

Ichiro Shoji

List of Publications by Year in descending order

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85
papers

2,272
citations

257450

24
h-index

265206

42
g-index

86
all docs

86
docs citations

86
times ranked

1729
citing authors

#	ARTICLE	IF	CITATIONS
1	Absolute scale of second-order nonlinear-optical coefficients. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 2268.	2.1	706
2	Optical properties and laser characteristics of highly Nd ³⁺ -doped Y ₃ Al ₅ O ₁₂ ceramics. Applied Physics Letters, 2000, 77, 939.	3.3	178
3	Periodical poling characteristics of congruent MgO:LiNbO ₃ crystals at elevated temperature. Applied Physics Letters, 2003, 82, 4062-4064.	3.3	129
4	Laser emission under resonant pump in the emitting level of concentrated Nd:YAG ceramics. Applied Physics Letters, 2001, 79, 590-592.	3.3	107
5	Thermal-birefringence-induced depolarization in Nd:YAG ceramics. Optics Letters, 2002, 27, 234.	3.3	92
6	High-power blue generation from a periodically poled MgO:LiNbO ₃ ridge-type waveguide by frequency doubling of a diode end-pumped Nd:Y ₃ Al ₅ O ₁₂ laser. Applied Physics Letters, 2003, 83, 3659-3661.	3.3	84
7	GaAs/Ge/GaAs Sublattice Reversal Epitaxy on GaAs (100) and (111) Substrates for Nonlinear Optical Devices. Japanese Journal of Applied Physics, 1999, 38, L508-L511.	1.5	77
8	Second-order nonlinear susceptibilities of various dielectric and semiconductor materials. Optical and Quantum Electronics, 2002, 34, 797-833.	3.3	74
9	Intrinsic reduction of the depolarization loss in solid-state lasers by use of a (110)-cut Y ₃ Al ₅ O ₁₂ crystal. Applied Physics Letters, 2002, 80, 3048-3050.	3.3	61
10	Absolute measurement of second-order nonlinear-optical coefficients of $\hat{\chi}^2$ -BaB ₂ O ₄ for visible to ultraviolet second-harmonic wavelengths. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 620.	2.1	57
11	Tunable frequency-doubled Yb:YAG microchip lasers. Optical Materials, 2002, 19, 169-174.	3.6	54
12	Room-temperature, continuous-wave 1-W green power by single-pass frequency doubling in a bulk periodically poled MgO:LiNbO ₃ crystal. Optics Letters, 2004, 29, 830.	3.3	52
13	Thermal performance in high power SHG characterized by phase-matched calorimetry. Optics Express, 2011, 19, 22588.	3.4	49
14	Accurate measurements of second-order nonlinear optical coefficients of 6H and 4H silicon carbide. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1892.	2.1	48
15	Oscillation spectra and dynamic effects in a highly-doped microchip Nd:YAG ceramic laser. Optics Express, 2004, 12, 2293.	3.4	42
16	High-Power Continuous Wave Green Generation by Single-Pass Frequency Doubling of a Nd:GdVO ₄ Laser in a Periodically Poled MgO:LiNbO ₃ Operating at Room Temperature. Japanese Journal of Applied Physics, 2003, 42, L1296-L1298.	1.5	38
17	Spectroscopy and laser emission under hot band resonant pump in highly doped Nd:YAG ceramics. Optics Communications, 2001, 195, 225-232.	2.1	33
18	Thermally-induced-birefringence effects of highly Nd ³⁺ -doped Y ₃ Al ₅ O ₁₂ ceramic lasers. Optical Materials, 2007, 29, 1271-1276.	3.6	33

