Takunori Taira

List of Publications by Year
in descending order

371 papers	7,686 citations	47006 47 h-index	64796 79 g-index
372 all docs	372 docs citations	372 times ranked	2699 citing authors

#	Article	IF	Citations
1	PROGRESS IN CERAMIC LASERS. Annual Review of Materials Research, 2006, 36, 397-429.	9.3	288
2	Single-mode oscillation of laser-diode-pumped Nd:YVO_4 microchip lasers. Optics Letters, 1991, 16, 1955.	3.3	207
3	>1 MW peak power single-mode high-brightness passively Q-switched Nd^3+:YAG microchip laser. Optics Express, 2008, 16, 19891.	3.4	197
4	Ultrabright continuously tunable terahertz-wave generation at room temperature. Scientific Reports, 2014, 4, 5045.	3.3	185
5	Optical properties and laser characteristics of highly Nd[sup 3+]-doped Y[sub 3]Al[sub 5]O[sub 12] ceramics. Applied Physics Letters, 2000, 77, 939.	3.3	178
6	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.	3.4	174
7	The studies of thermal conductivity in GdVO4, YVO4, and Y3Al5O12measured by quasi-one-dimensional flash method. Optics Express, 2006, 14, 10528.	3.4	166
8	Laser operation with near quantum-defect slope efficiency in Nd:YVO4 under direct pumping into the emitting level. Applied Physics Letters, 2003, 82, 844-846.	3.3	165
9	Modeling of quasi-three-level lasers and operation of cw Yb:YAG lasers. Applied Optics, 1997, 36, 1867.	2.1	163
10	Carrier-envelope-phase-stable, 12ÂmJ, 15 cycle laser pulses at 21ÂÎ¼m. Optics Letters, 2012, 37, 4973.	3.3	150
11	High Peak Power, Passively Q-switched Microlaser for Ignition of Engines. IEEE Journal of Quantum Electronics, 2010, 46, 277-284.	1.9	147
12	Highly efficient 1063-nm continuous-wave laser emission in Nd:GdVO_4. Optics Letters, 2003, 28, 2366.	3.3	141
13	High-energy quasi-phase-matched optical parametric oscillation in a periodically poled MgO:LiNbO_3 device with a 5?mmÃ—5?mm aperture. Optics Letters, 2005, 30, 2918.	3.3	132
14	Periodical poling characteristics of congruent MgO:LiNbO3 crystals at elevated temperature. Applied Physics Letters, 2003, 82, 4062-4064.	3.3	129
15	Broadband quasi-phase-matched second-harmonic generation in MgO-doped periodically poled LiNbO_3 at the communications band. Optics Letters, 2002, 27, 1046.	3.3	127
16	Generation of carrier-envelope-phase-stable 2-cycle 740-Î¼J pulses at 21-Î¼m carrier wavelength. Optics Express, 2009, 17, 62.	3.4	126
17	RE$^{3 +}$-Ion-Doped YAG Ceramic Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 798-809.	2.9	123
18	Laser emission under resonant pump in the emitting level of concentrated Nd:YAG ceramics. Applied Physics Letters, 2001, 79, 590-592.	3.3	107

