

# Takashige Omatsu

## List of Publications by Year in descending order

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289  
papers

4,395  
citations

147566  
31  
h-index

138251  
58  
g-index

292  
all docs

292  
docs citations

292  
times ranked

2283  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Optical Vortex To Control the Chirality of Twisted Metal Nanostructures. Nano Letters, 2012, 12, 3645-3649.	4.5	436
2	Transfer of Light Helicity to Nanostructures. Physical Review Letters, 2013, 110, 143603.	2.9	272
3	Metal microneedle fabrication using twisted light with spin. Optics Express, 2010, 18, 17967.	1.7	223
4	Optical-vortex laser ablation. Optics Express, 2010, 18, 2144.	1.7	208
5	Diode-pumped, self-stimulating, passively Q-switched Nd <sup>3+</sup> :PbWO <sub>4</sub> Raman laser. Optics Communications, 2001, 194, 401-407.	1.0	125
6	Light induced conch-shaped relief in an azo-polymer film. Scientific Reports, 2014, 4, 4281.	1.6	113
7	Picosecond optical vortex pulse illumination forms a monocrystalline silicon needle. Scientific Reports, 2016, 6, 21738.	1.6	106
8	A New Twist for Materials Science: The Formation of Chiral Structures Using the Angular Momentum of Light. Advanced Optical Materials, 2019, 7, 1801672.	3.6	89
9	Direct observation of the topological charge of a terahertz vortex beam generated by a Tsurupica spiral phase plate. Applied Physics Letters, 2014, 104, .	1.5	83
10	Wavelength-versatile optical vortex lasers. Journal of Optics (United Kingdom), 2017, 19, 123002.	1.0	82
11	Two-point-separation in super-resolution fluorescence microscope based on up-conversion fluorescence depletion technique. Optics Express, 2003, 11, 3271.	1.7	80
12	Direct generation of high power Laguerre-Gaussian output from a diode-pumped Nd:YVO <sub>4</sub> 1.3-μm bounce laser. Optics Express, 2007, 15, 7616.	1.7	79
13	Direct generation of a first-Stokes vortex laser beam from a self-Raman laser. Optics Express, 2013, 21, 12401.	1.7	58
14	Constructive spin-orbital angular momentum coupling can twist materials to create spiral structures in optical vortex illumination. Applied Physics Letters, 2016, 108, .	1.5	54
15	Optical vortex pumped mid-infrared optical parametric oscillator. Optics Express, 2011, 19, 12220.	1.7	49
16	Tunable 2-μm optical vortex parametric oscillator. Optics Express, 2012, 20, 23666.	1.7	45
17	MW ps pulse generation at sub-MHz repetition rates from a phase conjugate Nd:YVO <sub>4</sub> bounce amplifier. Optics Express, 2007, 15, 9123.	1.7	44
18	Thermal effects in laser diode pumped self-frequency-doubled Nd:YAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> (NYAB) microchip laser. Optics Communications, 1995, 118, 302-308.	1.0	43

