

# Sunao Kurimura

## List of Publications by Year in descending order

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74  
papers

2,517  
citations

159585

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189892

50  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1638  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of thermal stress on continuous-wave second-harmonic generation in periodically poled LiTaO <sub>3</sub> crystals. Optics Express, 2022, 30, 21258.	3.4	0
2	Efficient generation of ultra-broadband parametric fluorescence using chirped quasi-phase-matched waveguide devices. Optics Express, 2021, 29, 21615.	3.4	14
3	0.54 $\mu$ m resolution two-photon interference with dispersion cancellation for quantum optical coherence tomography. Scientific Reports, 2016, 5, 18042.	3.3	49
4	Advanced quasi-phase-matched materials and technologies. , 2016, , .		0
5	Rate-equation model of light-induced heating in LiNbO <sub>3</sub> -type crystals under high-average-power laser irradiation. Optical Materials Express, 2016, 6, 396.	3.0	7
6	RGB emitters by optical parametric generation using nonlinear waveguide. , 2015, , .		0
7	Induced heating by nonlinear absorption in LiNbO <sub>3</sub> -type crystals under continuous-wave laser irradiation. Optical Materials, 2015, 40, 10-13.	3.6	13
8	Parasitic-light-suppressed quasi-phase-matched optical parametric oscillation device. Optics Express, 2014, 22, 5209.	3.4	4
9	Thermal characteristics of second harmonic generation by phase matched calorimetry. Optics Express, 2014, 22, 18268.	3.4	7
10	Thermal management for high-power wavelength conversion. , 2013, , .		0
11	Sum-frequency-photon generation from an entangled photon pair. , 2013, , .		0
12	Broadband frequency correlated photon pairs using a chirped-QPM device. , 2013, , .		0
13	Noncollinear parametric fluorescence by chirped quasi-phase matching for monocycle temporal entanglement. Optics Express, 2012, 20, 25228.	3.4	55
14	Low-dispersion characteristics of silica-based graded refractive index lens for laser display optical system. Optical Review, 2012, 19, 419-421.	2.0	1
15	High-gain, wide-dynamic-range parametric interaction in Mg-doped LiNbO <sub>3</sub> quasi-phase-matched adhered ridge waveguide. Optics Express, 2011, 19, 11867.	3.4	41
16	134- $\mu$ m Nd:YVO <sub>4</sub> laser mode-locked by SHG-lens formation in periodically-poled stoichiometric lithium tantalate. Optics Express, 2011, 19, 21754.	3.4	13
17	Thermal performance in high power SHG characterized by phase-matched calorimetry. Optics Express, 2011, 19, 22588.	3.4	49
18	Quartz revisits nonlinear optics: twinned crystal for quasi-phase matching [Invited]. Optical Materials Express, 2011, 1, 1367.	3.0	46

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19	Safety in Laser Display and Related Laws and Regulations. The Review of Laser Engineering, 2011, 39, 386-389.	0.0	0
20	Progress in Wavelength Conversion Crystals. The Review of Laser Engineering, 2011, 39, 319-325.	0.0	0
21	Non-Gaussian operation based on photon subtraction using a photon-number-resolving detector at a telecommunications wavelength. Nature Photonics, 2010, 4, 655-660.	31.4	91
22	High-power picosecond Nd:GdVO <sub>4</sub> laser mode locked by SHG in periodically poled stoichiometric lithium tantalate. Optics Letters, 2010, 35, 1016.	3.3	32
23	640-Gbit/s Data Transmission and Clock Recovery Using an Ultrafast Periodically Poled Lithium Niobate Device. Journal of Lightwave Technology, 2009, 27, 205-213.	4.6	40
24	Ultrafast Phase Comparator for Phase-Locked Loop-Based Optoelectronic Clock Recovery Systems. Journal of Lightwave Technology, 2009, 27, 2439-2448.	4.6	4
25	Control of Microdomain Structures. The Review of Laser Engineering, 2009, 37, 254-263.	0.0	0
26	Effect of subgrain boundaries on domain-inverted structure in periodically poled near-stoichiometric LiTaO <sub>3</sub> crystal. Optical Materials, 2008, 31, 276-279.	3.6	3
27	Joint Temporal Density Measurements for Two-Photon State Characterization. Physical Review Letters, 2008, 101, 153602.	7.8	78
28	Time-resolved single-photon detection by femtosecond upconversion. Optics Letters, 2008, 33, 2257.	3.3	64
29	320 Gbps to 10 GHz sub-clock recovery using a PPLN-based opto-electronic phase-locked loop. Optics Express, 2008, 16, 5007.	3.4	11
30	Thermal effects in high-power CW second harmonic generation in Mg-doped stoichiometric lithium tantalate. Optics Express, 2008, 16, 11294.	3.4	75
31	3D IMAGING OF INVERTED DOMAIN STRUCTURES BY CONFOCAL SHG INTERFERENCE MICROSCOPE. Integrated Ferroelectrics, 2008, 98, 156-160.	0.7	0
32	Violet Light Generation in Quasi-Phase-Matched Adhered Ridge Waveguide. Japanese Journal of Applied Physics, 2008, 47, 4586.	1.5	6
33	Opto-Electronic Phase-Locked Loop using Adhered-Ridge-Waveguide Periodically-Poled Lithium Niobate for High-Bit-Rate Clock Recovery. , 2008, , .		0
34	Effects of dispersion on squeezing and photon statistics of down-converted light. Physical Review A, 2008, 77, .	2.5	4
35	Ferroelectric Properties of 1 mol% Mg-Doped Stoichiometric Lithium Niobate. Japanese Journal of Applied Physics, 2007, 46, 1549-1552.	1.5	8
36	Bright narrowband source of photon pairs at optical telecommunication wavelengths using a type-II periodically poled lithium niobate waveguide. Optics Express, 2007, 15, 12769.	3.4	86

