

Kazuhiko Misawa

List of Publications by Year in descending order

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112
papers

1,705
citations

331259

21
h-index

288905

40
g-index

117
all docs

117
docs citations

117
times ranked

1572
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond nonlinear optical dynamics of excitons in J-aggregates. <i>Chemical Physics Letters</i> , 1994, 218, 67-72.	1.2	214
2	New fabrication method for highly oriented J-aggregates dispersed in polymer films. <i>Applied Physics Letters</i> , 1993, 63, 577-579.	1.5	143
3	Terahertz polarization pulse shaping with arbitrary field control. <i>Nature Photonics</i> , 2013, 7, 724-731.	15.6	120
4	Size effects on luminescence dynamics of CdS microcrystallites embedded in polymer films. <i>Chemical Physics Letters</i> , 1991, 183, 113-118.	1.2	73
5	Femtosecond x-ray absorption spectroscopy with hard x-ray free electron laser. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	70
6	Superradiance quenching by confined acoustic phonons in chemically prepared CdS microcrystallites. <i>Journal of Chemical Physics</i> , 1991, 94, 4131-4140.	1.2	69
7	Ultrafast exciton and excited-exciton dynamics in J-aggregates of three-level porphyrin molecules. <i>Journal of Chemical Physics</i> , 1999, 110, 5844-5850.	1.2	64
8	Giant static dipole moment change on electronic excitation in highly oriented J-aggregates. <i>Chemical Physics Letters</i> , 1994, 220, 251-256.	1.2	60
9	Wave-packet dynamics in a cyanine dye molecule excited with femtosecond chirped pulses. <i>Journal of Chemical Physics</i> , 2000, 113, 7546-7553.	1.2	59
10	Generation of a 10.6-THz ultrahigh-repetition-rate train by synthesizing phase-coherent Raman-sidebands. <i>Optics Express</i> , 2005, 13, 5628.	1.7	56
11	Ultraviolet photochemical reaction of $[\text{Fe}(\text{III})(\text{C}_2\text{O}_4)_3]^{3-}$ 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.	0.9	52
12	Femtosecond time-resolved X-ray absorption spectroscopy of liquid using a hard X-ray free electron laser in a dual-beam dispersive detection method. <i>Optics Express</i> , 2014, 22, 1105.	1.7	48
13	Femtosecond time-resolved X-ray absorption spectroscopy of anatase TiO ₂ nanoparticles using XFEL. <i>Structural Dynamics</i> , 2017, 4, 044033.	0.9	47
14	Femtosecond Sagnac interferometer for phase spectroscopy. <i>Optics Letters</i> , 1995, 20, 1550.	1.7	46
15	Transport properties of photoexcited carriers in a fibonacci superlattice. <i>Solid State Communications</i> , 1990, 75, 955-961.	0.9	38
16	Hierarchical structure of one-dimensional J-aggregates. <i>Journal of Luminescence</i> , 1997, 72-74, 38-40.	1.5	32
17	Wavelength and polarization dependence of spectral hole-burning efficiency in highly oriented J-aggregates. <i>Chemical Physics Letters</i> , 1995, 240, 210-215.	1.2	30
18	Femtosecond X-ray emission study of the spin cross-over dynamics in haem proteins. <i>Nature Communications</i> , 2020, 11, 4145.	5.8	29

