Takunori Taira

List of Publications by Year
in descending order

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Version: 2024-02-01

371	7,686	46918	64668
papers	citations	47 h-index	79 g-index

372	372	372	2699
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recovery of the laser-induced breakdown spectroscopy system using a ceramic microchip deteriorated by radiation for the remote elemental analysis. Journal of Nuclear Science and Technology, 2023, 60, 175-184.	0.7	5
2	Radiation robustness of laser ceramics and single crystal for microchip laser remote analysis. Japanese Journal of Applied Physics, 2022, 61, 032003.	0.8	1
3	Remote Laser Analysis Technique for Decommissioning of Nuclear Power Station. Journal of the Institute of Electrical Engineers of Japan, 2022, 142, 77-80.	0.0	0
4	>50 MW peak power, high brightness Nd:YAG/Cr⁴⁺:YAG microchip laser with unstable resonator. Optics Express, 2022, 30, 5151.	1.7	15
5	Development of a portable laser peening device and its effect on the fatigue properties of HT780 butt-welded joints. Forces in Mechanics, 2022, 7, 100080.	1.3	6
6	Laser-induced damage study of bonded material for a high-brightness laser system. Optics Letters, 2022, 47, 3067.	1.7	5
7	Deformation Properties of Laser Peen Forming Using Sub-nanosecond Microchip Laser. Journal of the Japan Society for Technology of Plasticity, 2021, 62, 8-13.	0.0	0
8	Thermal Expansion Coefficient of Garnet and Bixbyite Laser Crystals Evaluated by First Principles Calculation. , 2021, , .		0
9	Study on the specific heat of Y3Al5O12 between 129â€…K and 573â€…K. Optical Materials Express, 2021, 11, 551	1.6	6
10	Radiation dose rate effects on the properties of a laser-induced breakdown spectroscopy system developed using a ceramics micro-laser for fiber-optic remote analysis. Journal of Nuclear Science and Technology, 2021, 58, 405-415.	0.7	12
11	Effects of Laser Peening with a Pulse Energy of 1.7 mJ on the Residual Stress and Fatigue Properties of A7075 Aluminum Alloy. Metals, 2021, 11, 1716.	1.0	4
12	Thermal Expansion Coefficient of Materials for Laser Ceramics Evaluated by the First Principles Calculation. , 2021, , .		0
13	37 MW peak power unstable resonator microchip laser. , 2021, , .		0
14	Smart Gain Medium of DFC Chip for >2J Micro-Laser Amplifier under Room Temperature. , 2021, , .		0
15	Tailor-made Laser Chip by Bonding for High Energy Laser System. , 2021, , .		0
16	Development of a laser-induced breakdown spectroscopy system using a ceramic micro-laser for fiber-optic remote analysis. Journal of Nuclear Science and Technology, 2020, 57, 1189-1198.	0.7	21
17	High peak-power near-MW laser pulses by third harmonic generation at 355â€…nm in Ca5(BO3)3F nonlinear single crystals. Optics Express, 2020, 28, 10524.	1.7	7
18	Polarity inversion of crystal quartz using a quasi-phase matching stamp. Optics Express, 2020, 28, 6505.	1.7	4

