

Taro Sekikawa

List of Publications by Year in descending order

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113
papers

2,549
citations

186265
28
h-index

189892
50
g-index

116
all docs

116
docs citations

116
times ranked

1771
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear optics in the extreme ultraviolet. <i>Nature</i> , 2004, 432, 605-608.	27.8	328
2	27-fs extreme ultraviolet pulse generation by high-order harmonics. <i>Optics Letters</i> , 1998, 23, 64.	3.3	167
3	Generation of 26 fs optical pulses using induced-phase modulation in a gas-filled hollow fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 985.	2.1	115
4	Second-harmonic generation from a KBe ₂ BO ₃ F ₂ crystal in the deep ultraviolet. <i>Optics Letters</i> , 2002, 27, 637.	3.3	114
5	Femtosecond Fluorescence Study of the Substitution Effect on the Proton Transfer in Thermochromic Salicylideneaniline Crystals. <i>Journal of Physical Chemistry A</i> , 1997, 101, 644-649.	2.5	109
6	Generation of vacuum-ultraviolet light by an optically contacted, prism-coupled KBe ₂ BO ₃ F ₂ crystal. <i>Optics Letters</i> , 2003, 28, 254.	3.3	102
7	Generation of 066-TW pulses at 1??kHz by a Ti:sapphire laser. <i>Optics Letters</i> , 1998, 23, 1384.	3.3	98
8	Measurement of the Intensity-Dependent Atomic Dipole Phase of a High Harmonic by Frequency-Resolved Optical Gating. <i>Physical Review Letters</i> , 2002, 88, 193902.	7.8	91
9	Generation of vacuum-ultraviolet light below 160 nm in a KBBF crystal by the fifth harmonic of a single-mode Ti:sapphire laser. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004, 21, 370.	2.1	88
10	Observation of Two-Photon Above-Threshold Ionization of Rare Gases by xuv Harmonic Photons. <i>Physical Review Letters</i> , 2004, 93, 083903.	7.8	82
11	Pulse Compression of a High-Order Harmonic by Compensating the Atomic Dipole Phase. <i>Physical Review Letters</i> , 1999, 83, 2564-2567.	7.8	75
12	Pulse compression of phase-matched high harmonic pulses from a time-delay compensated monochromator. <i>Optics Express</i> , 2012, 20, 3725.	3.4	59
13	Excited state non-adiabatic dynamics of pyrrole: A time-resolved photoelectron spectroscopy and quantum dynamics study. <i>Journal of Chemical Physics</i> , 2015, 142, 074302.	3.0	59
14	Significant enhancement of high-order harmonics below 10nm in a two-color laser field. <i>Physical Review A</i> , 2006, 73, .	2.5	50
15	Spatiotemporal characterization of single-order high harmonic pulses from time-compensated toroidal-grating monochromator. <i>Optics Express</i> , 2010, 18, 6071.	3.4	50
16	Initial Processes of Proton Transfer in Salicylideneaniline Studied by Time-Resolved Photoelectron Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2971-2979.	2.5	50
17	Frequency-Resolved Optical Gating of Isolated Attosecond Pulses in the Extreme Ultraviolet. <i>Physical Review Letters</i> , 2006, 97, 263901.	7.8	48
18	Femtosecond Fluorescence Study of Proton-Transfer Process in Thermochromic Crystalline Salicylideneanilines. <i>Journal of Physical Chemistry B</i> , 1997, 101, 10645-10652.	2.6	46

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19	Pulse width measurement of high-order harmonics by autocorrelation. Applied Physics B: Lasers and Optics, 2000, 70, 389-394.	2.2	46
20	Frequency-Resolved Optical Gating of Femtosecond Pulses in the Extreme Ultraviolet. Physical Review Letters, 2003, 91, 103902.	7.8	42
21	Circular dichroism in high-order harmonic generation from chiral molecules. Physical Review A, 2018, 98, .	2.5	42
22	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
23	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
24	Generation of subterawatt sub-10-fs blue pulses at 1 μ s ⁻¹ by broadband frequency doubling. Optics Letters, 2003, 28, 1484.	3.3	37
25	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
26	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
27	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
28	Angularly-dispersed optical parametric amplification of optical pulses with one-octave bandwidth toward monocycle regime. Optics Express, 2008, 16, 18345.	3.4	28
29	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
30	Ultrafast Relaxation Dynamics in <i>trans</i> -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
31	Two-photon resonant excitation of a doubly excited state in He atoms by high-harmonic pulses. Optics Express, 2008, 16, 21922.	3.4	23
32	Structural dynamics of photochemical reactions probed by time-resolved photoelectron spectroscopy using high harmonic pulses. Faraday Discussions, 2016, 194, 147-160.	3.2	23
33	Time-Resolved Auger Decay in CsBr Using High Harmonics. Physical Review Letters, 2003, 91, 017401.	7.8	22
34	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
35	Electromodulation spectroscopy of CdS microcrystallites embedded in polymer films. Solid State Communications, 1992, 83, 969-974.	1.9	19
36	All-solid-state 5-kHz 0.2-TW Ti:sapphire laser system. Optics Express, 1999, 5, 318.	3.4	19