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19	High-energy quasi-phase-matched optical parametric oscillation in a 3-mm-thick periodically poled MgO:LiNbO ₃ device. Optics Letters, 2004, 29, 2527.	3.3	32
20	Phase-matching directions, refined Sellmeier equations, and second-order nonlinear coefficient of the infrared Langatate crystal La ₃ Ga ₅ Ta ₅ O ₁₄ . Optics Letters, 2014, 39, 4033.	3.3	32
21	Absolute measurement of second-order nonlinear-optical coefficients of CsLiB ₆ O ₁₀ for visible-to-ultraviolet second-harmonic wavelengths. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 302.	2.1	30
22	Temperature-Dependent Sellmeier Equation for Refractive Index of 1.0 mol % Mg-Doped Stoichiometric Lithium Tantalate. Japanese Journal of Applied Physics, 2013, 52, 032601.	1.5	30
23	High-power and highly efficient composite laser with an anti-reflection coated layer between a laser crystal and a diamond heat spreader fabricated by room-temperature bonding. Optics Express, 2017, 25, 22797.	3.4	28
24	Efficient Ultraviolet Second-Harmonic Generation from a Walk-Off-Compensating β -BaB ₂ O ₄ Device with a New Structure Fabricated by Room-Temperature Bonding. Applied Physics Express, 2012, 5, 052201.	2.4	24
25	Accurate measurement of quadratic nonlinear-optical coefficients of gallium nitride. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2026.	2.1	21
26	Evaluation of eight nonlinear crystals for phase-matched Terahertz second-order difference-frequency generation at room temperature. Optical Materials Express, 2020, 10, 561.	3.0	16
27	Ultraviolet vortex generation using periodically bonded β -BaB ₂ O ₄ device. Optics Express, 2014, 22, 12829.	3.4	15
28	Fabrication of quasi-phase-matching stacks of GaAs plates using a new technique: room-temperature bonding. Optical Materials Express, 2017, 7, 932.	3.0	13
29	Accurate measurement of electro-optic coefficients of undoped and MgO-doped stoichiometric LiNbO ₃ . Optical Materials Express, 2017, 7, 939.	3.0	12
30	Characterization of sublattice-reversed GaAs by reflection high energy electron diffraction and transmission electron microscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 876-880.	2.7	11
31	Comprehensive analysis of multiple-reflection effects on rotational Maker-fringe experiments. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1616.	2.1	11
32	Absolute Measurement of Second-Order Nonlinear Optical Coefficient of LiNbO ₃ by Parametric Processes. Optical Review, 1995, 2, 280-284.	2.0	10
33	Second-Harmonic Generation from GaP/AlP Multilayers on GaP (111) Substrates Based on Quasi-Phase Matching for the Fundamental Standing Wave. Japanese Journal of Applied Physics, 2000, 39, L334-L336.	1.5	9
34	Accurate measurement of quadratic nonlinear-optical coefficients of zinc oxide. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2392.	2.1	7
35	Thermal characteristics of second harmonic generation by phase matched calorimetry. Optics Express, 2014, 22, 18268.	3.4	7
36	Fabrication of quasi-phase-matched devices by use of the room-temperature-bonding technique. , 2009, , .		5

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37	Quasi-phase-matching stack of 25 GaAs plates with high transmittance for high-power mid-infrared wavelength conversion fabricated by use of room-temperature bonding. Journal of the Optical Society of America B: Optical Physics, 2021, 38, B30.	2.1	5
38	Thermal Birefringence in Nd:YAG Ceramics. , 2001, , ME14.		4
39	Continuous-wave high-power Nd:YAG-KNbO3 laser at. Optics and Laser Technology, 2004, 36, 581-585.	4.6	4
40	Generation of 6 μm Radiation by Optical Parametric Oscillator and Difference Frequency Generation in Periodically Poled LiNbO3. Japanese Journal of Applied Physics, 2006, 45, 111-115.	1.5	4
41	Fabrication of a quasi-phase-matching stack of 53 GaAs plates for high-power mid-infrared wavelength conversion by use of room-temperature bonding. , 2019, , .		4
42	Reflex arc of the teeth clenching-induced pressor response in rats. Journal of Physiological Sciences, 2018, 68, 89-100.	2.1	3
43	Optical Properties and Laser Oscillations of Highly Neodymium-doped YAG Ceramics. , 2000, , .		3
44	The spectroscopic properties and laser characteristics of polycrystalline Nd: Y3ScxAl(5-x)O12 laser media. , 2003, , 444.		2
45	Severe Hypotension During the Decreasing Phase of G_z Stress in Anesthetized Rats Wearing an Anti-G Suit. Aviation, Space, and Environmental Medicine, 2011, 82, 1030-1036.	0.5	2
46	Fabrication of a new structured highly efficient wavelength-conversion device by use of the room-temperature-bonding technique. , 2012, , .		2
47	Distinguishing dislocation densities in intrinsic layers of pin diamond diodes using two photon-excited photoluminescence imaging. Diamond and Related Materials, 2021, 117, 108463.	3.9	2
48	<title>All-solid-state diode and end-pumped Nd:YAG laser passively Q-switched by Cr⁴⁺:YAG saturable absorber</title>. , 2004, 5581, 170.		1
49	Accurate Measurements of Second-Order Nonlinear-Optical Coefficients of Silicon Carbide. Materials Science Forum, 0, 615-617, 315-318.	0.3	1
50	Fabrication of Quasi-phase-matching Stack of GaAs Plates Using a New Technique: Room-temperature Bonding. , 2016, , .		1
51	Thermal effects in SHG with Focused Gaussian Beams. , 2013, , .		1
52	A New Walk-Off Compensating BBO Device with Thinner-Plate-Stacked Structure Fabricated by Room-Temperature Bonding. , 2013, , .		1
53	High-power green generation at room temperature in a periodically poled MgO: LiNbO3 by frequency doubling of a diode end-pumped Nd: GdVO4 laser. , 2004, , .		1
54	Reduction of the thermal load in highly Nd ³⁺ -doped ceramic YAG by laser oscillation. , 2004, , .		1

