

Akira Suda

List of Publications by Year in descending order

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129
papers

2,594
citations

201575

27
h-index

214721

47
g-index

133
all docs

133
docs citations

133
times ranked

1835
citing authors

#	ARTICLE	IF	CITATIONS
1	Apparatus for generation of nanojoule-class water-window high-order harmonics. Review of Scientific Instruments, 2021, 92, 063001.	0.6	9
2	Fully stabilized multi-TW optical waveform synthesizer: Toward gigawatt isolated attosecond pulses. Science Advances, 2020, 6, eaay2802.	4.7	36
3	High efficiency ultrafast water-window harmonic generation for single-shot soft X-ray spectroscopy. Communications Physics, 2020, 3, .	2.0	47
4	Petahertz optical drive with wide-bandgap semiconductor. Nature Physics, 2016, 12, 741-745.	6.5	110
5	Non-collinear high-order harmonic generation in ionized media. , 2015, , .		1
6	Dark state dynamics of fluorescent proteins investigated by fluorescence transients. , 2015, , .		0
7	Characterizing inner-shell transition induced by isolated attosecond pulse. , 2015, , .		0
8	Measurement of Photobleaching Spectra of Fluorescent Proteins Using Nonlinear Fourier-Transform Spectroscopy. The Review of Laser Engineering, 2015, 43, 213.	0.0	0
9	Characterizing inner-shell with spectral phase interferometry for direct electric-field reconstruction. Nature Communications, 2014, 5, 5599.	5.8	23
10	Nonlinear Fourier-transform spectroscopy using ultrabroadband pulses for measurement of photobleaching spectra of fluorescent proteins. , 2014, , .		0
11	Temporal focusing microscopy with structured illumination for super-resolution deep imaging. , 2014, , .		0
12	Nonlinear Fourier-transform spectroscopy using ultrabroadband femtosecond pulses for the measurement of photobleaching of fluorescent proteins. , 2014, , .		0
13	Simultaneous imaging of two-photon absorption and stimulated Raman scattering by spatial overlap modulation nonlinear optical microscopy. Biomedical Optics Express, 2013, 4, 1548.	1.5	8
14	Enhancement of lateral resolution and optical sectioning capability of two-photon fluorescence microscopy by combining temporal-focusing with structured illumination. Biomedical Optics Express, 2013, 4, 2396.	1.5	46
15	Dependence of the photobleaching of fluorescent proteins on the repetition rate of femtosecond light pulses. , 2013, , .		0
16	Spatial Overlap Modulation Nonlinear Optical Microscopy for High-resolution Deep Imaging. , 2013, , .		0
17	Background-free deep imaging by spatial overlap modulation nonlinear optical microscopy. Biomedical Optics Express, 2012, 3, 1594.	1.5	47
18	Effects of Nonlinear Chirp on the Self-Phase Modulation of Ultrashort Optical Pulses. Applied Sciences (Switzerland), 2012, 2, 549-557.	1.3	18

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19	Temporal control of local plasmon distribution on Au nanocrosses by ultra-broadband femtosecond laser pulses and its application for selective two-photon excitation of multiple fluorophores. Optics Express, 2011, 19, 13618.	1.7	11
20	Nonlinear Optical Microscopy Employing Ultra-Broadband Femtosecond Laser Pulses. The Review of Laser Engineering, 2011, 39, 893-903.	0.0	1
21	Nonlinear Optical Microscopy and Spectroscopy Employing Octave Spanning Pulses. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 767-780.	1.9	15
22	Measurement of two-photon excitation spectra of fluorescent proteins with nonlinear Fourier-transform spectroscopy. Applied Optics, 2010, 49, 3323.	2.1	26
23	Measurement of two-photon excitation spectrum used to photoconvert a fluorescent protein (Kaede) by nonlinear Fourier-transform spectroscopy. Biomedical Optics Express, 2010, 1, 687.	1.5	12
24	High-resolution fluorescence microscopy based on a cyclic sequential multiphoton process. Biomedical Optics Express, 2010, 1, 791.	1.5	11
25	Generation of 50 fs, 50 mJ pulses at 1 kHz using hollow-fiber pulse compression. Optics Letters, 2010, 35, 1887.	1.7	146
26	Line-by-line control of 10-THz-frequency-spacing Raman sidebands. Optics Express, 2010, 18, 732.	1.7	9
27	Generation of 5-fs, 5-mJ Pulse Using Hollow-Fiber Pulse Compression at 1 kHz. , 2010, , .		0
28	High-Transmittance Free-Standing Aluminum Extreme Ultraviolet Filter. Japanese Journal of Applied Physics, 2009, 48, 122202.	0.8	8
29	Single-pulse coherent anti-Stokes Raman scattering microscopy employing an octave spanning pulse. Optics Express, 2009, 17, 11259.	1.7	42
30	Multifarious control of two-photon excitation of multiple fluorophores achieved by phase modulation of ultra-broadband laser pulses. Optics Express, 2009, 17, 13737.	1.7	37
31	Broadband extreme ultraviolet multilayer mirror for supercontinuum light at a photon energy of 35-65 eV. Applied Optics, 2009, 48, 5464.	2.1	6
32	Measurement of two-photon excitation spectrum of various fluorophores with Fourier transform nonlinear spectroscopy. , 2009, , .		1
33	XUV multiphoton processes with intense high-order harmonics. Progress in Quantum Electronics, 2008, 32, 43-88.	3.5	67
34	Compression of intense ultrashort laser pulses in a gas-filled planar waveguide. Optics Letters, 2008, 33, 2992.	1.7	24
35	Generation of 5 fs, 0.5 TW pulses focusable to relativistic intensities at 1 kHz. Optics Express, 2008, 16, 10684.	1.7	49
36	Generalization of the Kerr effect for high intensity, ultrashort laser pulses. New Journal of Physics, 2008, 10, 053006.	1.2	42