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19	Room Temperature 2J Laser Amplifier with Direct Bonded DFC Chip. , 2020, , .		2
20	Quantitative Evaluation of Birefringence of Quartz Crystal in Terahertz Region. , 2020, , .		0
21	Investigation on Gain Aperture as a Compact Tool for Spatial Beam Shaping. , 2020, , .		0
22	Specific Heat of Y3Al5O12 under Cryogenic and Room Temperature Conditions. , 2020, , .		0
23	High-Brightness Unstable Cavity Nd:YAG/Cr4+:YAG Microchip Laser. , 2020, , .		0
24	Stamp method for QPM quartz fabrication. , 2020, , .		0
25	Laser Wavelengths Suitable for Generating Ultrasonic Waves in Resin-Coated Carbon Fiber Composites. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 2020, 3, .	0.7	1
26	Spectral phase control of interfering chirped pulses for high-energy narrowband terahertz generation. Nature Communications, 2019, 10, 2591.	5.8	96
27	Tiny Integrated Laser by Room Temperature Surface Activated Bonding. , 2019, , .		0
28	100 Hz operation in 10 PW/srÂ·cm2 class Nd:YAG Micro-MOPA. Optics Express, 2019, 27, 19555.	1.7	18
29	>30 MW peak power from distributed face cooling tiny integrated laser. Optics Express, 2019, 27, 30217.	1.7	20
30	High peak power Nd:YAG/Cr:YAG ceramic microchip laser with unstable resonator. Optics Express, 2019, 27, 31307.	1.7	14
31	Second Harmonic Generation under High Dose-Rate Gamma Ray Irradiation. , 2019, , .		0
32	Study of Gain Aperture under High Pump Power for the Development of High-brightness Ultra-compact MOPA. , 2019, , .		0
33	Study of Microchip Laser Pulse Shaping under Amplification. , 2019, , .		0
34	High Efficiency Third Harmonic Generation at 355 nm in CBF (Ca5(BO3)3F) Single Crystal Using Micro-MOPA. , 2019, , .		0
35	Polarity inversion of crystal quartz using a QPM stamp. , 2019, , .		0
36	Transparent Ceramics Made of Non-Isometric Crystals. The Review of Laser Engineering, 2019, 47, 442.	0.0	0

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37	High average power ultrafast lasers: large aperture quasi-phase matched nonlinear devices. , 2019, , .		0
38	A quantitative thermal and thermomechanical analysis for design optimization and robustness assessment of microassembled high power Yb:CaF2 thin-disk Laser. Optics and Laser Technology, 2018, 105, 229-241.	2.2	3
39	Q-switched Laser Oscillation in Micro-Domain Controlled Yb:FAP Anisotropic Laser Ceramics. , 2018, , .		0
40	High brightness energetic pulses delivered by compact microchip-MOPA system. Optics Express, 2018, 26, 8609.	1.7	25
41	Feature issue introduction: Advanced Solid-State Lasers 2017. Optics Express, 2018, 26, 11018.	1.7	0
42	Feature issue introduction: Advanced Solid-State Lasers 2017. Optical Materials Express, 2018, 8, 1246.	1.6	0
43	Characteristics of crystal quartz for high-intensity, sub-nanosecond wavelength conversion. Optical Materials Express, 2018, 8, 1259.	1.6	8
44	Surface Activated Bonding (SAB) based Sub-nanosecond Distributed Face Cooling (DFC) Handheld Laser. , 2018, , .		0
45	Towards Millijoule Narrowband Terahertz Pulses Using the Chirp-and-Delay Technique. , 2018, , .		0
46	14 MW doughnut beam Nd:YAG/Cr:YAG ceramic microchip laser with unstable cavity. , 2018, , .		0
47	Study on QPM quartz for intense-laser pumped 266 nm generation. , 2018, , .		0
48	Towards Millijoule Narrowband Terahertz Generation Using Chirp-and-Delay in Periodically Poled Lithium Niobate. , 2018, , .		1
49	Efficient optical parametric generation pumped by a sub-nanosecond MOPA source. , 2018, , .		0
50	Suppression of the Secondary Phase at Grain Boundaries in Yb:FAP Anisotropic Laser Ceramics. , 2018, , .		0
51	100Hz operation in the PW/sr/cm2 class Micro-MOPA. , 2018, , .		0
52	Frequency-shifted sources for terahertz-driven linear electron acceleration. , 2018, , .		0
53	Structured laser gain-medium by new bonding for power micro-laser. Proceedings of SPIE, 2017, , .	0.8	2
54	Compressed 6â€‰ps pulse in nonlinear amplification of a Q-switched microchip laser. Laser Physics, 2017, 27, 025102.	0.6	3