#	Article	IF	Citations
19	Diode-pumped tunable Yb:YAG miniature lasers at room temperature: modeling and experiment. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 100-104.	2.9	101
20	Comparative study on the spectroscopic properties of Nd:GdVO/sub 4/ and Nd:YVO/sub 4/ with hybrid process. IEEE Journal of Selected Topics in Quantum Electronics, 2005, 11, 613-620.	2.9	100
21	Domain-controlled laser ceramics toward Giant Micro-photonics [Invited]. Optical Materials Express, 2011, 1, 1040.	3.0	99
22	Spectral phase control of interfering chirped pulses for high-energy narrowband terahertz generation. Nature Communications, 2019, 10, 2591.	12.8	96
23	High Average Power Diode End-Pumped Composite Nd:YAG Laser Passively Q-switched by Cr4+:YAG Saturable Absorber. Japanese Journal of Applied Physics, 2001, 40, 1253-1259.	1.5	95
24	Thermal-birefringence-induced depolarization in Nd:YAG ceramics. Optics Letters, 2002, 27, 234.	3.3	92
25	> 6 MW peak power at 532 nm from passively Q-switched Nd:YAG/Cr^4+:YAG microchip laser. Optics Express, 2011, 19, 19135.	3.4	92
26	High-power operation of diode edge-pumped, composite all-ceramic Yb:Y3Al5O12 microchip laser. Applied Physics Letters, 2007, 90, 121101.	3.3	89
27	High-power blue generation from a periodically poled MgO:LiNbO3 ridge-type waveguide by frequency doubling of a diode end-pumped Nd:Y3Al5O12 laser. Applied Physics Letters, 2003, 83, 3659-3661.	3.3	84
28	High-power, single-longitudinal-mode terahertz-wave generation pumped by a microchip Nd:YAG laser [Invited]. Optics Express, 2012, 20, 2881.	3.4	82
29	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.	2.2	79
30	Highly efficient continuous-wave 946-nm Nd:YAG laser emission under direct 885-nm pumping. Applied Physics Letters, 2002, 81, 2677-2679.	3.3	77
31	Half-joule output optical-parametric oscillationâ€¨by using 10-mm-thick periodically poledâ€¨Mg-doped congruent LiNbO_3. Optics Express, 2012, 20, 20002.	3.4	77
32	1064 nm laser emission of highly doped Nd: Yttrium aluminum garnet under 885 nm diode laser pumping. Applied Physics Letters, 2002, 80, 4309-4311.	3.3	72
33	Absorption, emission spectrum properties, and efficient laser performances of Yb:Y3ScAl4O12 ceramics. Applied Physics Letters, 2004, 85, 1898-1900.	3.3	70
34	1.34-Î¼m efficient laser emission in highly-doped Nd:YAG under 885-nm diode pumping. Optics Express, 2005, 13, 7948.	3.4	70
35	Temperature dependencies of stimulated emission cross section for Nd-doped solid-state laser materials. Optical Materials Express, 2012, 2, 1076.	3.0	70
36	Ceramic YAG lasers. Comptes Rendus Physique, 2007, 8, 138-152.	0.9	67

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37	Laser emission in highly doped Nd:YAG crystals under ^4F_5/2 and ^4F_3/2 pumping. Optics Letters, 2001, 26, 1678.	3.3	65
38	Laser ceramics with rare-earth-doped anisotropic materials. Optics Letters, 2010, 35, 3598.	3.3	64
39	Intrinsic reduction of the depolarization loss in solid-state lasers by use of a (110)-cut Y3Al5O12 crystal. Applied Physics Letters, 2002, 80, 3048-3050.	3.3	61
40	Neodymium concentration dependence of 0.94-, 1.06- and 1.34-Î¼m laser emission and of heating effects under 809- and 885-nm diode laser pumping of Nd:YAG. Applied Physics B: Lasers and Optics, 2006, 82, 599-605.	2.2	61
41	300 W continuous-wave operation of a diode edge-pumped, hybrid composite Yb:YAG microchip laser. Optics Letters, 2006, 31, 2003.	3.3	59
42	High-energy, narrow-bandwidth periodically poled Mg-doped LiNbO_3 optical parametric oscillator with a volume Bragg grating. Optics Letters, 2007, 32, 2996.	3.3	55
43	Narrowband terahertz generation with chirped-and-delayed laser pulses in periodically poled lithium niobate. Optics Letters, 2017, 42, 2118.	3.3	55
44	Tunable frequency-doubled Yb:YAG microchip lasers. Optical Materials, 2002, 19, 169-174.	3.6	54
45	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
46	Effects of rare-earth doping on thermal conductivity in Y3Al5O12 crystals. Optical Materials, 2009, 31, 720-724.	3.6	52
47	Spectral Parameters of Nd3+-ion in the Polycrystalline Solid-Solution Composed of Y3Al5O12and Y3Sc2Al3O12. Japanese Journal of Applied Physics, 2003, 42, 5071-5074.	1.5	49
48	Optical pulse compression using cascaded quadratic nonlinearities in periodically poled lithium niobate. Applied Physics Letters, 2004, 84, 1055-1057.	3.3	49
49	90 W continuous-wave diode edge-pumped microchip composite Yb:Y3Al5O12 laser. Applied Physics Letters, 2003, 83, 4086-4088.	3.3	48
50	Saturation Factors of Pump Absorption in Solid-State Lasers. IEEE Journal of Quantum Electronics, 2004, 40, 270-280.	1.9	48
51	Mg-doped congruent LiTaO_3 crystal for large-aperture quasi-phase matching device. Optics Express, 2008, 16, 16963.	3.4	46
52	Highly efficient laser emission in concentrated Nd:YVO4 components under direct pumping into the emitting level. Optics Communications, 2002, 201, 431-435.	2.1	45
53	Characteristics of Nd3+-doped Y3ScAl4O12 ceramic laser. Optical Materials, 2007, 29, 1277-1282.	3.6	44
54	Laser Demonstration of Diode-Pumped Nd³⁺-Doped Fluorapatite Anisotropic Ceramics. Applied Physics Express, 2011, 4, 022703.	2.4	44