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37	Pointing stabilization of a high-repetition-rate high-power femtosecond laser for intense few-cycle pulse generation. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	38
38	Fourier-transform spectroscopy combined with a 5-fs broadband pulse for multispectral nonlinear microscopy. <i>Physical Review A</i> , 2008, 77, .	1.0	20
39	Continuum Harmonic Radiation in the Extreme Ultraviolet Region Using Synthesized Sub-10-fs Two-Color Field. <i>Springer Series in Chemical Physics</i> , 2007, , 24-26.	0.2	0
40	Adaptively controlled supercontinuum pulse from a microstructure fiber for two-photon excited fluorescence microscopy. <i>Applied Optics</i> , 2007, 46, 3023.	2.1	19
41	Intense femtosecond pulse shaping using a fused-silica spatial light modulator. <i>Optics Communications</i> , 2007, 270, 305-309.	1.0	7
42	Second-order autocorrelation functions for all-reflective interferometric autocorrelator. <i>Applied Physics B: Lasers and Optics</i> , 2007, 87, 221-226.	1.1	9
43	Optimization of hollow fiber pulse compression using pressure gradients. <i>Applied Physics B: Lasers and Optics</i> , 2007, 89, 209-215.	1.1	15
44	Focusing Intense High-Order Harmonics to a Micron Spot Size. <i>Springer Series in Chemical Physics</i> , 2007, , 183-198.	0.2	2
45	Plasma-induced spectral broadening of high-energy ultrashort laser pulses in a helium-filled multiple-pass cell. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 1946.	0.9	5
46	Generation of extreme ultraviolet continuum radiation driven by a sub-10-fs two-color field. <i>Optics Express</i> , 2006, 14, 7230.	1.7	121
47	Focusing multiple high-order harmonics in the extreme-ultraviolet and soft-x-ray regions by a platinum-coated ellipsoidal mirror. <i>Applied Optics</i> , 2006, 45, 573.	2.1	22
48	Generation of a completely dense femtosecond optical supercontinuum. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, L203-L209.	0.6	1
49	Optical Pulse Compression of Ultrashort Laser Pulses in an Argon-Filled Planar Waveguide. <i>Physical Review Letters</i> , 2006, 97, 153902.	2.9	15
50	Observation of two different types of optical supercontinua: Structured and structureless. <i>Physical Review A</i> , 2006, 74, .	1.0	4
51	Focusing of soft-x-ray high-order harmonics and ablation of metal surface. , 2006, , .		0
52	Coherent control of multiphoton excitation process for biological fluorescence imaging. , 2005, , .		2
53	Control of the spectral broadening of tens-millijoules laser pulses in an argon-filled hollow fiber using a conjugate pressure gradient. <i>Springer Series in Chemical Physics</i> , 2005, , 46-48.	0.2	0
54	Sub-10 fs multi-mJ Ti:sapphire laser system with a pressure-gradient hollow fiber. <i>Springer Series in Chemical Physics</i> , 2005, , 28-30.	0.2	1