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37	Three-dimensional observations of periodically poled domains in a LiTaO <sub>3</sub> quasiphase matching crystal by second harmonic generation tomography. Applied Physics Letters, 2007, 91, 182904.	3.3	39
38	Quasi-phase-matched adhered ridge waveguide in LiNbO <sub>3</sub> . Applied Physics Letters, 2006, 89, 191123.	3.3	107
39	Green-pumped high-power optical parametric oscillator based on periodically poled MgO-doped stoichiometric LiTaO <sub>3</sub> . Optics Letters, 2006, 31, 3632.	3.3	13
40	Continuous-Wave 2 W Green Light Generation in Periodically Poled Mg-Doped Stoichiometric Lithium Tantalate. Japanese Journal of Applied Physics, 2006, 45, L907-L909.	1.5	16
41	Generation of 6 $\mu\text{m}$ Radiation by Optical Parametric Oscillator and Difference Frequency Generation in Periodically Poled LiNbO <sub>3</sub> . Japanese Journal of Applied Physics, 2006, 45, 111-115.	1.5	4
42	Effective Aperture in Periodically Poled Mg-Doped Stoichiometric LiTaO <sub>3</sub> for Quasi-Phase-Matched Optical Parametric Oscillation. Japanese Journal of Applied Physics, 2006, 45, 4064-4067.	1.5	7
43	Stable high-power green light generation with a periodically poled stoichiometric lithium tantalate. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 120, 146-149.	3.5	14
44	Control of coercive field in lithium niobate crystals with repeated polarization reversal. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 120, 150-154.	3.5	8
45	Nanosecond pulsed laser energy and thermal field evolution during second harmonic generation in periodically poled LiNbO <sub>3</sub> crystals. Journal of Applied Physics, 2005, 98, 113103.	2.5	32
46	Thermal inhibition of high-power second-harmonic generation in periodically poled LiNbO <sub>3</sub> and LiTaO <sub>3</sub> crystals. Applied Physics Letters, 2005, 87, 131101.	3.3	85
47	Periodically poled near-stoichiometric lithium tantalate for optical parametric oscillation. Applied Physics Letters, 2004, 84, 1662-1664.	3.3	55
48	Efficient optical parametric oscillation based on periodically poled 1.0 mol% MgO-doped stoichiometric LiTaO <sub>3</sub> . Applied Physics Letters, 2004, 85, 5134-5136.	3.3	57
49	Optical pulse compression using cascaded quadratic nonlinearities in periodically poled lithium niobate. Applied Physics Letters, 2004, 84, 1055-1057.	3.3	49
50	Periodic Twinning in Crystal Quartz for Optical Quasi-Phase Matched Secondary Harmonic Conversion. Journal of Materials Research, 2004, 19, 969-972.	2.6	22
51	Stable High-Power Green Light Generation with Thermally Conductive Periodically Poled Stoichiometric Lithium Tantalate. Japanese Journal of Applied Physics, 2004, 43, L1265-L1267.	1.5	74
52	Crystal growth and characterization of titanium-doped near-stoichiometric LiNbO <sub>3</sub> . Journal of Crystal Growth, 2004, 264, 339-345.	1.5	13
53	Efficient second-harmonic generation of ultrafast pulses in periodically poled KNbO <sub>3</sub> . Applied Physics Letters, 2004, 85, 5839-5841.	3.3	12
54	Application of periodically poled stoichiometric LiTaO <sub>3</sub> for efficient optical parametric chirped pulse amplification at 1 kHz. Optics Express, 2004, 12, 6421.	3.4	30

