Taro Sekikawa

List of Publications by Year
in descending order

113	2,549	186265	189892
papers	citations	28 h-index	50 g-index

116	116	116	1771
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Real-Time Probing of an Atmospheric Photochemical Reaction by Ultrashort Extreme Ultraviolet Pulses: Nitrous Acid Release from o-Nitrophenol. Journal of Physical Chemistry Letters, 2021, 12, 674-679.	4.6	7
2	Circularly Polarized High Harmonic Generation for Probing Molecular Chirality. Topics in Applied Physics, 2021, , 129-148.	0.8	0
3	Real-Time Probing of Atmospheric Photochemical Reaction by Ultrashort Eextreme Ultraviolet Pulses: Nitrous Acid Release from o-Nitrophenol. , 2021, , .		0
4	Switching the relaxation pathway by steric effects in conjugated dienes. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 174004.	1.5	0
5	Dynamic interference of the high harmonics from photoisomerizing 1,3-cyclohexadiene. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 441.	2.1	1
6	Time-resolved diffraction: general discussion. Faraday Discussions, 2021, 228, 161-190.	3.2	2
7	High Harmonic Spectroscopy of Circularly Polarized High Harmonic Generation Process. , 2020, , .		0
8	Simultaneous detection of beam pointing and optical phase errors for multiple beams using a quadrant photo detector for high-efficiency coherent beam combining systems. Applied Physics Express, 2019, 12, 102012.	2.4	8
9	Ultrafast Photolysis of o-Nitrophenol Studied by Time-Resolved Photoelectron Spectroscopy. EPJ Web of Conferences, 2019, 205, 09022.	0.3	3
10	Polarimetry of a single-order circularly polarized high harmonic separated by a time-delay compensated monochromator. Optics Express, 2019, 27, 38735.	3.4	2
11	Ultrafast Ring-Opening Dynamics of 1,3-cyclohexadiene Probed via Time-Resolved High-Harmonic Spectroscopy. , 2019, , .		0
12	Circular dichroism in high-order harmonic generation from chiral molecules. Physical Review A, 2018, 98, .	2.5	42
13	Time-resolved high-harmonic spectroscopy of ultrafast photoisomerization dynamics. Optics Express, 2018, 26, 31039.	3.4	18
14	Circular Dichroism in High Harmonic Generation from Chiral Molecules. , 2018, , .		0
15	Ultrafast Photo-Isomerization Dynamics Probed via Time-Resolved High-Harmonic Spectroscopy. , 2018, , .		0
16	Circularly Polarized High Harmonic Generation from Chiral Molecules. , 2018, , .		0
17	Tailoring extreme-ultraviolet light. Nature Photonics, 2017, 11, 209-210.	31.4	0
18	Controlling the relaxation pathways by substituent effects in conjugated dienes. , 2017, , .		0

#	Article	IF	Citations
19	Electronic and non-adiabatic dynamics: general discussion. Faraday Discussions, 2016, 194, 209-257.	3.2	3
20	Excited state non-adiabatic dynamics of N-methylpyrrole: A time-resolved photoelectron spectroscopy and quantum dynamics study. Journal of Chemical Physics, 2016, 144, 014309.	3.0	21
21	Structural dynamics of photochemical reactions probed by time-resolved photoelectron spectroscopy using high harmonic pulses. Faraday Discussions, 2016, 194, 147-160.	3.2	23
22	Bond Selective Probe by Time-Resolved Photoelectron Spectroscopy: Ring-Opening Dynamics of 1,3-Cyclohexadiene. , 2016, , .		0
23	Bond Selective Probe by Time-Resolved Photoelectron Spectroscopy: Ring-Opening Dynamics of 1,3-Cyclohexadiene. , 2016, , .		0
24	Time-Resolved Photoelectron Spectroscopy of Dissociating 1,2-Butadiene Molecules by High Harmonic Pulses. Journal of Physical Chemistry Letters, 2015, 6, 2463-2468.	4.6	16
25	Excited state non-adiabatic dynamics of pyrrole: A time-resolved photoelectron spectroscopy and quantum dynamics study. Journal of Chemical Physics, 2015, 142, 074302.	3.0	59
26	Ultrafast and Photodissociation Dynamics of 1,2-Butadiene Studied by Photoelectron Spectroscopy. Springer Proceedings in Physics, 2015, , 44-47.	0.2	0
27	Time-Resolved Photoelectron Spectroscopy of Gaseous Molecule Using Single-Order High Harmonic Pulses. The Review of Laser Engineering, 2015, 43, 833.	0.0	0
28	Ultrafast and Photodissociation Dynamics of 1,2-Butadiene Studied by Photoelectron Spectroscopy. , 2014, , .		0
29	Ultrafast Relaxation Dynamics in trans-1,3-Butadiene Studied by Time-Resolved Photoelectron Spectroscopy with High Harmonic Pulses. Journal of Physical Chemistry Letters, 2014, 5, 1760-1765.	4.6	24
30	Initial Processes of Proton Transfer in Salicylideneaniline Studied by Time-Resolved Photoelectron Spectroscopy. Journal of Physical Chemistry A, 2013, 117, 2971-2979.	2.5	50
31	Electron trajectory selection for high harmonic generation inside a short hollow fiber. Optics Express, 2013, 21, 20632.	3.4	5
32	Ultrafast restoration of valence electrons in 1,3-butadiene probed by time-resolved photoelectron spectroscopy with high harmonic pulses. , 2013, , .		0
33	Pulse Compression of Phase-matched High Harmonic Pulses from a Time-Delay Compensated Monochromator. EPJ Web of Conferences, 2013, 41, 01004.	0.3	0
34	Initial Processes of Proton Transfer in Salicylideneaniline Studied by Time-Resolved Photoelectron Spectroscopy. EPJ Web of Conferences, 2013, 41, 02031.	0.3	0
35	Ultrafast recovery of valence electrons in 1,3-butadiene probed by time-resolved photoelectron spectroscopy with high harmonic pulses. , 2013, , .		0
36	Pulse compression of phase-matched high harmonic pulses from a time-delay compensated monochromator. Optics Express, 2012, 20, 3725.	3.4	59

