

Shunichi Sato

List of Publications by Year in descending order

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155
papers

3,914
citations

126708

33
h-index

128067

60
g-index

157
all docs

157
docs citations

157
times ranked

2434
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of a radially polarized laser beam by use of a conical Brewster prism. <i>Optics Letters</i> , 2005, 30, 3063.	1.7	346
2	Optical trapping of micrometer-sized dielectric particles by cylindrical vector beams. <i>Optics Express</i> , 2010, 18, 10828.	1.7	236
3	Sharper focal spot formed by higher-order radially polarized laser beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 1793.	0.8	200
4	Superresolution imaging via superoscillation focusing of a radially polarized beam. <i>Optica</i> , 2018, 5, 86.	4.8	194
5	Generation of a radially polarized laser beam by use of the birefringence of a c-cut Nd:YVO4 crystal. <i>Optics Letters</i> , 2006, 31, 2151.	1.7	187
6	Focusing property of a double-ring-shaped radially polarized beam. <i>Optics Letters</i> , 2006, 31, 820.	1.7	169
7	Calculation of optical trapping forces on a dielectric sphere in the ray optics regime produced by a radially polarized laser beam. <i>Optics Letters</i> , 2007, 32, 1839.	1.7	162
8	Optical trapping of microscopic metal particles. <i>Optics Letters</i> , 1994, 19, 1807.	1.7	152
9	Generation of hollow scalar and vector beams using a spot-defect mirror. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010, 27, 2072.	0.8	126
10	Visualizing hippocampal neurons with in vivo two-photon microscopy using a 1030 nm picosecond pulse laser. <i>Scientific Reports</i> , 2013, 3, 1014.	1.6	117
11	Lateral resolution enhancement of laser scanning microscopy by a higher-order radially polarized mode beam. <i>Optics Express</i> , 2011, 19, 15947.	1.7	105
12	Polarization singularities in superposition of vector beams. <i>Optics Express</i> , 2013, 21, 8972.	1.7	93
13	In vivo two-photon imaging of mouse hippocampal neurons in dentate gyrus using a light source based on a high-peak power gain-switched laser diode. <i>Biomedical Optics Express</i> , 2015, 6, 891.	1.5	80
14	Resolution enhancement of confocal microscopy by subtraction method with vector beams. <i>Optics Letters</i> , 2014, 39, 3118.	1.7	75
15	Self-healing of tightly focused scalar and vector Bessel-Gauss beams at the focal plane. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2011, 28, 837.	0.8	74
16	Fabrication of gold nanoparticles in intense optical field by femtosecond laser irradiation of aqueous solution. <i>Journal of Materials Research</i> , 2008, 23, 968-974.	1.2	71
17	Hollow vortex beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009, 26, 142.	0.8	62
18	Fabrication of silver nanoparticles by highly intense laser irradiation of aqueous solution. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 1021-1024.	1.1	59

#	ARTICLE	IF	CITATIONS
19	Synthesis of Near-Monodispersed Au-Ag Nanoalloys by High Intensity Laser Irradiation of Metal Ions in Hexane. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21592-21598.	1.5	46
20	7-ps optical pulse generation from a 1064-nm gain-switched laser diode and its application for two-photon microscopy. <i>Optics Express</i> , 2014, 22, 5746.	1.7	45
21	Compact Laser with Radial Polarization Using Birefringent Laser Medium. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 5160.	0.8	44
22	Cylindrical Vector Laser Beam Generated by the Use of a Photonic Crystal Mirror. <i>Applied Physics Express</i> , 0, 1, 022008.	1.1	44
23	Subtraction imaging by the combination of higher-order vector beams for enhanced spatial resolution. <i>Optics Letters</i> , 2019, 44, 883.	1.7	43
24	Demonstration of subtraction imaging in confocal microscopy with vector beams. <i>Optics Letters</i> , 2014, 39, 4529.	1.7	42
25	Micro-hole drilling by tightly focused vector beams. <i>Optics Letters</i> , 2018, 43, 1542.	1.7	42
26	Simultaneous generation of helical beams with linear and radial polarization by use of a segmented half-wave plate. <i>Optics Letters</i> , 2008, 33, 399.	1.7	41
27	Focusing of higher-order radially polarized Laguerre-Gaussian beam. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, 2439.	0.8	41
28	Generation of a Purely Single Transverse Mode Vortex Beam from a He-Ne Laser Cavity with a Spot-Defect Mirror. <i>International Journal of Optics</i> , 2012, 2012, 1-6.	0.6	40
29	Numerical analysis of resolution enhancement in laser scanning microscopy using a radially polarized beam. <i>Optics Express</i> , 2015, 23, 2076.	1.7	39
30	Spectroscopic study of gold nanoparticle formation through high intensity laser irradiation of solution. <i>AIP Advances</i> , 2013, 3, .	0.6	38
31	Generation of a cylindrically symmetric, polarized laser beam with narrow linewidth and fine tunability. <i>Optics Express</i> , 2006, 14, 12839.	1.7	36
32	Selective oscillation of radially and azimuthally polarized laser beam induced by thermal birefringence and lensing. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 708.	0.9	36
33	Synthesis of platinum-based binary and ternary alloy nanoparticles in an intense laser field. <i>Journal of Colloid and Interface Science</i> , 2012, 375, 78-87.	5.0	35
34	Generation of radially polarized Bessel-Gaussian beams from c-cut Nd:YVO ₄ laser. <i>Optics Letters</i> , 2014, 39, 1101.	1.7	35
35	Observation of the longitudinal field of a focused laser beam by second-harmonic generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 175.	0.9	30
36	Interferometry with Vortices. <i>International Journal of Optics</i> , 2012, 2012, 1-18.	0.6	30