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19	Thermal lensing measurements in line-focus end-pumped neodymium yttrium aluminium garnet using holographic lateral shearing interferometry. <i>Journal of Applied Physics</i> , 1998, 83, 2901-2906.	1.1	41
20	Two-color far-field super-resolution microscope using a doughnut beam. <i>Chemical Physics Letters</i> , 2003, 371, 634-639.	1.2	41
21	Passively Q-switched yellow laser formed by a self-Raman composite Nd:YVO <sub>4</sub> /YVO <sub>4</sub> crystal. <i>Applied Physics B: Lasers and Optics</i> , 2009, 97, 799-804.	1.1	39
22	Power scaling of a picosecond vortex laser based on a stressed Yb-doped fiber amplifier. <i>Optics Express</i> , 2011, 19, 994.	1.7	39
23	An intracavity, frequency-doubled self-Raman vortex laser. <i>Optics Express</i> , 2014, 22, 5400.	1.7	39
24	Waveguide dye laser including a SiO <sub>2</sub> nanoparticle-dispersed random scattering active layer. <i>Applied Physics Letters</i> , 2005, 86, 151123.	1.5	38
25	Sub-100 W picosecond output from a phase-conjugate Nd:YVO <sub>4</sub> bounce amplifier. <i>Optics Express</i> , 2009, 17, 20816.	1.7	37
26	Direct generation of red and orange optical vortex beams from an off-axis diode-pumped Pr <sup>3+</sup> :YLF laser. <i>Optics Express</i> , 2019, 27, 18190.	1.7	36
27	Efficient 1181 nm self-stimulating Raman output from transversely diode-pumped Nd <sup>3+</sup> :KGd(WO <sub>4</sub> ) <sub>2</sub> laser. <i>Optics Communications</i> , 2004, 232, 327-331.	1.0	35
28	Preparation and characterization of phospholipid-conjugated indocyanine green as a near-infrared probe. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 7481-7485.	1.0	35
29	High power picosecond vortex laser based on a large-mode-area fiber amplifier. <i>Optics Express</i> , 2009, 17, 14362.	1.7	34
30	Highly intense monocycle terahertz vortex generation by utilizing a Tsurupica spiral phase plate. <i>Scientific Reports</i> , 2016, 6, 38880.	1.6	33
31	Photopolymerization with Light Fields Possessing Orbital Angular Momentum: Generation of Helical Microfibers. <i>ACS Photonics</i> , 2018, 5, 4156-4163.	3.2	33
32	Heat generation in Nd doped vanadate crystals with 1.34 $\mu$ m laser action. <i>Optics Express</i> , 2005, 13, 4909.	1.7	32
33	High repetition rate Q-switching performance in transversely diode-pumped Nd doped mixed gadolinium yttrium vanadate bounce laser. <i>Optics Express</i> , 2006, 14, 2727.	1.7	32
34	Azo-polymer film twisted to form a helical surface relief by illumination with a circularly polarized Gaussian beam. <i>Optics Express</i> , 2017, 25, 12499.	1.7	32
35	Multicolored electrochromism in 4,4'-biphenyl dicarboxylic acid diethyl ester. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11838.	1.3	31
36	Tunable mid-infrared (63 $\mu$ m) optical vortex pulse generation. <i>Optics Express</i> , 2014, 22, 26351.	1.7	31

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37	Investigation of the fluorescence depletion process in the condensed phase; application to a tryptophan aqueous solution. <i>Chemical Physics Letters</i> , 2003, 372, 773-778.	1.2	30
38	>100kHz Q-switched operation in transversely diode-pumped ceramic Nd <sup>3+</sup> :YAG laser in bounce geometry. <i>Optics Communications</i> , 2005, 249, 531-537.	1.0	30
39	Nanosecond vortex laser pulses with millijoule pulse energies from a Yb-doped double-clad fiber power amplifier. <i>Optics Express</i> , 2011, 19, 14420.	1.7	29
40	Handedness control in a 2- $\lambda/4$ m optical vortex parametric oscillator. <i>Optics Express</i> , 2013, 21, 23604.	1.7	29
41	Plasmonic Manipulation-Controlled Chiral Crystallization of Sodium Chlorate. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4422-4426.	2.1	29
42	Generation of high-quality terahertz OAM mode based on soft-aperture difference frequency generation. <i>Optics Express</i> , 2019, 27, 31840.	1.7	29
43	Injection locking of a broad-area diode laser through a double phase-conjugate mirror. <i>Optics Communications</i> , 1998, 146, 6-10.	1.0	28
44	Over 10-watt pico-second diffraction-limited output from a Nd:YVO <sub>4</sub> slab amplifier with a phase conjugate mirror. <i>Optics Express</i> , 2005, 13, 8993.	1.7	28
45	Optical vortex pulse illumination to create chiral monocrystalline silicon nanostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1063-1068.	0.8	28
46	Nanoscale chiral surface relief of azo-polymers with nearfield OAM light. <i>Optics Express</i> , 2018, 26, 22197.	1.7	28
47	Dual-frequency picosecond optical parametric generator pumped by a Nd-doped vanadate bounce laser. <i>Optics Express</i> , 2011, 19, 18523.	1.7	25
48	The Current Trends in SBS and phase conjugation. <i>Laser and Particle Beams</i> , 2012, 30, 117-174.	0.4	25
49	Widely-tunable vortex output from a singly resonant optical parametric oscillator. <i>Optics Express</i> , 2015, 23, 18338.	1.7	24
50	Laguerre-Gaussian beam generation via enhanced intracavity spherical aberration. <i>Optics Express</i> , 2021, 29, 27783.	1.7	24
51	Direct generation of 523-nm orbital Poincaré mode from a diode-pumped Pr <sup>3+</sup> :LiYF <sub>4</sub> laser with an off-axis optical needle pumping geometry. <i>Optics Express</i> , 2021, 29, 30409.	1.7	24
52	Chirogenesis and Amplification of Molecular Chirality Using Optical Vortices. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12819-12823.	7.2	23
53	Broadband high-resolution terahertz single-pixel imaging. <i>Optics Express</i> , 2020, 28, 28868.	1.7	23
54	Measurement of thermal lensing in a CW BaWO <sub>4</sub> intracavity Raman laser. <i>Optics Express</i> , 2012, 20, 9810.	1.7	22