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55	Process design of microdomains with quantum mechanics for giant pulse lasers. Scientific Reports, 2017, 7, 10732.	1.6	11
56	Randomly polarised beam produced by magnetooptically Q-switched laser. Scientific Reports, 2017, 7, 15398.	1.6	4
57	Distributed face cooling scheme for tiny laser power scale-up. , 2017, , .		0
58	Effective Terahertz Wave Parametric Generation Depending on the Pump Pulse Width Using a LiNbO3 Crystal. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 617-620.	2.0	24
59	Improvement of optical-to-optical conversion efficiency of passively Q-switched micro-laser pumped by VCSEL module. , 2017, , .		1
60	Quasi phase-matched quartz for intense-laser pumped wavelength conversion. Optics Express, 2017, 25, 2369.	1.7	15
61	Sub-nanosecond laser induced air-breakdown with giant-pulse duration tuned Nd:YAG ceramic micro-laser by cavity-length control. Optics Express, 2017, 25, 6302.	1.7	28
62	Temperature stable operation of YCOB crystal for giant-pulse green microlaser. Optics Express, 2017, 25, 6431.	1.7	13
63	Focus issue introduction: Advanced Solid-State Lasers (ASSL) 2016. Optics Express, 2017, 25, 8604.	1.7	0
64	Focus issue introduction: Advanced Solid-State Lasers (ASSL) 2016. Optical Materials Express, 2017, 7, 1431.	1.6	0
65	Drastic thermal effects reduction through distributed face cooling in a high power giant-pulse tiny laser. Optical Materials Express, 2017, 7, 3214.	1.6	35
66	Feature issue introduction: shaping and patterning crystals for optics. Optical Materials Express, 2017, 7, 3466.	1.6	1
67	Model for the polarization dependence of the saturable absorption in Cr^4+:YAG. Optical Materials Express, 2017, 7, 577.	1.6	15
68	Pulse-width and pulse-energy dependence of sub-nanosecond laser induced air-breakdown. , 2017, , .		0
69	Narrowband terahertz generation with chirped-and-delayed laser pulses in periodically poled lithium niobate. Optics Letters, 2017, 42, 2118.	1.7	55
70	Epitaxial growth of Ce substituted yttrium iron garnet film on Nd:YAG substrate. , 2017, , .		1
71	Pulse-Width Scaling law of Air-Breakdown for Laser Ignition Application. , 2017, , .		0
72	>200 mJ High-Brightness Sub-ns Micro-Laser-Based Compact MOPA. , 2017, , .		0

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73	Giant Micro-Photonics Toward Innovative Ignition. , 2017, , .		0
74	Giant-pulse width tunable Nd:YAG ceramic microchip laser and amplifier for smart ignition. , 2017, , .		0
75	Multistage Amplification of Microchip Laser for Air Breakdown Experiments. , 2017, , .		0
76	Epitaxially Grown Magnetic Garnet Film on Nd:YAG Substrate for Microchip Lasers. , 2017, , .		1
77	Study of Saturable Absorption in Cr4+:YAG Ceramics for the Efficient Q-Switched Laser Action. , 2017, , .		0
78	Large aperture quasi-phase matched nonlinear material for functional power lasers. , 2017, , .		1
79	CW Operation of Distributed Face Cooling Chip for Tiny Integrated Lasers. , 2017, , .		0
80	Laser Damage Threshold Evaluation of Nonlinear Crystal Quartz for Sub-Nanosecond Pulse Irradiation. , 2017, , .		0
81	High Damage-Resistant Coating Solution for High-Field Ceramics Laser. , 2017, , .		0
82	Terahertz Accelerator Technology. , 2017, , .		0
83	Model for the Polarization Dependence of Saturable Absorption Characteristics in Cr4+:YAG. , 2017, , .		0
84	>MW peak power at 266 nm, low jitter kHz repetition rate from intense pumped microlaser. Optics Express, 2016, 24, 28748.	1.7	19
85	Magnetic domains driving a Q-switched laser. Scientific Reports, 2016, 6, 38679.	1.6	19
86	Giant-pulse Nd:YVO_4 microchip laser with MW-level peak power by emission cross-sectional control. Optics Express, 2016, 24, 3137.	1.7	13
87	Numerical model for thermal parameters in optical materials. , 2016, , .		0
88	Magneto-optical Q-switching using magnetic garnet film with micromagnetic domains. Optics Express, 2016, 24, 17635.	1.7	19
89	Focus issue introduction: Advanced Solid-State Lasers (ASSL) 2015. Optics Express, 2016, 24, 5674.	1.7	2
90	Introduction: Nonlinear Optics (NLO) 2015 feature issue. Optical Materials Express, 2016, 6, 466.	1.6	1