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19	Determination of complex tensor components of electro-optic constants of dye-doped polymer films with a Mach-Zehnder interferometer. <i>Applied Physics Letters</i> , 1994, 65, 1605-1607.	1.5	24
20	Applications of polarization-shaped femtosecond laser pulses. <i>Advances in Physics: X</i> , 2016, 1, 544-569.	1.5	23
21	Quenching of the superradiative decay by confined acoustic-phonons in CdS microcrystallites. <i>Journal of Luminescence</i> , 1991, 48-49, 269-272.	1.5	21
22	Complex electro-optic constants of dye-doped polymer films determined with a Mach-Zehnder interferometer. <i>Journal of Applied Physics</i> , 1995, 77, 4935-4940.	1.1	21
23	Measurement of dephasing time using incoherent light in the Kerr shutter configuration. <i>Optics Letters</i> , 1989, 14, 453.	1.7	20
24	Large gap in CuCl semiconductor microcrystallites. <i>Physical Review B</i> , 1993, 47, 16024-16027.	1.1	18
25	Magnetic field dependence of optical absorption in Si nanocrystallites: A quantum size effect. <i>Solid State Communications</i> , 1994, 92, 665-668.	0.9	18
26	Superradiative emission from CdS microcrystallites. <i>Journal of Crystal Growth</i> , 1992, 117, 617-621.	0.7	16
27	New model of excitonic bands and molecular arrangement of highly oriented J-aggregates in polymer films prepared by a novel method. <i>Journal of Luminescence</i> , 1994, 60-61, 812-815.	1.5	16
28	Franz-Keldysh oscillation in the interband absorption spectrum of one-dimensional bis(dimethylglyoximate)platinum(II) complex. <i>Chemical Physics Letters</i> , 1999, 302, 609-614.	1.2	15
29	Efficient heterodyne CARS measurement by combining spectral phase modulation with temporal delay technique. <i>Optics Express</i> , 2011, 19, 11463.	1.7	14
30	Large static dipole moment in substituted polyacetylenes obtained by electroabsorption. <i>Chemical Physics Letters</i> , 2000, 318, 499-504.	1.2	13
31	Sensitive femtosecond wave-packet spectrometer. <i>Optics Communications</i> , 2006, 259, 723-726.	1.0	13
32	Rapid motion capture of mode-specific quantum wave packets selectively generated by phase-controlled optical pulses. <i>Journal of Chemical Physics</i> , 2007, 127, 054104.	1.2	13
33	Single-beam phase-modulated stimulated Raman scattering microscopy with spectrally focused detection. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1004.	0.9	13
34	Invited Article: Spectral focusing with asymmetric pulses for high-contrast pump-probe stimulated Raman scattering microscopy. <i>APL Photonics</i> , 2018, 3, 092405.	3.0	13
35	Electroabsorption of a new urethane-substituted polydiacetylene PDA-5BCMU-4A in a film. <i>Chemical Physics Letters</i> , 1996, 255, 385-392.	1.2	12
36	Interferometric polarization pulse shaper stabilized by an external laser diode for arbitrary vector field shaping. <i>Review of Scientific Instruments</i> , 2009, 80, 123107.	0.6	12

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37	65-fs Yb-doped fiber laser system with gain-narrowing compensation. <i>Optics Express</i> , 2015, 23, 6809.	1.7	12
38	Femtosecond inverse Raman spectrum of molecular J-aggregates. <i>Journal of Raman Spectroscopy</i> , 1995, 26, 553-559.	1.2	11
39	Three-level picture for chirp-dependent fluorescence yields under femtosecond optical pulse irradiation. <i>Applied Physics Letters</i> , 2003, 82, 2749-2751.	1.5	11
40	Femtosecond chirp-variable apparatus using a chirped mirror pair for quantum coherent control. <i>Optics Communications</i> , 2004, 239, 181-186.	1.0	9
41	Nonlinear optical response of wave packets on quantized potential energy surfaces. <i>Journal of Chemical Physics</i> , 2007, 127, 194304.	1.2	9
42	In vivomolecular labeling of halogenated volatile anesthetics via intrinsic molecular vibrations using nonlinear Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2011, 134, 024525.	1.2	9
43	Optical properties of semiconductor quantum dots in magnetic fields. <i>Journal of Luminescence</i> , 1996, 70, 144-157.	1.5	8
44	Multiple reflection correction in the determination of the complex electro-optic constant using a Mach-Zehnder interferometer. <i>Chemical Physics Letters</i> , 1997, 266, 153-160.	1.2	7
45	Direct label-free measurement of the distribution of small molecular weight compound inside thick biological tissue using coherent Raman microspectroscopy. <i>Scientific Reports</i> , 2015, 5, 13868.	1.6	7
46	Femtosecond Nonlinear Optical Response in J-Aggregates: Exciton Dynamics and Stimulated Raman Process. , 1996, , 161-180.		6
47	Possibility of Analyzing the Type of Impurities in Semiconductors by Application of Bistability in Luminescence. <i>Japanese Journal of Applied Physics</i> , 1994, 33, L776-L778.	0.8	5
48	Quantum efficiency of the hole formation in highly oriented J-aggregates measured by the polarization dependent hole burning. <i>Journal of Luminescence</i> , 1995, 64, 239-243.	1.5	5
49	Hierarchical Structure in Oriented J-aggregates. , 1996, , 41-65.		5
50	Generation and manipulation of polarization-twisting dual pulses with a high degree of freedom. <i>Optics Letters</i> , 2020, 45, 6663.	1.7	5
51	41-fs, 35-nJ, Green Pulse Generation from a Yb-doped Fiber Laser System. <i>Optics Express</i> , 2017, 25, 2115.	1.7	4
52	Time-course quantitative mapping of caffeine within the epidermis, using high-contrast pump-probe stimulated Raman scattering microscopy. <i>Skin Research and Technology</i> , 2022, 28, 47-53.	0.8	4
53	Study of excitons in microcrystallites: clearly resolved peaks by modulation spectroscopy and femtosecond dephasing resolved with incoherent light. , 1990, 1216, 105.		3
54	Periodic structures in difference phase and transmission spectra studied by a femtosecond Sagnac interferometer. <i>Optics Communications</i> , 2001, 188, 1-9.	1.0	3