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55	Generation of sub-10-fs, 5-mJ-optical pulses using a hollow fiber with a pressure gradient. Applied Physics Letters, 2005, 86, 111116.	1.5	173
56	Sub-10 fs, multimillijoule laser system. Review of Scientific Instruments, 2005, 76, 093114.	0.6	26
57	Control of self-phase modulation and plasma-induced blueshifting of high-energy, ultrashort laser pulses in an argon-filled hollow fiber using conjugate pressure-gradient method. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1757.	0.9	11
58	Nonlinear Optics in Hollow Fibers. The Review of Laser Engineering, 2005, 33, 18-21.	0.0	0
59	A Single-Shot Transient-Grating Autocorrelator for the Measurement of Femtosecond Laser Pulses in the Ultraviolet. Japanese Journal of Applied Physics, 2004, 43, 993-996.	0.8	8
60	ENERGY TRANSMITTANCE AND SPATIAL PHASE IMPROVEMENT OF INTENSE ULTRASHORT LASER PULSES IN GAS-FILLED HOLLOW FIBER USING PRESSURE GRADIENT METHOD. Journal of Nonlinear Optical Physics and Materials, 2004, 13, 291-299.	1.1	1
61	SATURATION OF NONLINEAR SUSCEPTIBILITY. Journal of Nonlinear Optical Physics and Materials, 2004, 13, 301-313.	1.1	11
62	Generation of Strong Optical Field in Soft X-Ray Region by Using High-Order Harmonics. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 1315-1328.	1.9	77
63	Focusing coherent soft-x-ray radiation to a micrometer spot size with an intensity of 10^{14} W/cm ² . Optics Letters, 2004, 29, 1927.	1.7	102
64	Adaptive Control of Two-Photon Excitation of Green Fluorescent Protein with Shaped Femtosecond Pulses. Springer Series in Optical Sciences, 2004, , 449-454.	0.5	0
65	All-reflective interferometric autocorrelator for the measurement of ultra-short optical pulses. Applied Physics B: Lasers and Optics, 2003, 76, 525-530.	1.1	42
66	Tunable narrowband quasi-modeless laser. Optics Communications, 2003, 225, 371-376.	1.0	1
67	Spatiotemporal dynamics of high-intensity femtosecond laser pulses propagating in argon. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 603.	0.9	11
68	Propagation dynamics of femtosecond laser pulses in a hollow fiber filled with argon: constant gas pressure versus differential gas pressure. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 2002.	0.9	60
69	Attenuation of photobleaching in two-photon excitation fluorescence from green fluorescent protein with shaped excitation pulses. Biochemical and Biophysical Research Communications, 2003, 311, 592-596.	1.0	55
70	Adaptive control of two-photon fluorescence from green fluorescent protein by shaped femtosecond excitation pulses. , 2003, , .		0
71	Ionization-induced high-order nonlinear susceptibility. Physical Review A, 2002, 66, .	1.0	19
72	Propagation dynamics of femtosecond laser pulses in argon. Physical Review A, 2002, 66, .	1.0	41

