hat{\alpha}^*$) State and Rydberg State Energetics. Journal of Physical Chemistry A, 2003, 107, 10897-10903.	2.5	46
99	Femtosecond photoelectron imaging of pyridazine: S1 lifetime and (3s($n\hat{\alpha}^1$), 3p($n\hat{\alpha}^1$)) Rydberg state energetics. Journal of Chemical Physics, 2003, 119, 300-303.	3.0	26
100	Non-adiabatic effects in chemistry revealed by time-resolved charged-particle imaging. International Reviews in Physical Chemistry, 2001, 20, 313-356.	2.3	83
101	Femtosecond photoelectron imaging on pyrazine: Spectroscopy of 3s and 3p Rydberg states. Journal of Chemical Physics, 2001, 115, 8810-8818.	3.0	47
102	Fully State-Resolved Differential Cross Sections for the Inelastic Scattering of the Open-Shell NO Molecule by Ar. Science, 2001, 294, 832-834.	12.6	108
103	Photoelectron Imaging on Time-Dependent Molecular Alignment Created by a Femtosecond Laser Pulse. Physical Review Letters, 2001, 86, 4500-4503.	7.8	100
104	A crossed molecular beam apparatus using high-resolution ion imaging. Review of Scientific Instruments, 1999, 70, 3265-3270.	1.3	52
105	Femtosecond time-resolved photoelectron imaging on ultrafast electronic dephasing in an isolated molecule. Journal of Chemical Physics, 1999, 111, 4859-4861.	3.0	75
106	Femtosecond time-resolved photoelectron imaging. Faraday Discussions, 1999, 113, 37-46.	3.2	77
107	Vibrational distribution of CH ₃ produced by the reaction of O(1D ₂) atom with CH ₄ . Journal of Chemical Physics, 1993, 98, 2387-2398.	3.0	95