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55	New Fabrication technique of quasi-phase-matched devices by use of the room-temperature-bonding. , 2009, , .		1
56	Relationship between F4Individuals and F5Lines in Cooking Quality of Rice. Plant Production Science, 2000, 3, 257-258.	2.0	0
57	<title>Continuous-wave intracavity frequency-doubled Nd:YAG-KNbO<formula><inf>3</inf></form> blue laser at 473 nm</title>. , 2004, , .		0
58	Accurate measurement of second-order nonlinear-optical coefficients of undoped and MgO-doped near-stoichiometric LiNbO<inf>3</inf>. , 2006, , .		0
59	Room-temperature-bonding technology for laser and nonlinear crystals. , 2013, , .		0
60	In vitro experiment for verification of the tandem shunt valve system: a novel method for treating hydrocephalus by flexibly controlling cerebrospinal fluid flow and intracranial pressure. Journal of Neurosurgery: Pediatrics, 2013, 11, 43-47.	1.3	0
61	Thermal management for high-power wavelength conversion. , 2013, , .		0
62	Fabrication and characterization of room-temperature-bonded composite lasers. , 2013, , .		0
63	Room-temperature Bonding and its Applications to Solid-state Lasers and Wavelength-conversion Devices. , 2014, , .		0
64	Fabrication of walk-off compensating wavelength-conversion devices with stacks of multiple plates by use of room-temperature bonding. , 2014, , .		0
65	Heat-removal wavelength-conversion module by air-bubble reduction. , 2015, , .		0
66	Improved sellmeier equations of undoped and Mg-doped stoichiometric LiNbO<inf>3</inf> and LiTaO<inf>3</inf> from visible to mid-IR region. , 2015, , .		0
67	Direct bonding of a laser crystal and Copper by use of the room-temperature bonding. , 2017, , .		0
68	Precise birefringence measurement of anisotropic materials by dual-comb spectroscopy. , 2017, , .		0
69	Room-temperature-bonded Nd:YAG/diamond composite laser with an anti-reflection coating layer at the bonded interface for high-power and highly efficient oscillation. , 2017, , .		0
70	Development of multiple GaAs plate-stacked quasi-phase-matching mid-infrared wavelength-conversion devices by use of room-temperature bonding. , 2017, , .		0
71	Accurate measurements of second-order nonlinear-optical coefficients of a UV-generating wavelength-conversion material: LaBGeO5. , 2018, , .		0
72	Improvement of Multiple-plate GaAs Stacks for Mid-infrared Quasi-phase-matching Wavelength-conversion Devices Fabricated with Room-temperature Bonding. , 2021, , .		0

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73	Drastic Reduction of Depolarization Resulting from Thermally Induced Birefringence by Use of a (100)-Cut YAG Crystal. , 2002, , .		0
74	Reduction of the thermal load by laser oscillation in highly Nd ³⁺ -doped ceramic YAG. , 2004, , .		0
75	Accurate measurement of second-order nonlinear-optical coefficients of near-stoichiometric LiNbO ₃ . , 2006, , .		0
76	Accurate Determination of Nonlinear Optical Coefficients of Hexagonal Silicon Carbide of Polytype 6H. , 2007, , .		0
77	Accurate Measurements of Second-Order Nonlinear-Optical Coefficients of Near-Stoichiometric LiNbO ₃ at 1.31 and 1.06 Åµm. , 2007, , .		0
78	Dephasing and lensing in high power wavelength conversion. , 2013, , .		0
79	Fabrication of Walk-off Compensating BBO Devices with Multiple Thin Plates Using Room-Temperature Bonding. , 2017, , .		0
80	Wavelength-conversion Characteristics of Quasi-phase-matching Stack of GaAs Plates Fabricated with the Room-temperature-bonding Technique. , 2017, , .		0
81	Direct Measurements of Temperature-Dependent Refractive Indices of Stoichiometric LiNbO ₃ and LiTaO ₃ . , 2018, , .		0
82	Accurate measurements of second-order nonlinear-optical coefficients of LaBGeO ₅ at UV generating wavelength region. , 2021, , .		0
83	Comparison of several nonlinear crystals for phase-matched nonlinear generation in the TeraHertz range. , 2020, , .		0
84	Improvement of Multiple GaAs Plate-stacked Quasi-phase-matching Mid-infrared Wavelength-conversion Devices Fabricated With Room-temperature Bonding. , 2021, , .		0
85	Room-temperature-bonded multiple GaAs plates for mid-IR wavelength conversion. , 2022, , .		0