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55	Powerful red-green-blue laser source pumped with a mode-locked thin disk laser. Optics Letters, 2004, 29, 1921.	3.3	119
56	Group-velocity-matched cascaded quadratic nonlinearities of femtosecond pulses in periodically poled MgO:LiNbO <sub>3</sub> . Optics Letters, 2003, 28, 1442.	3.3	8
57	Efficient frequency doubling of a femtosecond pulse with simultaneous group-velocity matching and quasi phase matching in periodically poled, MgO-doped lithium niobate. Applied Physics Letters, 2003, 82, 3388-3390.	3.3	38
58	Periodic Poling in 3-mm-Thick MgO:LiNbO <sub>3</sub> Crystals. Japanese Journal of Applied Physics, 2003, 42, L108-L110.	1.5	39
59	Refractive-Index Changes of Titanium-Doped Near-Stoichiometric LiNbO <sub>3</sub> Crystals. Japanese Journal of Applied Physics, 2003, 42, L1145-L1147.	1.5	3
60	Broadband Second Harmonic Generation with Simultaneous Group-Velocity Matching and Quasi-Phase Matching. Japanese Journal of Applied Physics, 2003, 42, L821-L823.	1.5	2
61	Thermal-birefringence-induced depolarization in Nd:YAG ceramics. Optics Letters, 2002, 27, 234.	3.3	92
62	Broadband quasi-phase-matched second-harmonic generation in MgO-doped periodically poled LiNbO <sub>3</sub> at the communications band. Optics Letters, 2002, 27, 1046.	3.3	127
63	Tunable frequency-doubled Yb:YAG microchip lasers. Optical Materials, 2002, 19, 169-174.	3.6	54
64	SHG interference microscope as a tool of nondestructive observation of ferroelectric 180° domain structures. Ferroelectrics, 2001, 253, 115-124.	0.6	8
65	High Average Power Diode End-Pumped Composite Nd:YAG Laser Passively Q-switched by Cr <sup>4+</sup> :YAG Saturable Absorber. Japanese Journal of Applied Physics, 2001, 40, 1253-1259.	1.5	95
66	Optical properties and laser characteristics of highly Nd <sup>3+</sup> -doped Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> ceramics. Applied Physics Letters, 2000, 77, 939.	3.3	178
67	Application of the second harmonic generation microscope to nondestructive observation of periodically poled ferroelectric domains in quasi-phase-matched wavelength converters. Journal of Applied Physics, 1997, 81, 369-375.	2.5	103
68	Domain inversion in ferroelectric MgO:LiNbO <sub>3</sub> by applying electric fields. Applied Physics Letters, 1996, 69, 1565-1567.	3.3	165
69	Domain Inversion by an Electron-Beam-Induced Electric Field in MgO:LiNbO <sub>3</sub> , LiNbO <sub>3</sub> and LiTaO <sub>3</sub> . Japanese Journal of Applied Physics, 1996, 35, L31-L33.	1.5	24
70	Second harmonic generation in optical waveguides. Integrated Ferroelectrics, 1995, 7, 15-23.	0.7	2
71	Proposal of a Modulator-Integrated Structure in Quasi-Phase-Matched Second Harmonic Generation. Japanese Journal of Applied Physics, 1994, 33, 5457-5459.	1.5	10
72	Method for Separating Linear and Circular Photogalvanic Effects and Its Application to Ferroelectric Lead Germanate. Japanese Journal of Applied Physics, 1994, 33, 5453-5456.	1.5	4

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73	Emission Characteristics of Internally Self-Pumped Phase-Conjugate Wave in Photorefractive KNbO <sub>3</sub> :Fe and BaTiO <sub>3</sub> Crystals. Japanese Journal of Applied Physics, 1993, 32, 4307-4310.	1.5	6
74	Generation of Optical Phase-Conjugate Wave from Bi <sub>12</sub> SiO <sub>20</sub> . Japanese Journal of Applied Physics, 1989, 28, 147.	1.5	2