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37	Femtosecond extreme-ultraviolet quasi-continuum generation by an intense femtosecond Ti:sapphire laser. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998, 15, 1406.	2.1	18
38	Time-resolved high-harmonic spectroscopy of ultrafast photoisomerization dynamics. <i>Optics Express</i> , 2018, 26, 31039.	3.4	18
39	Generation of high average power, 7.5-fs blue pulses at 5 kHz by adaptive phase control. <i>Applied Physics B: Lasers and Optics</i> , 2005, 81, 13-17.	2.2	16
40	Time-Resolved Photoelectron Spectroscopy of Dissociating 1,2-Butadiene Molecules by High Harmonic Pulses. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2463-2468.	4.6	16
41	Generation of milliwatt narrow-bandwidth vacuum ultraviolet radiation by an all-solid-state tunable high-average-power laser system. <i>Optics Letters</i> , 2001, 26, 831.	3.3	15
42	Generation of ultrashort optical pulses in the 10 fs regime using multicolor Raman sidebands in KTaO ₃ . <i>Optics Letters</i> , 2009, 34, 1837.	3.3	15
43	50-W average-power, 480-fs KrF excimer laser with gated gain amplification. <i>Optics Letters</i> , 2001, 26, 807.	3.3	13
44	Spatial light modulator with an over-two-octave bandwidth from ultraviolet to near infrared. <i>Optics Letters</i> , 2007, 32, 3318.	3.3	13
45	Photoisomerization dynamics study on cis-azobenzene derivative using ultraviolet-to-visible tunable femtosecond pulses. <i>Applied Surface Science</i> , 2009, 255, 9864-9868.	6.1	13
46	High-peak-power femtosecond Cr:forsterite laser system. <i>Applied Physics B: Lasers and Optics</i> , 1999, 68, 169-175.	2.2	11
47	Auger-free luminescence excited by high-order harmonics of a femtosecond Ti:sapphire laser. <i>Journal of Luminescence</i> , 2000, 87-89, 827-829.	3.1	11
48	Femtosecond lattice relaxation induced by inner-shell excitation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 1941.	2.1	11
49	Spin-0 soliton formation in spin-Peierls systems: Charge-transfer complexes DAP-TCNQ and DAP-DMTCNQ. <i>Physical Review B</i> , 1997, 55, 4182-4190.	3.2	9
50	High-power sub-100-fs UV pulse generation from a spectrally controlled KrF laser. <i>Optics Letters</i> , 1997, 22, 724.	3.3	9
51	Femtosecond luminescence study of hydrogen-atom-transfer process in thermochromic crystalline salicylideneanilines. <i>Journal of Luminescence</i> , 1997, 72-74, 508-510.	3.1	9
52	Simultaneous detection of beam pointing and optical phase errors for multiple beams using a quadrant photo detector for high-efficiency coherent beam combining systems. <i>Applied Physics Express</i> , 2019, 12, 102012.	2.4	8
53	Charge-Transfer Effects in a Strongly Hydrogen-Bonded System: A Potassium Salt of Acetylenedicarboxylic Acid. <i>The Journal of Physical Chemistry</i> , 1996, 100, 5844-5848.	2.9	7
54	Ultrabroadband spectral amplitude modulation using a liquid crystal spatial light modulator with ultraviolet-to-near-infrared bandwidth. <i>Applied Optics</i> , 2010, 49, 350.	2.1	7