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73	Polarization of multiple rotational Raman sidebands from hydrogen gas by delayed four-wave Raman mixing in the femtosecond regime. <i>Optics Letters</i> , 2002, 27, 1917.	1.7	3
74	Generation and characterization of ultrafast white-light continuum in condensed media. <i>Applied Optics</i> , 2002, 41, 3735.	2.1	107
75	Polarization properties of ultrafast white-light continuum generated in condensed media. <i>Applied Physics Letters</i> , 2002, 80, 923-925.	1.5	23
76	Control of spectral distribution of Raman sidebands in impulsively stimulated rotational Raman scattering. <i>Applied Physics Letters</i> , 2002, 80, 894-896.	1.5	7
77	Explicit control of spectral distribution in impulsively stimulated rotational Raman scattering. <i>Applied Physics B: Lasers and Optics</i> , 2002, 74, s103-s105.	1.1	1
78	A spatial light modulator based on fused-silica plates for adaptive feedback control of intense femtosecond laser pulses. <i>Optics Express</i> , 2001, 9, 2.	1.7	21
79	High-order harmonic and attosecond pulse generations: Bulk media versus hollow waveguides. <i>Physical Review A</i> , 2001, 63, .	1.0	28
80	Koprinkov et al. Reply. <i>Physical Review Letters</i> , 2001, 87, .	2.9	3
81	Generation of Light Bullets. , 2001, , 355-358.		2
82	Compression of self-guided femtosecond laser pulses in solid bulk medium at normal dispersion regime. , 2001, , .		0
83	Interference between stimulated Raman scattering and self-phase modulation in pressurized methane in highly transient femtosecond pump regime. <i>Optics Communications</i> , 2000, 174, 299-304.	1.0	9
84	Self-Compression of High-Intensity Femtosecond Optical Pulses and Spatiotemporal Soliton Generation. <i>Physical Review Letters</i> , 2000, 84, 3847-3850.	2.9	114
85	Generation and propagation of high-order harmonics in high-pressure gases. <i>Physical Review A</i> , 2000, 62, .	1.0	23
86	Attosecond Pulse Generation in He Gas with Few-cycle KrF Driver Pulses. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 6298-6301.	0.8	3
87	Self-Shortening of Femtosecond Laser Pulses Propagating in Rare Gas Medium. <i>Japanese Journal of Applied Physics</i> , 1999, 38, L978-L980.	0.8	6
88	Generation and propagation of attosecond pulses in He gas with sub-10-fs driver pulses. <i>Physical Review A</i> , 1999, 60, 2587-2590.	1.0	18
89	Absorption and oscillation characteristics of a pulsed Cr ⁴⁺ :YAG laser investigated by a double-pulse pumping technique. <i>IEEE Journal of Quantum Electronics</i> , 1999, 35, 1548-1553.	1.0	18
90	High-energy conversion efficiency of transient stimulated Raman scattering in methane pumped by the fundamental of a femtosecond Ti:sapphire laser. <i>Optics Letters</i> , 1999, 24, 1308.	1.7	15

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91	Attosecond Pulse Generation Using High Harmonics of the KrF Laser Driver Pulse. Japanese Journal of Applied Physics, 1998, 37, L733-L736.	0.8	3
92	Attosecond pulse generation using high harmonics in the multicycle regime of the driver pulse. Physical Review A, 1998, 58, 3311-3319.	1.0	31
93	Wideband Tuning of a High-Pressure CO ₂ Laser by means of Intracavity Active Frequency Shift. Japanese Journal of Applied Physics, 1997, 36, 7202-7206.	0.8	1
94	Stable propagation of non-Gaussian beams in a multiple-pass cell. Applied Optics, 1997, 36, 3413.	2.1	2
95	Ortho-deuterium Raman laser using the S ₀ (2) rotational transition in the mid-infrared region. IEEE Journal of Quantum Electronics, 1997, 33, 2174-2177.	1.0	3
96	High-power generation of 16- μ m second-Stokes pulses in an ortho-deuterium Raman laser. Optics Communications, 1997, 133, 185-188.	1.0	5
97	Prompt and precise frequency tuning of a transversely excited CO ₂ laser by means of intracavity active frequency shift. Optics Communications, 1997, 133, 245-251.	1.0	2
98	Vibrational spectroscopy and predissociation of UF ₆ clusters in a supersonic Laval nozzle. Journal of Molecular Structure, 1997, 410-411, 299-304.	1.8	1
99	Vibrational predissociation of UF ₆ clusters in supersonic Laval nozzle flow. Applied Physics B: Lasers and Optics, 1996, 63, 57-61.	1.1	7
100	Enhanced Raman conversion by a two-longitudinal-mode beam in the para-hydrogen Raman laser. Journal of Applied Physics, 1996, 79, 45-48.	1.1	6
101	Annular-Beam Pumped Para-Hydrogen Raman Laser. Japanese Journal of Applied Physics, 1996, 35, 5714-5717.	0.8	1
102	Cross section of supercooled ²³⁸ UF ₆ in multiphoton absorption induced by 16 micrometer Raman-laser radiation. Applied Physics B: Lasers and Optics, 1994, 59, 475-477.	1.1	9
103	Line narrowing and frequency stabilization of high-pressure CO ₂ laser by means of injection locking with multi-isotope master oscillator. IEEE Journal of Quantum Electronics, 1994, 30, 2670-2675.	1.0	3
104	Measurement of Conversion Rate of Para- to Ortho-Hydrogen and Its Regeneration in Raman Laser for Isotope Separation of Uranium.. Nippon Genshiryoku Gakkaishi/Journal of the Atomic Energy Society of Japan, 1994, 36, 1147-1151.	0.0	2
105	Reduction of operating pressure for continuous frequency tuning in transversely excited high-pressure CO ₂ lasers. Optics Letters, 1993, 18, 1807.	1.7	2
106	Intracavity active frequency shift: a novel method of shifting the frequency of pulsed lasers. Optics Letters, 1993, 18, 1982.	1.7	8
107	Gas degradation and O ₂ production in a high repetition rate, transversely excited atmospheric CO ₂ laser. Journal of Applied Physics, 1992, 71, 2025-2027.	1.1	6
108	Characteristics of the high-pressure Ar-Xe laser pumped by an electron beam and an electron-beam sustained discharge. IEEE Journal of Quantum Electronics, 1990, 26, 911-921.	1.0	26