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55	Over 40-watt diffraction-limited Q-switched output from neodymium-doped YAG ceramic bounce amplifiers. Optics Express, 2006, 14, 8198.	1.7	21
56	Handedness control in a tunable midinfrared (60–125 $\mu\text{m}$ ) vortex laser. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 2406.	0.9	21
57	Predicted Spatial Resolution of Super-Resolving Fluorescence Microscopy Using Two-Color Fluorescence Dip Spectroscopy. Applied Spectroscopy, 2003, 57, 1312-1316.	1.2	19
58	Freezing of $\text{NaClO}_3$ Metastable Crystalline State by Optical Trapping in Unsaturated Microdroplet. Crystal Growth and Design, 2018, 18, 734-741.	1.4	19
59	Photopolymerization with high-order Bessel light beams. Optics Letters, 2020, 45, 4080.	1.7	19
60	Direct production of high-power radially polarized output from a side-pumped Nd:YVO <sub>4</sub> bounce amplifier using a photonic crystal mirror. Optics Express, 2008, 16, 10762.	1.7	18
61	Octave-band tunable optical vortex parametric oscillator. Optics Express, 2016, 24, 15204.	1.7	18
62	Interparticle-Interaction-Mediated Anomalous Acceleration of Nanoparticles under Light-Field with Coupled Orbital and Spin Angular Momentum. Nano Letters, 2019, 19, 4873-4878.	4.5	18
63	Ultraviolet intracavity frequency-doubled Pr <sup>3+</sup> :LiYF <sub>4</sub> orbital Poincaré laser. Optics Express, 2020, 28, 37397.	1.7	18
64	Optical vortex-induced forward mass transfer: manifestation of helical trajectory of optical vortex. Optics Express, 2019, 27, 38019.	1.7	18
65	Power scaling of highly neodymium-doped YAG ceramic lasers with a bounce amplifier geometry. Optics Express, 2005, 13, 7011.	1.7	17
66	Passive Q-switching of a diode-side-pumped Nd doped 1.3 $\mu\text{m}$ ceramic YAG bounce laser. Optics Communications, 2009, 282, 4784-4788.	1.0	17
67	Direct generation of 1108-nm and 1173-nm Laguerre-Gaussian modes from a self-Raman Nd:GdVO <sub>4</sub> laser. Optics Express, 2020, 28, 24095.	1.7	17
68	Azo-benzene polymer thin-film laser amplifier with grating couplers based on light-induced relief hologram. Optics Communications, 2003, 228, 279-283.	1.0	16
69	Diffraction Efficiency of Holographic Grating Formed in Au Nano particle-Doped Sol-Gel Silica Film by Laser Irradiation. Japanese Journal of Applied Physics, 2003, 42, 1288-1289.	0.8	16
70	Au-nano-particles production by pico-second ultra-violet laser deposition in Au-ion doped PMMA film. Chemical Physics Letters, 2004, 390, 166-169.	1.2	16
71	Passive Q-switching of a diode-side-pumped Nd-doped mixed gadolinium yttrium vanadate bounce laser. Applied Physics B: Lasers and Optics, 2008, 90, 445-449.	1.1	16
72	Optical vortex lattice mode generation from a diode-pumped Pr <sup>3+</sup> :LiYF <sub>4</sub> laser. Journal of Optics (United Kingdom), 2021, 23, 075502.	1.0	16