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91	Direct Measurement of Temporal Transmission Distribution of a Saturable Absorber in a Passively Q-Switched Laser. IEEE Journal of Quantum Electronics, 2016, 52, 1-7.	1.0	6
92	High-gain mid-infrared optical-parametric generation pumped by microchip laser. Optics Express, 2016, 24, 1046.	1.7	17
93	Over 0.5 MW green laser from sub-nanosecond giant pulsed microchip laser. , 2016, , .		0
94	Initial Behavior of the Relaxation Oscillation at Zero-Phonon Line of Yb Gain Media. , 2016, , .		1
95	Continuously pulse width tunable Nd:YAG ceramic micro giant-pulse laser for laser induced breakdown. , 2016, , .		0
96	>2 MW peak power at 1560 nm from micro giant-pulse laser/amplifier with PPMgLN OPG. , 2016, , .		1
97	State of The Art Laser Ignition. Journal of the Institute of Electrical Engineers of Japan, 2016, 136, 296-300.	0.0	1
98	Polarization dependence of saturable absorption characteristics in Cr4+:YAG. , 2016, , .		0
99	Temperature stable operation of YCOB crystal for giant-pulse green micro-laser. , 2016, , .		0
100	Actively controlled Q-switched laser using domains in magnetooptical garnet film. , 2016, , .		0
101	Diode Laser Pumped Solid State Laser Using Magneto-Optical Q Switch. , 2016, , .		0
102	Overview of Optical/Laser Technological Advances Leading to Practical Laser Ignition Systems. , 2015, , .		3
103	Focus issue introduction: Advanced Solid-State Lasers (ASSL) 2014. Optics Express, 2015, 23, 8170.	1.7	3
104	High-power, widely tunable, room-temperature picosecond optical parametric oscillator based on cylindrical 5%MgO:PPLN. Optics Letters, 2015, 40, 3897.	1.7	28
105	Diode edge-pumped passively Q-switched microchip laser. Optical Engineering, 2015, 54, 090501.	0.5	4
106	Long Time Operation of Composite Ceramic Nd:YAG/Cr:YAG Micro-chip Lasers for Ignition. , 2015, , .		1
107	> 1 MW peak power at 266 nm in nonlinear YAl3(BO3)4 (YAB) single crystal. , 2015, , .		3
108	Introduction to the Issue on Solid-State Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 1-3.	1.9	2

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109	Mid-Infrared optical-parametric generation pumped by sub-nanosecond microchip laser. , 2015, , .		3
110	Giant Micro-photonics for Laser Ignition. , 2014, , .		0
111	Highly accurate interferometric evaluation of thermal expansion and dn/dT of optical materials. Optical Materials Express, 2014, 4, 876.	1.6	40
112	> 0.5 MW Peak Power, kHz Repetition Rate at 266 nm Using [100]-Cut Nd:YAG Microchip Laser. , 2014, , .		1
113	Updating of temperature coefficients of refractive index in Nd:GdVO4 and Nd:YVO4. , 2014, , .		0
114	Anisotropic Yb:FAP laser ceramics by micro-domain control. Optical Materials Express, 2014, 4, 2006.	1.6	34
115	Feature issue introduction: optical ceramics. Optical Materials Express, 2014, 4, 2221.	1.6	2
116	Focus issue introduction: Advanced Solid-State Lasers (ASSL) 2013. Optics Express, 2014, 22, 8813.	1.7	3
117	Focus issue introduction: Laser Ignition Conference. Optics Express, 2014, 22, A564.	1.7	1
118	Improvement of laser-beam distortion in large-aperture PPMgLN device by using X-axis Czochralski-grown crystal. Optics Express, 2014, 22, 19668.	1.7	13
119	240 kW peak power at 266 nm in nonlinear YAl_3(BO_3)_4 single crystal. Optics Express, 2014, 22, 30325.	1.7	19
120	Introduction: Nonlinear Optics (NLO) 2013 feature. Optical Materials Express, 2014, 4, 41.	1.6	1
121	Kilowatt-peak Terahertz-wave Generation and Sub-femtojoule Terahertz-wave Pulse Detection Based on Nonlinear Optical Wavelength-conversion at Room Temperature. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 25-37.	1.2	79
122	Ultrabright continuously tunable terahertz-wave generation at room temperature. Scientific Reports, 2014, 4, 5045.	1.6	185
123	Practical Solid-State Lasers for Laser Ignition. The Review of Laser Engineering, 2014, 42, 394.	0.0	2
124	Fabrication of large-aperture PPMgLN device using X-axis Czochralski-grown crystal. , 2014, , .		0
125	Laser Engine Ignition. The Review of Laser Engineering, 2014, 42, 299.	0.0	0
126	1J pumped optical parametric oscillation by using large-aperture PPMgLN device. , 2014, , .		0