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37	Pulse compression of phase-matched high harmonic pulses from a time-delay compensated monochromator. , 2012, , .		1
38	Initial process of proton transfer in salicylideneaniline studied by time-resolved photoelectron spectroscopy. , 2011, , .		0
39	Ultrabroadband spectral amplitude modulation using a liquid crystal spatial light modulator with ultraviolet-to-near-infrared bandwidth. Applied Optics, 2010, 49, 350.	2.1	7
40	Spatiotemporal characterization of single-order high harmonic pulses from time-compensated toroidal-grating monochromator. Optics Express, 2010, 18, 6071.	3.4	50
41	Spatio-Temporal Characterization of Single-Order High Harmonic Pulses Separated by Pulse-Front-Tilt Compensator. , 2010, , .		0
42	The development of angularly-dispersed non-collinear optical parametric amplifier for generation of high power optical pulses in monocycle regime. , 2010, , .		0
43	Spatio-Temporal Characterization of Single-Order High Harmonic Pulses Separated by Pulse-Front-Tilt Compensator. , 2010, , .		0
44	Monocycle pulse generation and octave bandwidth amplification. , 2009, , .		0
45	Efficient Compression of Carrier-Envelope Phase-Locked Laser Pulses to 5.2 fs Using an Al-Coated Hollow Fiber. Japanese Journal of Applied Physics, 2009, 48, 010213.	1.5	1
46	Photoisomerization dynamics study on cis-azobenzene derivative using ultraviolet-to-visible tunable femtosecond pulses. Applied Surface Science, 2009, 255, 9864-9868.	6.1	13
47	Spatial light modulator of 648 pixels with liquid crystal transparent from ultraviolet to near-infrared and its chirp compensation application. Optics Letters, 2009, 34, 1696.	3.3	36
48	Generation of ultrashort optical pulses in the10 fs regime using multicolor Raman sidebands in KTaO_3. Optics Letters, 2009, 34, 1837.	3.3	15
49	Two-photon Resonant Excitation of a Doubly Excited State in He atoms by High-harmonic Pulses. , 2009, , .		0
50	Generation of visible 13-fs pulses using Raman-Nath like multiple CARS signals in KTaO3. , 2009, , .		0
51	Noncollinear Optical Parametric Amplification Pumped by the Third Harmonics of a Ti:sapphire Laser. Springer Series in Chemical Physics, 2009, , 759-761.	0.2	1
52	Mechanism of the Multiple Raman Sidebands Generation in Diamond Pumped by Two Femtosecond Pulses. , 2009, , .		0
53	Efficient selection of high harmonics by a pulse-front-compensated separator. , 2009, , .		0
54	Angularly-dispersed optical parametric amplification of optical pulses with one-octave bandwidth toward monocycle regime. Optics Express, 2008, 16, 18345.	3.4	28