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55	Q-switching and frequency doubling of solid-state lasers by a single intracavity KTP crystal. IEEE Journal of Quantum Electronics, 1994, 30, 800-804.	1.9	43
56	High-Power Operation of Diode Edge-Pumped, Glue-Bonded, Composite Yb:Y3Al5O12Microchip Laser with Ceramic, Undoped YAG Pump Light-Guide. Japanese Journal of Applied Physics, 2005, 44, L1164-L1167.	1.5	43
57	High energy quasi-phase matchedâ€¨ optical parametric oscillationâ€¨ using Mg-doped congruent LiTaO_3 crystal. Optics Express, 2010, 18, 253.	3.4	43
58	Oscillation spectra and dynamic effects in a highly-doped microchip Nd:YAG ceramic laser. Optics Express, 2004, 12, 2293.	3.4	42
59	52 mJ narrow-bandwidth degenerated optical parametric system with a large-aperture periodically poled MgO:LiNbO3 device. Optics Letters, 2006, 31, 3149.	3.3	42
60	High-energy, broadly tunable, narrow-bandwidth mid-infrared optical parametric system pumped by quasi-phase-matched devices. Optics Letters, 2008, 33, 1699.	3.3	42
61	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.	2.8	41
62	> 3 MW peak power at 266 nm using Nd:YAG/ Cr^4+:YAG microchip laser and fluxless-BBO. Optical Materials Express, 2012, 2, 907.	3.0	40
63	High Peak Power, Passively Q-Switched Yb:YAG/Cr:YAG Micro-Lasers. IEEE Journal of Quantum Electronics, 2013, 49, 454-461.	1.9	40
64	Highly accurate interferometric evaluation of thermal expansion and dn/dT of optical materials. Optical Materials Express, 2014, 4, 876.	3.0	40
65	Comparative investigation of spectroscopic and laser emission characteristics under direct 885-nm pump of concentrated Nd:YAG ceramics and crystals. Applied Physics B: Lasers and Optics, 2001, 73, 757-762.	2.2	39
66	Spectroscopic Properties of Neodymium-Doped Yttrium Orthovanadate Single Crystals with High-Resolution Measurement. Japanese Journal of Applied Physics, 2002, 41, 5999-6002.	1.5	39
67	Periodic Poling in 3-mm-Thick MgO:LiNbO3Crystals. Japanese Journal of Applied Physics, 2003, 42, L108-L110.	1.5	39
68	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
69	High-Power Continuous Wave Green Generation by Single-Pass Frequency Doubling of a Nd:GdVO4Laser in a Periodically Poled MgO:LiNbO3Operating at Room Temperature. Japanese Journal of Applied Physics, 2003, 42, L1296-L1298.	1.5	38
70	Femtosecond Yb3+-doped Y3(Sc0.5Al0.5)2O12 ceramic laser. Optical Materials, 2007, 29, 1283-1288.	3.6	38
71	Passive mode locking of a mixed garnet Yb:Y3ScAl4O12 ceramic laser. Applied Physics Letters, 2004, 85, 5845-5847.	3.3	37
72	Nonlinear optical properties of Ca_5(BO_3)_3F crystal. Optics Express, 2008, 16, 17735.	3.4	37