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127	Laser Ignition Spin-Off: Giant Pulse UV Microchip Laser. The Review of Laser Engineering, 2014, 42, 400.	0.0	0
128	Temporal and Spatial Observations of the Anisotropic Transmission of a Cr:YAG Saturable Absorber in a Passively Q-Switched Laser. The Review of Laser Engineering, 2014, 42, 71.	0.0	0
129	Megawatt peak power UV microlaser. Proceedings of SPIE, 2013, , .	0.8	0
130	High Peak Power, Passively Q-Switched Yb:YAG/Cr:YAG Micro-Lasers. IEEE Journal of Quantum Electronics, 2013, 49, 454-461.	1.0	40
131	Discussions on the pump absorption efficiency under hot-band pumping of Nd:YAG. , 2013, , .		1
132	Growth and characterization of YAl3(BO3)4 single crystals. , 2013, , .		0
133	Orientation control of micro-domains in anisotropic laser ceramics. Optical Materials Express, 2013, 3, 829.	1.6	21
134	Dual-wavelength source from 5%MgO:PPLN cylinders for the characterization of nonlinear infrared crystals. Optics Express, 2013, 21, 28886.	1.7	25
135	Efficient second to ninth harmonic generation using megawatt peak power microchip laser. Optics Express, 2013, 21, 28849.	1.7	25
136	Widely tunable optical parametric oscillator in a 5Âmm thick 5% MgO:PPLN partial cylinder. Optics Letters, 2013, 38, 860.	1.7	27
137	Palm-top size megawatt peak power ultraviolet microlaser. Optical Engineering, 2013, 52, 076102.	0.5	21
138	250 MW peak power ultrafast mid-IR OPCPA. , 2013, , .		0
139	Fundamental investigations in orientation control process for anisotropic laser ceramics. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 896-902.	0.8	7
140	Feature issue introduction: optical ceramics. Optical Materials Express, 2013, 3, 904.	1.6	0
141	Accurate interferometric evaluation of thermo-mechanical and -optical properties of YAG, YVO4, and GdVO4. , 2013, , .		0
142	Large-Aperture PPMgLN for High Energy Parametric Process. , 2013, , .		1
143	Widely and independently tunable cylindrical OPOs for difference frequency generation experiments. , 2013, , .		0
144	Characterization of 8 mol% Mg-doped congruent LiTaO3 for high-energy quasi-phase matching device. , 2013, , .		2