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73	Investigation of photorefractive phase conjugate feedback on the lasing spectrum of a broad-stripe laser diode. <i>Optics Communications</i> , 1998, 146, 167-172.	1.0	15
74	Highly efficient degenerate four-wave mixing with multipass geometries in a polymer laser dye saturable amplifier. <i>Optics Letters</i> , 1999, 24, 1620.	1.7	15
75	Highly efficient phase-conjugation of a 1 $\mu\text{m}$ pico-second Laguerre-Gaussian beam. <i>Optics Express</i> , 2006, 14, 2250.	1.7	15
76	Highly Efficient Long-Lifetime Dual-Layered Waveguide Dye Laser Containing SiO <sub>2</sub> Nanoparticle-Dispersed Random Scattering Active Media. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 112503.	0.8	15
77	Efficient high-quality picosecond Nd:YVO <sub>4</sub> bounce laser system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 894.	0.9	15
78	Ultraviolet vortex generation using periodically bonded $\text{BaB}_2\text{O}_4$ device. <i>Optics Express</i> , 2014, 22, 12829.	1.7	15
79	Plasmonic Heating-Assisted Laser-Induced Crystallization from a NaClO <sub>3</sub> Unsaturated Mother Solution. <i>Crystal Growth and Design</i> , 2017, 17, 809-818.	1.4	15
80	Twisted mass transport enabled by the angular momentum of light. <i>Journal of Nanophotonics</i> , 2020, 14, 1.	0.4	15
81	Transient thermal lensing measurement in a laser diode pumped Nd:YAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> laser using a holographic shearing interferometer. <i>Optics Communications</i> , 1997, 140, 237-241.	1.0	14
82	Highly efficient 1181nm output from a transversely diode-pumped Nd:KGd(WO <sub>4</sub> ) <sub>2</sub> self-stimulating Raman laser. <i>Optics Communications</i> , 2006, 260, 675-679.	1.0	14
83	Tunable near- and mid-infrared (1.36 $\mu\text{m}$ and 3.07 $\mu\text{m}$ ) optical vortex laser source. <i>Laser Physics Letters</i> , 2020, 17, 045402.	0.6	14
84	Generation of hexagonal close-packed ring-shaped structures using an optical vortex. <i>Nanophotonics</i> , 2022, 11, 855-864.	2.9	14
85	Intracavity spherical aberration for selective generation of single-transverse-mode Laguerre-Gaussian output with order up to 95. <i>Photonix</i> , 2022, 3, .	5.5	14
86	Characterization of a Pico-Second Phase Conjugate Nd:YVO <sub>4</sub> Laser System. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 2515-2518.	0.8	13
87	Broadband terahertz light source pumped by a 1 $\mu\text{m}$ picosecond laser. <i>Applied Physics B: Lasers and Optics</i> , 2013, 110, 321-326.	1.1	13
88	Terahertz wave generation using type II phase matching polarization combination via difference frequency generation with LiNbO <sub>3</sub> . <i>Japanese Journal of Applied Physics</i> , 2015, 54, 062202.	0.8	13
89	Purity and efficiency of hybrid orbital angular momentum-generating metasurfaces. <i>Journal of Nanophotonics</i> , 2020, 14, 1.	0.4	13
90	Tunable, visible phase conjugator with a saturable-amplifier polymer laser dye. <i>Optics Letters</i> , 1998, 23, 1432.	1.7	12