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55	Femtosecond Sagnac interferometer for the measurement of third-order nonlinear optical susceptibilities. , 2003, , .		3
56	Femtosecond time-resolved dispersion relation of complex nonlinear refractive index in a semiconductor quantum well. Applied Physics Letters, 2004, 85, 3678-3680.	1.5	3
57	Measuring the Distribution of Taurine Molecule Inside Biological Tissue via Intrinsic Molecular Vibrations using Nonlinear Raman Spectroscopy. Biophysical Journal, 2015, 108, 626a.	0.2	3
58	Label-free skin penetration analysis using time-resolved, phase-modulated stimulated Raman scattering microscopy. Biomedical Optics Express, 2021, 12, 6545.	1.5	3
59	All-optical material characterization techniques and optical data links by the application of bistability in luminescence. Physica Scripta, 1995, 51, 541-544.	1.2	2
60	Novel interferometers for femtosecond phase spectroscopy. Journal of Nuclear Materials, 1997, 248, 386-391.	1.3	2
61	Femtosecond wave packet engineering in a cyanine dye molecule. , 2002, 4798, 11.		2
62	Wave packet engineering using a phase-programmable femtosecond optical source. Journal of Modern Optics, 2004, 51, 2685-2692.	0.6	2
63	Improved signal extraction method for single-pulse heterodyne CARS spectroscopy. , 2010, , .		2
64	ULTRAHIGH-REPETITION-RATE PULSE TRAIN WITH ABSOLUTE-PHASE CONTROL PRODUCED BY AN ADIABATIC RAMAN PROCESS. , 2010, , .		2
65	Femtosecond X-ray spectroscopy of haem proteins. Faraday Discussions, 2021, 228, 312-328.	1.6	2
66	Magnetic Field Effects in Direct- and Indirect-Gap Semiconductor Quantum Dots. Japanese Journal of Applied Physics, 1995, 34, 125.	0.8	1
67	Transmittance Bistability of CdS at 632.8 nm Induced by the 514.5 nm Line. Japanese Journal of Applied Physics, 1995, 34, L1452-L1454.	0.8	1
68	Phase-Contrast CARS Spectroscopy with Rapid Phase Modulation. , 2010, , .		1
69	The terahertz polarization pulse shaping. , 2013, , .		1
70	Photoisomerization of All- <i>trans</i> Retinal Triggered with Femtosecond Phase-locked Pulse Pairs. Journal of the Physical Society of Japan, 2008, 77, 014708.	0.7	1
71	Coherent control over two-dimensional lattice vibrational trajectories in $\hat{\pm}$ -quartz using polarization pulse shaping. , 2014, , .		1
72	Two-dimensional molecular imaging by coherent Raman spectroscopy with quadrature phase modulation. , 2014, , .		1

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73	Adiabatic driving of maximal-coherence in molecular ensemble and its application to optical devices. The Review of Laser Engineering, 2006, 34, 1-2.	0.0	1
74	20-fps motion capture of phase-controlled wave-packets for adaptive quantum control. Springer Series in Chemical Physics, 2007, , 175-177.	0.2	1
75	Polarization envelope helicity dependent photovoltage in GaAs/Al _{0.3} Ga _{0.7} As modulation-doped quantum well. Optics Express, 2019, 27, 28091.	1.7	1
76	Ultrafast Dephasing Measurement by Transient Four-Wave Mixing. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1990, 182, 125-137.	0.3	0
77	Ultrafast nonlinear optical properties of J-aggregates and new preparation method of oriented films at room temperature. , 1994, 2144, 128.		0
78	Single-shot Measurement of Phase Shift using a Spectral Phase Interferometer. , 0, , .		0
79	Development of Dual-Wavelength Injection-Locked Pulsed Laser and its Application to Generation of an Ultrahigh- Repetition-Rate Train of Ultrashort Pulses. , 2006, , MB14.		0
80	10-THz repetition-rate ultrashort-pulse generation by synthesizing phase-coherent Raman-sidebands. , 2006, , .		0
81	Femtosecond wave-packet interferometry in all-trans retinal analyzed by high-performance liquid chromatography. , 2007, , .		0
82	ã½ç,ã¼ã¼;æŠèì“ã,ç”ã,ãÿæ—è çÿãfãf«ã,1ãfããf¼ã,ããf¼ã...%æ°ã®é—ç™°ã•ã...%ãCE—ã áãçæã^ã¼ã¼. Kobunshi, 2007, 56, 50.		0
83	Arbitrary vector shaping of femtosecond pulses by a phase-locked mach-zehnder interferometer. , 2009, , .		0
84	Vibrational wave-packet control in cyanine dye molecules with free and restricted conjugated backbones. , 2009, , .		0
85	Vibrational Wave-Packet Engineering by Rapid-Scanning Wave-Packet Spectroscopy. The Review of Laser Engineering, 2010, 38, 125-129.	0.0	0
86	Heterodyne CARS measurement of inhalational anesthetic molecules using adaptively phase-modulated femtosecond pulses. , 2011, , .		0
87	Extreme nonresonant background reduction for rapid phase-modulation CARS spectroscopy by phase sensitive detection. , 2011, , .		0
88	In Vivo Molecular Labeling of Halogenated Volatile Anesthetics via Intrinsic Molecular Vibrations using Nonlinear Raman Spectroscopy. Biophysical Journal, 2012, 102, 589a.	0.2	0
89	Direct visualization of a small-molecule drug by phase-modulated stimulated Raman scattering microscopy. , 2017, , .		0
90	Femtosecond Time-resolved X-ray Absorption Spectroscopy of Liquids Using the SPring-8 Angstrom		