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55	Two-photon resonant excitation of a doubly excited state in He atoms by high-harmonic pulses. Optics Express, 2008, 16, 21922.	3.4	23
56	Generation of ultrashort optical pulses using multiple coherent anti-Stokes Raman scattering in a crystal at room temperature. Applied Physics Letters, 2008, 92, 071104.	3.3	38
57	Complete characterization of high harmonic pulses by photoelectron spectral shearing interferometry. , 2008, , .		0
58	Generation of ultrashort optical pulses using multiple coherent anti-Stokes Raman scattering in LiNbO<inf>3</inf>. , 2008, , .		0
59	Nearly-octave broadband, high-powered optical parametric amplification toward monocycle regime. , 2008, , .		0
60	Efficient compression of carrier-envelope phase-locked laser pulses to 5 fs using an aluminum-coated hollow fiber. , 2007, , .		0
61	Angle-dispersion compensation and phase characterization of multiple CARS signals in LiNbO<inf>3</inf> towards extremely-short optical pulse generation. , 2007, , .		0
62	Spatial light modulator with an over-two-octave bandwidth from ultraviolet to near infrared. Optics Letters, 2007, 32, 3318.	3.3	13
63	Generation of 26 fs optical pulses using induced-phase modulation in a gas-filled hollow fiber. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 985.	2.1	115
64	Automatic Phase Compensation for Extremely Short Optical-Pulse Generation Using Wavelet Transform. IEEE Journal of Quantum Electronics, 2007, 43, 1218-1226.	1.9	3
65	Angle-dispersion compensation of multiple CARS signals in LiNbO<inf>3</inf> towards extremely-short optical pulse generation. , 2007, , .		0
66	Attosecond Pulse Characterization by XUV Nonlinear Optics. Springer Series in Optical Sciences, 2007, , 27-31.	0.7	2
67	High Average Power, 7.5-fs Blue Source at 5 kHz. Springer Series in Optical Sciences, 2007, , 481-491.	0.7	0
68	Attosecond pulse characterization by XUV nonlinear optics. , 2006, , .		0
69	Frequency-Resolved Optical Gating of Isolated Attosecond Pulses in the Extreme Ultraviolet. Physical Review Letters, 2006, 97, 263901.	7.8	48
70	<title>Attosecond pulse characterization by XUV nonlinear optics</title>. , 2006, , .		0
71	Significant enhancement of high-order harmonics below10nmin a two-color laser field. Physical Review A, 2006, 73, .	2.5	50
72	Generation of high average power, 7.5-fs blue pulses at 5 kHz by adaptive phase control. Applied Physics B: Lasers and Optics, 2005, 81, 13-17.	2.2	16

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73	Observation of Two-Photon Above-Threshold Ionization of Rare Gases by xuv Harmonic Photons. Physical Review Letters, 2004, 93, 083903.	7.8	82
74	Nonlinear optics in the extreme ultraviolet. Nature, 2004, 432, 605-608.	27.8	328
75	Phase-matched enhancements of high-harmonic soft X-rays by adaptive wave-front control with a genetic algorithm. Applied Physics B: Lasers and Optics, 2004, 78, 275-280.	2.2	30
76	Generation of vacuum-ultraviolet light below 160 nm in a KBBF crystal by the fifth harmonic of a single-mode Ti:sapphire laser. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 370.	2.1	88
77	Generation of terawatt 10-fs blue pulses by compensation for pulse-front distortion in broadband frequency doubling. Optics Letters, 2004, 29, 2929.	3.3	25
78	Techniques for Temporal Characterization of Ultrafast XUV Radiation. Springer Series in Optical Sciences, 2004, , 271-283.	0.7	0
79	Generation of vacuum-ultraviolet light by an optically contacted, prism-coupled KBe_2BO_3F_2 crystal. Optics Letters, 2003, 28, 254.	3.3	102
80	Generation of subterawatt sub-10-fs blue pulses at 1â€“5kHz by broadband frequency doubling. Optics Letters, 2003, 28, 1484.	3.3	37
81	Time-Resolved Auger Decay in CsBr Using High Harmonics. Physical Review Letters, 2003, 91, 017401.	7.8	22
82	Frequency-Resolved Optical Gating of Femtosecond Pulses in the Extreme Ultraviolet. Physical Review Letters, 2003, 91, 103902.	7.8	42
83	Measurement of the Intensity-Dependent Atomic Dipole Phase of a High Harmonic by Frequency-Resolved Optical Gating. Physical Review Letters, 2002, 88, 193902.	7.8	91
84	Second-harmonic generation from a KBe_2BO_3F_2 crystal in the deep ultraviolet. Optics Letters, 2002, 27, 637.	3.3	114
85	Generation and focusing of submilliwatt-average-power 50-nm pulses by the fifth harmonic of a KrF laser. Optics Letters, 2002, 27, 2170.	3.3	31
86	Femtosecond lattice relaxation induced by inner-shell excitation. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1941.	2.1	11
87	Measurement of High Harmonic Pulses.. The Review of Laser Engineering, 2002, 30, 503-507.	0.0	1
88	50-W average-power, 480-fs KrF excimer laser with gated gain amplification. Optics Letters, 2001, 26, 807.	3.3	13
89	Generation of milliwatt narrow-bandwidth vacuum ultraviolet radiation by an all-solid-state tunable high-average-power laser system. Optics Letters, 2001, 26, 831.	3.3	15
90	High-average-power femtosecond KrF excimer laser. IEEE Journal of Selected Topics in Quantum Electronics, 2001, 7, 551-558.	2.9	4