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73	Megawatt level UV output from [110] Cr^4+:YAG passively Q-switched microchip laser. Optics Express, 2011, 19, 22510.	3.4	36
74	Drastic thermal effects reduction through distributed face cooling in a high power giant-pulse tiny laser. Optical Materials Express, 2017, 7, 3214.	3.0	35
75	Efficient laser emission in concentrated Nd laser materials under pumping into the emitting level. IEEE Journal of Quantum Electronics, 2002, 38, 240-245.	1.9	34
76	Tunability enhancement of a terahertz-wave parametric generator pumped by a microchip Nd:YAG laser. Applied Optics, 2009, 48, 2899.	2.1	34
77	Anisotropic Yb:FAP laser ceramics by micro-domain control. Optical Materials Express, 2014, 4, 2006.	3.0	34
78	Spectroscopy and laser emission under hot band resonant pump in highly doped Nd:YAG ceramics. Optics Communications, 2001, 195, 225-232.	2.1	33
79	High-resolution spectroscopy and emission decay in concentrated Nd:YAG ceramics. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 360.	2.1	33
80	Thermally-induced-birefringence effects of highly Nd3+-doped Y3Al5O12 ceramic lasers. Optical Materials, 2007, 29, 1271-1276.	3.6	33
81	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
82	Intracavity frequency doubling and Q switching in diode-laser-pumped Nd:YVO_4 lasers. Applied Optics, 1995, 34, 4298.	2.1	29
83	100-W quasi-continuous-wave diode radially pumped microchip composite Yb:YAG laser. Optics Letters, 2002, 27, 1791.	3.3	29
84	Basic enhancement of the overall optical efficiency of intracavity frequency-doubling devices for the 1â€‚Î¼m continuous-wave Nd:Y3Al5O12 laser emission. Applied Physics Letters, 2003, 83, 3653-3655.	3.3	28
85	High-power, widely tunable, room-temperature picosecond optical parametric oscillator based on cylindrical 5%MgO:PPLN. Optics Letters, 2015, 40, 3897.	3.3	28
86	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.	3.4	28
87	Generation of Hermiteâ€“Gaussian modes and vortex arrays based on two-dimensional gain distribution controlled microchip laser. Optics Letters, 2012, 37, 2661.	3.3	27
88	Widely tunable optical parametric oscillator in a 5Âmm thick 5% MgO:PPLN partial cylinder. Optics Letters, 2013, 38, 860.	3.3	27
89	Radial-Pumped Microchip High-Power Composite Yb:YAG Laser: Design and Power Characteristics. Japanese Journal of Applied Physics, 2001, 40, 146-152.	1.5	26
90	Continuous-wave ultraviolet generation at 354nm in a periodically poled MgO:LiNbO3 by frequency tripling of a diode end-pumped Nd:GdVO4 microlaser. Applied Physics Letters, 2004, 85, 3959-3961.	3.3	26

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91	Dual-wavelength source from 5%MgO:PPLN cylinders for the characterization of nonlinear infrared crystals. Optics Express, 2013, 21, 28886.	3.4	25
92	Efficient second to ninth harmonic generation using megawatt peak power microchip laser. Optics Express, 2013, 21, 28849.	3.4	25
93	High brightness energetic pulses delivered by compact microchip-MOPA system. Optics Express, 2018, 26, 8609.	3.4	25
94	Angular quasi-phase-matching. Physical Review A, 2007, 76, .	2.5	24
95	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.	3.1	24
96	Periodic Twinning in Crystal Quartz for Optical Quasi-Phase Matched Secondary Harmonic Conversion. Journal of Materials Research, 2004, 19, 969-972.	2.6	22
97	High-power continuous-wave intracavity frequency-doubled Nd:GdVO/sub 4/-LBO laser under diode pumping into the emitting level. IEEE Journal of Selected Topics in Quantum Electronics, 2005, 11, 631-637.	2.9	22
98	Highly efficient pumping configuration for microchip solid-state laser. Optics Express, 2006, 14, 670.	3.4	22
99	Continuous-wave diode-pumped laser action of Nd^3+-doped photo-thermo-refractive glass. Optics Letters, 2011, 36, 2257.	3.3	22
100	Large-aperture, axis-slant quasi-phase matching device using Mg-doped congruent LiNbO_3 [Invited]. Optical Materials Express, 2011, 1, 1376.	3.0	21
101	Orientation control of micro-domains in anisotropic laser ceramics. Optical Materials Express, 2013, 3, 829.	3.0	21
102	Palm-top size megawatt peak power ultraviolet microlaser. Optical Engineering, 2013, 52, 076102.	1.0	21
103	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.	1.3	21
104	Second-harmonic generations of blue light in nonlinear optical crystals of Gd_1â^’xLu_xCa_4O(BO_3)_3 and Gd_1â^’xSc_xCa_4O(BO_3)_3 through noncritical phase matching. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1630.	2.1	20
105	>30 MW peak power from distributed face cooling tiny integrated laser. Optics Express, 2019, 27, 30217.	3.4	20
106	240 kW peak power at 266 nm in nonlinear YAl_3(BO_3)_4 single crystal. Optics Express, 2014, 22, 30325.	3.4	19
107	>MW peak power at 266 nm, low jitter kHz repetition rate from intense pumped microlaser. Optics Express, 2016, 24, 28748.	3.4	19
108	Magnetic domains driving a Q-switched laser. Scientific Reports, 2016, 6, 38679.	3.3	19