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91	Spatial Resolution Enhancement in BOTDR by Spectrum Separation Method. <i>Optical Review</i> , 2002, 9, 49-53.	1.2	12
92	Measurement of Contrast Transfer Function in Super-Resolution Microscopy Using Two-Color Fluorescence Dip Spectroscopy. <i>Applied Spectroscopy</i> , 2007, 61, 6-10.	1.2	12
93	Terahertz Phonon Modes of Highly Efficient Electro-optic Phenyltriene OH1 Crystals. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24360-24369.	1.5	12
94	A continuous-wave vortex Raman laser with sum frequency generation. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	1.1	12
95	Generating laser transverse modes analogous to quantum Green's functions of two-dimensional harmonic oscillators. <i>Photonics Research</i> , 2017, 5, 733.	3.4	12
96	Picosecond optical vortex-induced chiral surface relief in an azo-polymer film. <i>Journal of Nanophotonics</i> , 2020, 14, 1.	0.4	12
97	Thermal-lens measurement in a side-pumped 1.31 $\mu$ m Nd:YVO <sub>4</sub> bounce laser. <i>Optics Communications</i> , 2007, 277, 125-129.	1.0	11
98	Picosecond master-oscillator, power-amplifier system based on a mixed vanadate phase conjugate bounce amplifier. <i>Optics Express</i> , 2008, 16, 16382.	1.7	11
99	Frequency-doubling of an optical vortex output from a stressed Yb-doped fiber amplifier. <i>Applied Physics B: Lasers and Optics</i> , 2014, 116, 249-254.	1.1	11
100	Exploring the self-mode locking and vortex structures of nonplanar elliptical modes in selectively end-pumped Nd:YVO <sub>4</sub> lasers: manifestation of large fractional orbital angular momentum. <i>Optics Express</i> , 2017, 25, 22769.	1.7	11
101	Ultra-widely tunable mid-infrared (6-18 $\mu$ m) optical vortex source. <i>Applied Optics</i> , 2018, 57, 620.	0.9	11
102	Plasmonic Trapping-Induced Crystallization of Acetaminophen. <i>Crystal Growth and Design</i> , 2019, 19, 529-537.	1.4	11
103	Near and mid-infrared optical vortex parametric oscillator based on KTA. <i>Scientific Reports</i> , 2021, 11, 8013.	1.6	11
104	Investigation of laser-induced-metal phase of MoTe <sub>2</sub> and its contact property via scanning gate microscopy. <i>Nanotechnology</i> , 2020, 31, 205205.	1.3	11
105	Formation of nano-dots of phenylazomethine dendrimers with Rhodamine 6G on mica. <i>Polymers for Advanced Technologies</i> , 2004, 15, 159-163.	1.6	10
106	Efficient frequency extension of a diode-side-pumped Nd:YAG laser by intracavity SRS in crystalline materials. <i>Optics Communications</i> , 2004, 242, 575-579.	1.0	10
107	Optical phase conjugation of picosecond pulses at 1064 $\mu$ m in Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> :Te for wavefront correction in high-power Nd-doped amplifier systems. <i>Optics Express</i> , 2010, 18, 87.	1.7	10
108	Focus issue introduction: synergy of structured light and structured materials. <i>Optics Express</i> , 2017, 25, 16681.	1.7	10