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91	Intense Optical Field Science. High-Power, Femtosecond Lasers and the Application to Solid State Physics.. The Review of Laser Engineering, 2001, 29, 218-224.	0.0	2
92	Auger-free luminescence excited by high-order harmonics of a femtosecond Ti:sapphire laser. Journal of Luminescence, 2000, 87-89, 827-829.	3.1	11
93	All-solid-state high-peak-power Ti:sapphire laser system above 5-kHz repetition rate. Applied Physics B: Lasers and Optics, 2000, 70, S171-S179.	2.2	38
94	Pulse compression of a high-order harmonic. Applied Physics B: Lasers and Optics, 2000, 70, S233-S237.	2.2	1
95	Pulse width measurement of high-order harmonics by autocorrelation. Applied Physics B: Lasers and Optics, 2000, 70, 389-394.	2.2	46
96	Femtosecond time-resolved luminescence spectroscopy of inner-shell excitations by high-order harmonics. , 2000, , .		0
97	Pulse Compression of a High-Order Harmonic by Compensating the Atomic Dipole Phase. Physical Review Letters, 1999, 83, 2564-2567.	7.8	75
98	Sub-picosecond fluorescence spectroscopy of the M intermediate in the photocycle of bacteriorhodopsin by using up-conversion fluorometry. Chemical Physics Letters, 1999, 305, 15-20.	2.6	6
99	High-peak-power femtosecond Cr:forsterite laser system. Applied Physics B: Lasers and Optics, 1999, 68, 169-175.	2.2	11
100	All-solid-state 5-kHz 02-TW Ti:sapphire laser system. Optics Express, 1999, 5, 318.	3.4	19
101	Report on CLEO/QELS'99. The Review of Laser Engineering, 1999, 27, 553-571.	0.0	0
102	27-fs extreme ultraviolet pulse generation by high-order harmonics. Optics Letters, 1998, 23, 64.	3.3	167
103	Generation of 066-TW pulses at 1??kHz by a Ti:sapphire laser. Optics Letters, 1998, 23, 1384.	3.3	98
104	Femtosecond extreme-ultraviolet quasi-continuum generation by an intense femtosecond Ti:sapphire laser. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 1406.	2.1	18
105	Spin-0 soliton formation in spin-Peierls systems: Charge-transfer complexes DAP-TCNQ and DAP-DMTCNQ. Physical Review B, 1997, 55, 4182-4190.	3.2	9
106	Ultrafast Photoluminescence Dynamics in a Quasi-one-dimentional Halogen-bridged Mixed-valence Complex [Pt(en)2][Pt(en)2Cl2](ClO4)4. Chemistry Letters, 1997, 26, 1029-1030.	1.3	6
107	Femtosecond Fluorescence Study of Proton-Transfer Process in Thermochromic Crystalline Salicylideneanilines. Journal of Physical Chemistry B, 1997, 101, 10645-10652.	2.6	46
108	Femtosecond Fluorescence Study of the Substitution Effect on the Proton Transfer in Thermochromic Salicylideneaniline Crystals. Journal of Physical Chemistry A, 1997, 101, 644-649.	2.5	109

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109	High-power sub-100-fs UV pulse generation from a spectrally controlled KrF laser. Optics Letters, 1997, 22, 724.	3.3	9
110	Femtosecond luminescence study of hydrogen-atom-transfer process in thermochromic crystalline salicylideneanilines. Journal of Luminescence, 1997, 72-74, 508-510.	3.1	9
111	Charge-Transfer Effects in a Strongly Hydrogen-Bonded System:Â Potassium Salt of Acetylenedicarboxylic Acid. The Journal of Physical Chemistry, 1996, 100, 5844-5848.	2.9	7
112	Mid-gap state of the quasi-one-dimensional mott-Hubbard system: charge trasnsfer complex composed of 1, 6-pyrenediamine and tetracyanoquinodimethane(DAP-TCNQ). Synthetic Metals, 1995, 70, 1213-1214.	3.9	1
113	Electromodulation spectroscopy of CdS microcrystallites embedded in polymer films. Solid State Communications, 1992, 83, 969-974.	1.9	19