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109	Magneto-optical Q-switching using magnetic garnet film with micromagnetic domains. Optics Express, 2016, 24, 17635.	3.4	19
110	Diode end-pumped passively Q-switched Nd:YAG laser intra-cavity frequency doubled by LBO crystal. Optics Communications, 2001, 195, 233-240.	2.1	18
111	Tailored Spectral Designing of Layer-by-Layer Type Composite Nd:Y $_{3}$ScAl$_{4}$O $_{12}$/Nd:Y$_{3}$ Al$_{5}$O$_{12}$ Ceramics. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 838-843.	2.9	18
112	Angular quasi-phase-matching experiments and determination of accurate Sellmeier equations for 5%MgO:PPLN. Optics Letters, 2009, 34, 2578.	3.3	18
113	100 Hz operation in 10 PW/srÂ·cm2 class Nd:YAG Micro-MOPA. Optics Express, 2019, 27, 19555.	3.4	18
114	Continuous-Wave Deep Blue Generation in a Periodically Poled MgO:LiNbO3Crystal by Single-Pass Frequency Doubling of a 912-nm Nd:GdVO4Laser. Japanese Journal of Applied Physics, 2004, 43, L1293-L1295.	1.5	17
115	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.	3.3	17
116	High-gain mid-infrared optical-parametric generation pumped by microchip laser. Optics Express, 2016, 24, 1046.	3.4	17
117	Continuous-wave high-power multi-pass pumped thin-disc Nd:GdVO4 laser. Optics Communications, 2006, 260, 271-276.	2.1	16
118	Crystal growth and optical properties of Bi4Si3O12:Nd. Journal of Crystal Growth, 2001, 229, 188-192.	1.5	15
119	Quasi phase-matched quartz for intense-laser pumped wavelength conversion. Optics Express, 2017, 25, 2369.	3.4	15
120	Model for the polarization dependence of the saturable absorption in Cr^4+:YAG. Optical Materials Express, 2017, 7, 577.	3.0	15
121	>50 MW peak power, high brightness Nd:YAG/Cr⁴⁺:YAG microchip laser with unstable resonator. Optics Express, 2022, 30, 5151.	3.4	15
122	Second-Harmonic Nonlinear Mirror CW Mode Locking in Yb:YAG Microchip Lasers. Japanese Journal of Applied Physics, 2003, 42, L649-L651.	1.5	14
123	High efficiency and high energy parametric wavelength conversion using a large aperture periodically poled MgO:LiNbO3. Optics Communications, 2008, 281, 3902-3905.	2.1	14
124	Efficient generation of highly squeezed light with periodically poled MgO:LiNbO_3. Optics Express, 2010, 18, 13114.	3.4	14
125	High peak power Nd:YAG/Cr:YAG ceramic microchip laser with unstable resonator. Optics Express, 2019, 27, 31307.	3.4	14
126	Improvement of laser-beam distortion in large-aperture PPMgLN device by using X-axis Czochralski-grown crystal. Optics Express, 2014, 22, 19668.	3.4	13