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55	Real-Time Probing of an Atmospheric Photochemical Reaction by Ultrashort Extreme Ultraviolet Pulses: Nitrous Acid Release from o-Nitrophenol. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 674-679.	4.6	7
56	Ultrafast Photoluminescence Dynamics in a Quasi-one-dimensional Halogen-bridged Mixed-valence Complex [Pt(en) ₂][Pt(en)2Cl ₂](ClO ₄) ₄ . <i>Chemistry Letters</i> , 1997, 26, 1029-1030.	1.3	6
57	Sub-picosecond fluorescence spectroscopy of the M intermediate in the photocycle of bacteriorhodopsin by using up-conversion fluorometry. <i>Chemical Physics Letters</i> , 1999, 305, 15-20.	2.6	6
58	Electron trajectory selection for high harmonic generation inside a short hollow fiber. <i>Optics Express</i> , 2013, 21, 20632.	3.4	5
59	High-average-power femtosecond KrF excimer laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2001, 7, 551-558.	2.9	4
60	Automatic Phase Compensation for Extremely Short Optical-Pulse Generation Using Wavelet Transform. <i>IEEE Journal of Quantum Electronics</i> , 2007, 43, 1218-1226.	1.9	3
61	Electronic and non-adiabatic dynamics: general discussion. <i>Faraday Discussions</i> , 2016, 194, 209-257.	3.2	3
62	Ultrafast Photolysis of o-Nitrophenol Studied by Time-Resolved Photoelectron Spectroscopy. <i>EPJ Web of Conferences</i> , 2019, 205, 09022.	0.3	3
63	Time-resolved diffraction: general discussion. <i>Faraday Discussions</i> , 2021, 228, 161-190.	3.2	2
64	Attosecond Pulse Characterization by XUV Nonlinear Optics. <i>Springer Series in Optical Sciences</i> , 2007, , 27-31.	0.7	2
65	Polarimetry of a single-order circularly polarized high harmonic separated by a time-delay compensated monochromator. <i>Optics Express</i> , 2019, 27, 38735.	3.4	2
66	Intense Optical Field Science. High-Power, Femtosecond Lasers and the Application to Solid State Physics.. <i>The Review of Laser Engineering</i> , 2001, 29, 218-224.	0.0	2
67	Mid-gap state of the quasi-one-dimensional mott-Hubbard system: charge transfer complex composed of 1, 6-pyrenediamine and tetracyanoquinodimethane(DAP-TCNQ). <i>Synthetic Metals</i> , 1995, 70, 1213-1214.	3.9	1
68	Pulse compression of a high-order harmonic. <i>Applied Physics B: Lasers and Optics</i> , 2000, 70, S233-S237.	2.2	1
69	Efficient Compression of Carrier-Envelope Phase-Locked Laser Pulses to 5.2 fs Using an Al-Coated Hollow Fiber. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 010213.	1.5	1
70	Dynamic interference of the high harmonics from photoisomerizing 1,3-cyclohexadiene. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 441.	2.1	1
71	Measurement of High Harmonic Pulses.. <i>The Review of Laser Engineering</i> , 2002, 30, 503-507.	0.0	1
72	Noncollinear Optical Parametric Amplification Pumped by the Third Harmonics of a Ti:sapphire Laser. <i>Springer Series in Chemical Physics</i> , 2009, , 759-761.	0.2	1

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73	Pulse compression of phase-matched high harmonic pulses from a time-delay compensated monochromator. , 2012, , .		1
74	Attosecond pulse characterization by XUV nonlinear optics. , 2006, , .		0
75	<title>Attosecond pulse characterization by XUV nonlinear optics</title>. , 2006, , .		0
76	Efficient compression of carrier-envelope phase-locked laser pulses to 5 fs using an aluminum-coated hollow fiber. , 2007, , .		0
77	Angle-dispersion compensation and phase characterization of multiple CARS signals in LiNbO ₃ towards extremely-short optical pulse generation. , 2007, , .		0
78	Angle-dispersion compensation of multiple CARS signals in LiNbO ₃ towards extremely-short optical pulse generation. , 2007, , .		0
79	Monocycle pulse generation and octave bandwidth amplification. , 2009, , .		0
80	Initial process of proton transfer in salicylideneaniline studied by time-resolved photoelectron spectroscopy. , 2011, , .		0
81	Ultrafast restoration of valence electrons in 1,3-butadiene probed by time-resolved photoelectron spectroscopy with high harmonic pulses. , 2013, , .		0
82	Pulse Compression of Phase-matched High Harmonic Pulses from a Time-Delay Compensated Monochromator. EPJ Web of Conferences, 2013, 41, 01004.	0.3	0
83	Initial Processes of Proton Transfer in Salicylideneaniline Studied by Time-Resolved Photoelectron Spectroscopy. EPJ Web of Conferences, 2013, 41, 02031.	0.3	0
84	Ultrafast and Photodissociation Dynamics of 1,2-Butadiene Studied by Photoelectron Spectroscopy. , 2014, , .		0
85	Tailoring extreme-ultraviolet light. Nature Photonics, 2017, 11, 209-210.	31.4	0
86	Controlling the relaxation pathways by substituent effects in conjugated dienes. , 2017, , .		0
87	Circularly Polarized High Harmonic Generation for Probing Molecular Chirality. Topics in Applied Physics, 2021, , 129-148.	0.8	0
88	Real-Time Probing of Atmospheric Photochemical Reaction by Ultrashort Extreme Ultraviolet Pulses: Nitrous Acid Release from o-Nitrophenol. , 2021, , .		0
89	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
90	Femtosecond time-resolved luminescence spectroscopy of inner-shell excitations by high-order harmonics. , 2000, , .		0