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145	Simultaneously 3-Point Ignitable, Nd:YAG/Cr:YAG Ceramic Micro-Lasers. The Review of Laser Engineering, 2013, 41, 119.	0.0	0
146	High Average Power Few-Cycle Pulses in the Mid-IR, Self-Compression and Continuum Generation. , 2013, , .		0
147	5-cycle, 160-kHz, 20-Î¼J mid-IR OPCPA. , 2013, , .		1
148	Characterization of 8 mol% Mg-doped congruent LiTaO3 crystal for high-energy quasi-phase matching device. , 2013, , .		2
149	All-parametric dual-wavelength source for difference frequency generation experiments. , 2013, , .		0
150	High Repetition Rate MW Peak Power at 532 nm Using Microchip Laser. , 2013, , .		0
151	Temperature dependences of stimulated emission cross section in Nd:YAG, Nd:YVO4, and Nd:GdVO4. , 2012, , .		0
152	High-peak-power and Narrow-linewidth Terahertz-wave Generation Pumped by a Microchip Nd:YAG Laser. , 2012, , .		0
153	Half-joule output optical-parametric oscillationâ€¨by using 10-mm-thick periodically poledâ€¨Mg-doped congruent LiNbO_3. Optics Express, 2012, 20, 20002.	1.7	77
154	> 3 MW peak power at 266 nm using Nd:YAG/ Cr^4+:YAG microchip laser and fluxless-BBO. Optical Materials Express, 2012, 2, 907.	1.6	40
155	Temperature dependencies of stimulated emission cross section for Nd-doped solid-state laser materials. Optical Materials Express, 2012, 2, 1076.	1.6	70
156	Microchip laser, ceramic laser toward Giant Micro-photonics. , 2012, , .		1
157	Carrier-envelope-phase-stable, 12ÂmJ, 15 cycle laser pulses at 21ÂÎ¼m. Optics Letters, 2012, 37, 4973.	1.7	150
158	Generation of Hermiteâ€“Gaussian modes and vortex arrays based on two-dimensional gain distribution controlled microchip laser. Optics Letters, 2012, 37, 2661.	1.7	27
159	Giant micro-photonics for laser ignitions. , 2012, , .		0
160	Model for the temperature dependent emission cross section of Nd laser media. , 2012, , .		0
161	Feature issue introduction: advances in optical materials. Optical Materials Express, 2012, 2, 1171.	1.6	1
162	Lens-less edge-pumped high power microchip laser. Applied Physics Letters, 2012, 100, 141105.	1.5	3

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163	High-power, single-longitudinal-mode terahertz-wave generation pumped by a microchip Nd:YAG laser [Invited]. Optics Express, 2012, 20, 2881.	1.7	82
164	Few-cycle Infrared OPCPA system and applications. , 2012, , .		0
165	High brightness microchip lasers for engine ignition. , 2012, , .		0
166	Lens-less edge-pumping design for high power single mode Yb:YAG microchip laser. , 2012, , .		0
167	Lens-less edge-pumping high power single-mode Yb:YAG microchip laser. , 2012, , .		0
168	Fabrication of 10-mm-thick periodically poled Mg-doped congruent LiNbO3 device for high-energy wavelength conversion. , 2012, , .		2
169	High Peak Power Micro-Laser for Ignition of Automobile Engines. , 2012, , .		1
170	High Peak Power Passively Q-switched Yb:YAG Micro-Lasers. , 2012, , .		1
171	Promise of the Giant Pulse Microchip Lasers. Nippon Laser Igakkaishi, 2012, 33, 152-157.	0.0	0
172	Laser performance of composite Nd:YAG/Cr:YAG ceramics for laser ignition. , 2011, , .		1
173	Laser Demonstration of Diode-Pumped Nd³⁺-Doped Fluorapatite Anisotropic Ceramics. Applied Physics Express, 2011, 4, 022703.	1.1	44
174	Micro-domain controlled anisotropic laser ceramics assisted by rare-earth trivalent. Proceedings of SPIE, 2011, , .	0.8	0
175	Composite, all-ceramics, high-peak power Nd:YAG/Cr^4+:YAG monolithic micro-laser with multiple-beam output for engine ignition. Optics Express, 2011, 19, 9378.	1.7	174
176	> 6 MW peak power at 532 nm from passively Q-switched Nd:YAG/Cr^4+:YAG microchip laser. Optics Express, 2011, 19, 19135.	1.7	92
177	Megawatt level UV output from [110] Cr^4+:YAG passively Q-switched microchip laser. Optics Express, 2011, 19, 22510.	1.7	36
178	Continuous-wave diode-pumped laser action of Nd^3+-doped photo-thermo-refractive glass. Optics Letters, 2011, 36, 2257.	1.7	22
179	Variation of the stimulated emission cross section in Nd:YAG caused by the structural changes of Russell-Saunders manifolds. Optical Materials Express, 2011, 1, 514.	1.6	7
180	Introduction: Advances in Optical Materials (AIOM) feature. Optical Materials Express, 2011, 1, 523.	1.6	0