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127	Giant-pulse Nd:YVO_4 microchip laser with MW-level peak power by emission cross-sectional control. Optics Express, 2016, 24, 3137.	3.4	13
128	Temperature stable operation of YCOB crystal for giant-pulse green microlaser. Optics Express, 2017, 25, 6431.	3.4	13
129	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.	1.3	12
130	High-efficiency longitudinally-pumped miniature Nd:YVO4 laser. Optics and Laser Technology, 1998, 30, 275-280.	4.6	11
131	Process design of microdomains with quantum mechanics for giant pulse lasers. Scientific Reports, 2017, 7, 10732.	3.3	11
132	Concept for Measuring Laser Beam-Quality Parameters.. The Review of Laser Engineering, 1998, 26, 723-729.	0.0	9
133	Design and Performance of Compact Heatsink for High-Power Diode Edge-Pumped, Microchip Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 619-625.	2.9	9
134	High peak power, passively Q-switched Cr:YAG/Nd:YAG micro-laser for ignition of engines. , 2008, , .		9
135	Group-velocity-matched cascaded quadratic nonlinearities of femtosecond pulses in periodically poled MgO:LiNbO_3. Optics Letters, 2003, 28, 1442.	3.3	8
136	Characteristics of crystal quartz for high-intensity, sub-nanosecond wavelength conversion. Optical Materials Express, 2018, 8, 1259.	3.0	8
137	Pump-beam <inline-formula><roman>M</roman>^{<roman>2</roman>}</inline-formula> factor approximation for design of diode fiber-coupled end-pumped lasers. Optical Engineering, 1999, 38, 1806.	1.0	7
138	High-Performance Microchip Lasers Using Polycrystalline Nd:YAG Ceramics.. Journal of the Ceramic Society of Japan, 2000, 108, 428-430.	1.3	7
139	<title>Comparison of Nd:YAG single crystals and transparent ceramics as laser materials</title>. , 2004, 5581, 212.		7
140	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.	3.0	7
141	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
142	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.	3.4	7
143	Q-Switching and Mode Selection of Coupled-Cavity Er,Yb:Glass Lasers. Japanese Journal of Applied Physics, 1997, 36, L206-L208.	1.5	6
144	Novel Model of Thermal Conductivity for Optical Materials. The Review of Laser Engineering, 2008, 36, 1081-1084.	0.0	6

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145	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.	1.9	6
146	Study on the specific heat of Y3Al5O12 between 129â€…K and 573â€…K. Optical Materials Express, 2021, 11, 551.	3.0	6
147	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.	2.8	6
148	High-power edge pumped Yb:YAG single crystal/YAG ceramics hybrid microchip laser. , 2006, , .		5
149	High power, tunable microchip lasers. , 2007, , .		5
150	Temperature and Polarization Dependences of Cr:YAG Transmission for Passive Q-switching. , 2009, , .		5
151	Laser-induced damage study of bonded material for a high-brightness laser system. Optics Letters, 2022, 47, 3067.	3.3	5
152	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.	1.3	5
153	Thermal Birefringence in Nd:YAG Ceramics. , 2001, , ME14.		4
154	Continuous-wave high-power Nd:YAG-KNbO3 laser at. Optics and Laser Technology, 2004, 36, 581-585.	4.6	4
155	Generation of 6 Âµm 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
156	Passively Q-switched Nd:YAG microchip laser over 1-MW peak output power for micro drilling. , 2006, , .		4
157	Micro Solid-State Photonics - Review. The Review of Laser Engineering, 2009, 37, 227-234.	0.0	4
158	Development of Microchip Laser / Periodically Poled Stoichiometric LiTaO3 (PPSLT) for the Light Source of MALDI. The Review of Laser Engineering, 2009, 37, 290-295.	0.0	4
159	High Brightness Microchip Laser and Engine Ignition. The Review of Laser Engineering, 2010, 38, 576-584.	0.0	4
160	Diode edge-pumped passively Q-switched microchip laser. Optical Engineering, 2015, 54, 090501.	1.0	4
161	Randomly polarised beam produced by magnetooptically Q-switched laser. Scientific Reports, 2017, 7, 15398.	3.3	4
162	Compact, high peak power, passively Q-switched micro-laser for ignition of engines. , 2008, , .		4

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163	Polarity inversion of crystal quartz using a quasi-phase matching stamp. Optics Express, 2020, 28, 6505.	3.4	4
164	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.	2.3	4
165	Comparative study on the linear thermal expansion coefficient of laser host crystals by first principles calculations. Optical Materials Express, 0, , .	3.0	4
166	Generation of High Efficiency 2 Âµm Laser Pulse from a Periodically Poled 5 mol % MgO-Doped LiNbO3Optical Parametric Oscillator. Applied Physics Express, 2008, 1, 022007.	2.4	3
167	Lens-less edge-pumped high power microchip laser. Applied Physics Letters, 2012, 100, 141105.	3.3	3
168	Focus issue introduction: Advanced Solid-State Lasers (ASSL) 2013. Optics Express, 2014, 22, 8813.	3.4	3
169	Overview of Optical/Laser Technological Advances Leading to Practical Laser Ignition Systems. , 2015, , .		3
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