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109	In Situ Observation of Chiral Symmetry Breaking in NaClO <sub>3</sub> Chiral Crystallization Realized by Thermoplasmonic Micro-Stirring. <i>Crystal Growth and Design</i> , 2018, 18, 4230-4239.	1.4	10
110	High Sensitive Detection of Trace Gases Using Optical Heterodyne Method with a High Finesse Intra-Cavity Resonator. <i>Optical Review</i> , 1996, 3, 243-250.	1.2	9
111	High average power, diffraction-limited picosecond output from a sapphire face-cooled Nd:YVO <sub>4</sub> slab amplifier. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 714.	0.9	9
112	Bottle beam generation from a frequency-doubled Nd:YVO <sub>4</sub> laser. <i>Scientific Reports</i> , 2018, 8, 16576.	1.6	9
113	Tunable 3 $\mu\text{m}$ optical vortex parametric oscillator. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 122701.	0.8	9
114	Nanotwist of aluminum with irradiation of a single optical vortex pulse. <i>OSA Continuum</i> , 2021, 4, 403.	1.8	9
115	Optical vortex-induced forward mass transfer: manifestation of helical trajectory of optical vortex. <i>Optics Express</i> , 2019, 27, 38019.	1.7	9
116	Laser-induced forward-transfer with light possessing orbital angular momentum. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2022, 52, 100535.	5.6	9
117	High Quality 7.5 W Continuous-Wave Operation of a Nd:YVO <sub>4</sub> Laser with a Rh:BaTiO <sub>3</sub> Phase Conjugate Mirror. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 2024-2027.	0.8	8
118	1.3- $\mu\text{m}$ passive Q-switching of a Nd-doped mixed vanadate bounce laser in combination with a V:YAG saturable absorber. <i>Applied Physics B: Lasers and Optics</i> , 2010, 101, 65-70.	1.1	8
119	Picosecond-Pulse-Pumped Distributed-Feedback Thick-Film Waveguide Blue Laser Using Fluorescent Brightener 135. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 072105.	0.8	8
120	Tunable near-infrared optical vortex parametric laser with versatile orbital angular momentum states. <i>Applied Optics</i> , 2018, 57, 10004.	0.9	8
121	Broadband THz-wave generation by satisfying the noncollinear phase-matching condition with a reflected signal beam. <i>Applied Optics</i> , 2013, 52, 8305.	0.9	7
122	Evaluation of polarized terahertz waves generated by Cherenkov phase matching. <i>Applied Optics</i> , 2014, 53, 1518.	0.9	7
123	Beam propagation of efficient frequency-doubled optical vortices. <i>Applied Optics</i> , 2016, 55, 5263.	2.1	7
124	Plasmonic Manipulation of Sodium Chlorate Chiral Crystallization: Directed Chirality Transfer via Contact-Induced Polymorphic Transformation and Formation of Liquid Precursor. <i>Crystal Growth and Design</i> , 2020, 20, 5493-5507.	1.4	7
125	Parametric Study On The Second Harmonic Generation Of A Copper Vapor Laser. <i>Proceedings of SPIE</i> , 1989, 1041, 60.	0.8	6
126	Tunable phase conjugation by intracavity degenerate four-wave mixing in an injection-seeded solid dye laser. <i>Optics Letters</i> , 2000, 25, 1267.	1.7	6