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181	Domain-controlled laser ceramics toward Giant Micro-photonics [Invited]. Optical Materials Express, 2011, 1, 1040.	1.6	99
182	Large-aperture, axis-slant quasi-phase matching device using Mg-doped congruent LiNbO_3 [Invited]. Optical Materials Express, 2011, 1, 1376.	1.6	21
183	Focus issue introduction: nonlinear optics. Optical Materials Express, 2011, 1, 1393.	1.6	0
184	Influence of Nd3+-concentration on laser transitions in Nd:YAG. , 2011, , .		0
185	Detailed fluorescent study of Nd:YAG dependent on doping concentration. , 2011, , .		0
186	Characterization of high-energy optical-parametric oscillation by using periodically poled Mg-doped congruent LiTaO<inf>3</inf>. , 2011, , .		0
187	Comparative study on the temperature dependent emission cross section of Nd:YAG, Nd:YVO4, and Nd:GdVO4. , 2011, , .		0
188	Anisotropic Laser Ceramics toward Giant Micro-photonics. , 2011, , .		0
189	High-power, Single-longitudinal-mode Terahertz-wave Generation Pumped by a Microchip Nd:YAG Laser. , 2011, , .		2
190	Fabrication of slant quasi phase matching structure in Mg-doped congruent LiNbO3. , 2011, , .		0
191	Continuously tunable, high-energy mid-infrared optical-parametric oscillation by angular tuning of PPMgLN with tilted QPM structures. , 2010, , .		0
192	High Brightness Microchip Laser and Engine Ignition. The Review of Laser Engineering, 2010, 38, 576-584.	0.0	4
193	High Peak Power, Passively Q-switched Microlaser for Ignition of Engines. IEEE Journal of Quantum Electronics, 2010, 46, 277-284.	1.0	147
194	Laser ignition of combustion engines for clean vehicles. , 2010, , .		1
195	Design of high average power mode-locked oscillator based on edge-pumped all ceramic Yb:YAG/YAG microchip. , 2010, , .		1
196	Diode Edge-Pumped, Composite Ceramic Nd:YAG/Sm:YAG Microchip Lasers. , 2010, , .		2
197	Efficient generation of highly squeezed light with periodically poled MgO:LiNbO_3. Optics Express, 2010, 18, 13114.	1.7	14
198	Enhancing performances of a passively Q-switched Nd:YAGâˆ•Cr^4+:YAG microlaser with a volume Bragg grating output coupler. Optics Letters, 2010, 35, 1617.	1.7	17

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199	Laser ceramics with rare-earth-doped anisotropic materials. Optics Letters, 2010, 35, 3598.	1.7	64
200	High energy quasi-phase matchedâ€¨ optical parametric oscillationâ€¨ using Mg-doped congruent LiTaO_3 crystal. Optics Express, 2010, 18, 253.	1.7	43
201	Efficient ignition of a real automobile engine by a high brightness, passively Q-switched Cr:YAG/Nd:YAG micro-laser. , 2010, , .		1
202	Temperature and Polarization Dependences of Cr:YAG Transmission for Passive Q-switching. , 2009, , .		5
203	New fabrication process of anisotropic laser ceramics. , 2009, , .		0
204	Angular quasi-phase-matching: theory and first experiments. , 2009, , .		2
205	Effects of rare-earth doping on thermal conductivity in Y3Al5O12 crystals. Optical Materials, 2009, 31, 720-724.	1.7	52
206	Angular quasi-phase-matching experiments and determination of accurate Sellmeier equations for 5%MgO:PPLN. Optics Letters, 2009, 34, 2578.	1.7	18
207	Generation of carrier-envelope-phase-stable 2-cycle 740-Î¼J pulses at 21-Î¼m carrier wavelength. Optics Express, 2009, 17, 62.	1.7	126
208	Tunability enhancement of a terahertz-wave parametric generator pumped by a microchip Nd:YAG laser. Applied Optics, 2009, 48, 2899.	2.1	34
209	Isomer selective infrared spectroscopy of supersonically cooled cis- and trans-N-phenylamides in the region from the amide band to NH stretching vibration. Physical Chemistry Chemical Physics, 2009, 11, 6098.	1.3	41
210	The study of spectroscopic properties of Nd: PTR glass. , 2009, , .		0
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