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91	Techniques for Temporal Characterization of Ultrafast XUV Radiation. Springer Series in Optical Sciences, 2004, , 271-283.	0.7	0
92	High Average Power, 7.5-fs Blue Source at 5 kHz. Springer Series in Optical Sciences, 2007, , 481-491.	0.7	0
93	Complete characterization of high harmonic pulses by photoelectron spectral shearing interferometry. , 2008, , .		0
94	Generation of ultrashort optical pulses using multiple coherent anti-Stokes Raman scattering in LiNbO ₃ . , 2008, , .		0
95	Nearly-octave broadband, high-powered optical parametric amplification toward monocycle regime. , 2008, , .		0
96	Two-photon Resonant Excitation of a Doubly Excited State in He atoms by High-harmonic Pulses. , 2009, , .		0
97	Generation of visible 13-fs pulses using Raman-Nath like multiple CARS signals in KTaO ₃ . , 2009, , .		0
98	Mechanism of the Multiple Raman Sidebands Generation in Diamond Pumped by Two Femtosecond Pulses. , 2009, , .		0
99	Efficient selection of high harmonics by a pulse-front-compensated separator. , 2009, , .		0
100	Spatio-Temporal Characterization of Single-Order High Harmonic Pulses Separated by Pulse-Front-Tilt Compensator. , 2010, , .		0
101	The development of angularly-dispersed non-collinear optical parametric amplifier for generation of high power optical pulses in monocycle regime. , 2010, , .		0
102	Spatio-Temporal Characterization of Single-Order High Harmonic Pulses Separated by Pulse-Front-Tilt Compensator. , 2010, , .		0
103	Ultrafast recovery of valence electrons in 1,3-butadiene probed by time-resolved photoelectron spectroscopy with high harmonic pulses. , 2013, , .		0
104	Report on CLEO/QELS'99. The Review of Laser Engineering, 1999, 27, 553-571.	0.0	0
105	Ultrafast and Photodissociation Dynamics of 1,2-Butadiene Studied by Photoelectron Spectroscopy. Springer Proceedings in Physics, 2015, , 44-47.	0.2	0
106	Time-Resolved Photoelectron Spectroscopy of Gaseous Molecule Using Single-Order High Harmonic Pulses. The Review of Laser Engineering, 2015, 43, 833.	0.0	0
107	Bond Selective Probe by Time-Resolved Photoelectron Spectroscopy: Ring-Opening Dynamics of 1,3-Cyclohexadiene. , 2016, , .		0
108	Bond Selective Probe by Time-Resolved Photoelectron Spectroscopy: Ring-Opening Dynamics of 1,3-Cyclohexadiene. , 2016, , .		0

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109	Circular Dichroism in High Harmonic Generation from Chiral Molecules. , 2018, , .		0
110	Ultrafast Photo-Isomerization Dynamics Probed via Time-Resolved High-Harmonic Spectroscopy. , 2018, , .		0
111	Circularly Polarized High Harmonic Generation from Chiral Molecules. , 2018, , .		0
112	Ultrafast Ring-Opening Dynamics of 1,3-cyclohexadiene Probed via Time-Resolved High-Harmonic Spectroscopy. , 2019, , .		0
113	High Harmonic Spectroscopy of Circularly Polarized High Harmonic Generation Process. , 2020, , .		0