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127	Ultra-broadband tunable (0.67–2.57 $\mu\text{m}$ ) optical vortex parametric oscillator. Japanese Journal of Applied Physics, 2017, 56, 102701.	0.8	6
128	Microneedle structuring of Si(111) by irradiation with picosecond optical vortex pulses. Applied Physics Express, 2020, 13, 062006.	1.1	6
129	Optical vortex array for two-dimensional exclusive-OR operation. Applied Physics B: Lasers and Optics, 2022, 128, .	1.1	6
130	Evolution of the spatial coherence in a copper vapor laser. Optics Communications, 1992, 92, 50-56.	1.0	5
131	Intra-pulse decrease of M2 of a copper vapor laser beam. Optics Communications, 1993, 101, 199-204.	1.0	5
132	Saturation of the conversion efficiency of second harmonic generation of a copper vapor laser. Optics Communications, 1993, 97, 65-68.	1.0	5
133	Modal Power Analysis for Two-Mode Fibers Illuminated by an Offset Beam Based on Near Field Pattern Measurement. Optical Review, 1999, 6, 330-333.	1.2	5
134	Efficient self-pumped phase conjugation with a loop geometry in a Rhodamine-6G solid dye laser amplifier. Optics Express, 2003, 11, 176.	1.7	5
135	Two-Point Separation in Far-Field Super-Resolution Fluorescence Microscopy Based on Two-Color Fluorescence Dip Spectroscopy, Part I: Experimental Evaluation. Applied Spectroscopy, 2005, 59, 868-872.	1.2	5
136	Terahertz bolometric detection by thermal noise in graphene field effect transistor. Applied Physics Letters, 2015, 107, .	1.5	5
137	Power-scalable and high-speed orbital angular momentum modulator. Japanese Journal of Applied Physics, 2019, 58, 032009.	0.8	5
138	Chirogenesis and Amplification of Molecular Chirality Using Optical Vortices. Angewandte Chemie, 2021, 133, 12929-12933.	1.6	5
139	Generation of coupled orbital angular momentum modes from an optical vortex parametric laser source. Optics Express, 2019, 27, 37025.	1.7	5
140	Tunable terahertz Bessel beams with orbital angular momentum. , 2022, 1, 633.		5
141	Suppression of Self-Frequency-Scanning and Brightness Improvement of a Broad-Stripe Laser Diode using Phase Conjugate Feedback. Japanese Journal of Applied Physics, 1999, 38, 3522-3525.	0.8	4
142	Thermal conductivity of a self-frequency-doubling laser crystal measured by use of optical methods. Applied Optics, 2001, 40, 1372.	2.1	4
143	Phase conjugation of pico-second pulses by four wave mixing in a Nd:YVO4 slab amplifier. Optics Express, 2005, 13, 3506.	1.7	4
144	THz-wave sensing via pump and signal wave detection interacted with evanescent THz waves. Optics Letters, 2013, 38, 3687.	1.7	4

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145	Propagation-invariant vortex Airy beam whose singular point follows its main lobe. <i>New Journal of Physics</i> , 2021, 23, 113043.	1.2	4
146	Second Harmonic Generation of a Copper Vapor Laser Using an Anamorphic Optical System. <i>Japanese Journal of Applied Physics</i> , 1994, 33, 4903-4904.	0.8	3
147	Quantitative Measurement of Thermal Lens in Diode-Laser Pumped Self-Frequency-Doubled Nd:Lu:YAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> Laser under Lasing and Non-Lasing Conditions. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 6335-6339.	0.8	3
148	A Novel Phase Conjugate Broad-Stripe Diode Laser with an External Ring Geometry. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 606-608.	0.8	3
149	Polarization state fixer composed of passive optical devices. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 342.	0.8	3
150	Efficient phase conjugation by pico-second four-wave-mixing in solid-dye amplifier. <i>Optics Express</i> , 2004, 12, 1243.	1.7	3
151	GR-FET application for high-frequency detection device. <i>Nanoscale Research Letters</i> , 2013, 8, 22.	3.1	3
152	Ultraviolet optical vortex generation using a pair of $\hat{\Gamma}^2$ -BaB <sub>2</sub> O <sub>4</sub> crystals with inverted orientations. <i>Applied Optics</i> , 2017, 56, 8075.	0.9	3
153	Optical Vortices Illumination Enables the Creation of Chiral Nanostructures. , 0, , .		3
154	In Situ Microscopic Observation on Surface Kinetics in Optical Trapping-Induced Crystal Growth: Step Formation, Wetting Transition, and Nonclassical Growth. <i>Crystal Growth and Design</i> , 2019, 19, 4138-4150.	1.4	3
155	Symmetry Breaking of Optical Vortex in Bacteriorhodopsin Suspensions. , 2019, , .		3
156	Direct Generation of Vortex Lattice Modes from an Intracavity Frequency Doubled Pr:YLF laser. , 2021, , .		3
157	Tunable 2.3 $\mu$ m optical vortex parametric laser. <i>Laser Physics</i> , 2022, 32, 045001.	0.6	3
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