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91	Diffusion measurement of anesthetic molecules using coherent anti-stokes Raman scattering microscopy. , 2017, , .		0
92	Polarization twisting dual-pulse generation. , 2021, , .		0
93	EXCITED- AND GROUND-STATE WAVE PACKET DYNAMICS IN ORGANIC MATERIALS INDUCED BY FEMTOSECOND CHIRPED PULSES. , 2000, , .		0
94	Study on Semiconductor Materials for Optical Phase-Modulating Devices by Time-Resolved Interferometry. The Review of Laser Engineering, 2004, 32, 711-716.	0.0	0
95	20-fps motion capture of phase-controlled wave-packets for adaptive quantum control. , 2006, , .		0
96	Fourier-synthesis of phase coherent Raman sidebands and full characterization of the temporal waveform. , 2007, , .		0
97	Real-time wave-packet engineering using a sensitive wave-packet spectrometer and a pulse-shaper. Springer Series in Chemical Physics, 2009, , 991-993.	0.2	0
98	In vivo Molecular Labeling of Halogenated Volatile Anesthetics using Adaptively Phase-modulated Femtosecond Pulses. , 2012, , .		0
99	Femtosecond time-resolved X-ray absorption spectroscopy by a multichannel spectral detection using a hard X-ray free electron laser. , 2014, , .		0
100	Broadband Yb-doped Fiber Laser System with Gain-Narrowing Compensation. , 2014, , .		0
101	Excitonic Superradiance and Its Quenching by Confined-Acoustic Phonons in CdS Microcrystallites. , 1992, , 153-159.		0
102	Anomalous 1-ps relaxation of excited exciton in J-aggregates of three-level molecules. Springer Series in Chemical Physics, 1998, , 517-519.	0.2	0
103	Coherent Control Over Two-Dimensional Lattice Vibrational Trajectories in $\hat{\Gamma}$ -Quartz Using Polarization Pulse Shaping. Springer Proceedings in Physics, 2015, , 206-209.	0.1	0
104	Ultrafast Green Pulse Generation from Yb-doped Fiber Laser System. , 2016, , .		0
105	Coherent Raman Microspectroscopy for Non-Contact and Non-Destructive Measurements of Carrier Concentrations in Wide-Bandgap Semiconductors. , 2018, , .		0
106	Time-resolved circular-dichroism spectrometer for coherent control experiments. , 2018, , .		0
107	High-Pressure Gas Measurement Using Time-Resolved Rotational CARS with Temporally Asymmetric Pulses. , 2020, , .		0
108	Detection of Viral Infection and Subsequent Apoptosis in Cells by Raman Scattering Microspectroscopy. , 2020, , .		0

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109	High-Contrast Depth Imaging of Skin Moisturizing Agent Using Phase-Modulated Stimulated Raman Scattering. , 2020, , .		0
110	Bacterial inactivation in platelet concentrates using ultrashort pulsed laser. , 2021, , .		0
111	Quantitative measurement of low-concentration analytes using Raman spectroscopy during droplet evaporation for therapeutic drug monitoring. , 2021, , .		0
112	Analysis of sunscreen penetration in skin using phase-modulated stimulated Raman scattering microscopy. , 2022, , .		0