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109	Effects of helium addition to Ar-Xe mixtures in high-pressure atomic-transition xenon lasers. IEEE Journal of Quantum Electronics, 1990, 26, 1304-1308.	1.0	9
110	Measurements of gain, saturation, and line competition in an electron beam pumped high-pressure Ar/Xe laser. Applied Physics Letters, 1989, 54, 1305-1307.	1.5	35
111	Comparative study of low-pressure rare-gas fluoride/chloride lasers excited by a short-pulse electron beam. Journal of Applied Physics, 1988, 64, 1720-1725.	1.1	3
112	Characteristics of an electron beam pumped KrF laser amplifier with an atmospheric-pressure Kr-rich mixture in a strongly saturated region. Applied Physics Letters, 1987, 51, 218-220.	1.5	25
113	Atmospheric Pressure Operation of a KrF Laser Oscillator and Amplifier with a Krypton-Rich Mixture and a Kr/F ₂ Mixture. Fusion Science and Technology, 1987, 11, 548-559.	0.6	10
114	High-efficiency, high-energy operation of an intense electron beam initiated HF chemical laser using a mixture containing a heavy fluoride MoF ₆ . Applied Physics Letters, 1986, 49, 122-124.	1.5	3
115	Performance characteristics of the ArF excimer laser using a low-pressure argon-rich mixture. Journal of Applied Physics, 1986, 60, 3791-3793.	1.1	13
116	High-efficiency multikilojoule deuterium fluoride (DF) chemical lasers initiated by intense electron beams. Journal of Applied Physics, 1986, 59, 324-326.	1.1	7
117	High-efficiency ArF laser using an atmospheric pressure argon-rich mixture pumped by an intense electron beam. , 1986, , .		0
118	Kinetic Studies of the Electron-Beam-Pumped ArF Laser Using an Ne/Ar/F ₂ Mixture. Japanese Journal of Applied Physics, 1985, 24, 1183-1188.	0.8	9
119	Experimental observation of unstable resonator mode evolution in a high-power KrF laser. Journal of Applied Physics, 1985, 58, 3987-3990.	1.1	21
120	Properties of a KrF laser with atmospheric-pressure Kr-rich mixture pumped by an electron beam. Journal of Applied Physics, 1985, 58, 1129-1134.	1.1	9
121	Atmospheric pressure operation of an electron beam excited KrF laser using Kr/F ₂ mixtures. Applied Physics Letters, 1984, 45, 1165-1167.	1.5	23
122	Theoretical evaluation of electron-beam-excited KrF lasers using argon-free mixtures of one atmosphere. Applied Physics Letters, 1984, 45, 305-307.	1.5	27
123	Novel Operational Regime Of High-Efficiency KrF Lasers. Proceedings of SPIE, 1984, , .	0.8	2
124	Ar and Ne Diluent Gas Effects on Output Performance of Electron-Beam-Excited Xe Cl Lasers. The Review of Laser Engineering, 1984, 12, 11-20.	0.0	3
125	Theoretical simulation of electron-beam-excited xenon-chloride (XeCl) lasers. IEEE Journal of Quantum Electronics, 1983, 19, 1587-1600.	1.0	81
126	Theoretical analysis of electron-beam-excited KrF laser performance: New F ₂ concentration optimization. IEEE Journal of Quantum Electronics, 1983, 19, 232-242.	1.0	19

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127	Theoretical evaluation of the rare-gas diluent effects for an electron-beam-excited XeCl laser. Applied Physics Letters, 1983, 42, 766-768.	1.5	4
128	Properties of HF Chemical Laser Initiated by Inclined Electron-Beams. The Review of Laser Engineering, 1983, 11, 825-833.	0.0	0
129	Stabilizing the carrier-envelope phase of an amplified Ti:sapphire laser pulse to a noise level of sub-100 mrad. Journal of the Optical Society of America B: Optical Physics, 0, , .	0.9	0