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37	Improvement of lateral resolution and extension of depth of field in two-photon microscopy by a higher-order radially polarized beam. <i>Microscopy (Oxford, England)</i> , 2014, 63, 23-32.	0.7	28
38	Dark-spot formation by vector beams. <i>Optics Letters</i> , 2008, 33, 2326.	1.7	27
39	Diffractive properties of obstructed vector Laguerre-Gaussian beam under tight focusing condition. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2011, 28, 1387.	0.8	27
40	Resolving Atomic Ordering Differences in Group 11 Nanosized Metals and Binary Alloy Catalysts by Resonant High-Energy X-ray Diffraction and Computer Simulations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22131-22141.	1.5	25
41	Fabrication of platinum particles by intense, femtosecond laser pulse irradiation of aqueous solution. <i>Applied Surface Science</i> , 2009, 255, 9630-9633.	3.1	24
42	Second-harmonic and sum-frequency generation from optically trapped KTiOPO ₄ microscopic particles by use of Nd:YAG and Ti:Al ₂ O ₃ lasers. <i>Optics Letters</i> , 1994, 19, 927.	1.7	23
43	Laser microprocessing of metal surfaces using a tightly focused radially polarized beam. <i>Optics Letters</i> , 2020, 45, 6234.	1.7	23
44	Composition-controlled ternary Rh-Pd-Pt solid-solution alloy nanoparticles by laser irradiation of mixed solution of metallic ions. <i>Journal of Materials Research</i> , 2014, 29, 856-864.	1.2	21
45	Fabrication of Rh based solid-solution bimetallic alloy nanoparticles with fully-tunable composition through femtosecond laser irradiation in aqueous solution. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 145-152.	1.1	20
46	Femtosecond Laser-Induced Formation of Gold-Rich Nanoalloys from the Aqueous Mixture of Gold-Silver Ions. <i>Journal of Nanomaterials</i> , 2010, 2010, 1-9.	1.5	19
47	Femtosecond laser synthesis of bimetallic Pt-Au nanoparticles. <i>Materials Letters</i> , 2011, 65, 804-807.	1.3	19
48	Fabrication of solid-solution gold-platinum nanoparticles with controllable compositions by high-intensity laser irradiation of solution. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	19
49	Generation of radially polarized Ti:sapphire laser beam using a c-cut crystal. <i>Optics Letters</i> , 2008, 33, 1984.	1.7	18
50	Fabrication of ZnO thin films by femtosecond pulsed laser deposition. <i>Optics and Laser Technology</i> , 2010, 42, 1337-1339.	2.2	18
51	Focusing of radially and azimuthally polarized beams through a uniaxial crystal. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 469.	0.8	17
52	Radially polarized annular beam generated through a second-harmonic-generation process. <i>Optics Letters</i> , 2009, 34, 3166.	1.7	17
53	High-power and highly efficient amplification of a radially polarized beam using an Yb-doped double-clad fiber. <i>Optics Letters</i> , 2014, 39, 2857.	1.7	17
54	Two-photon excitation STED microscopy by utilizing transmissive liquid crystal devices. <i>Optics Express</i> , 2014, 22, 28215.	1.7	17

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55	Synthesis of gold nanoparticle colloids by highly intense laser irradiation of aqueous solution by flow system. Applied Physics A: Materials Science and Processing, 2015, 120, 881-888.	1.1	16
56	Single higher-order transverse mode operation of a radially polarized Nd:YAG laser using an annularly reflectivity-modulated photonic crystal coupler. Optics Letters, 2008, 33, 2278.	1.7	15
57	The Synthesis and Photocatalytic Properties of Nitrogen Doped TiO ₂ Films Prepared Using the AC-PLD Method. Topics in Catalysis, 2009, 52, 1592-1597.	1.3	15
58	Transverse mode control by manipulating gain distribution in a Yb:YAG ceramic thin disk. Optics Letters, 2011, 36, 4137.	1.7	14
59	All-proportional solid-solution Rh-Pd-Pt alloy nanoparticles by femtosecond laser irradiation of aqueous solution with surfactant. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	14
60	Electrochemical Water Oxidation Catalysed by Co ₂ O ₃ -Co(OH) ₂ Multiphase Nanoparticles Prepared by Femtosecond Laser Ablation in Water. ChemistrySelect, 2018, 3, 4979-4984.	0.7	14
61	Imaging with a longitudinal electric field in confocal laser scanning microscopy to enhance spatial resolution. Optics Express, 2020, 28, 18418.	1.7	14
62	Demonstration and selection of a single-transverse higher-order-mode beam with radial polarization. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 399.	0.8	13
63	Generation of a vector doughnut beam from an internal mirror He-Ne laser. Optics Letters, 2014, 39, 2080.	1.7	12
64	Transverse-mode selective laser operation by unicursal fast-scanning pumping. Optics Letters, 2015, 40, 3245.	1.7	12
65	Adaptive Optical Two-Photon Microscopy for Surface-Profiled Living Biological Specimens. ACS Omega, 2021, 6, 438-447.	1.6	12
66	Direct generation of the lowest-order vortex beam using a spot defect mirror in the ultraviolet region. Optics Letters, 2020, 45, 2115.	1.7	10
67	Chemical surface modification of graphene oxide by femtosecond laser pulse irradiation in aqueous suspensions. Journal of Materials Science, 2017, 52, 749-759.	1.7	9
68	Light needle microscopy with spatially transposed detection for axially resolved volumetric imaging. Scientific Reports, 2019, 9, 11687.	1.6	9
69	Enhanced catalytic activity of inhomogeneous Rh-based solid-solution alloy nanoparticles. RSC Advances, 2019, 9, 38882-38890.	1.7	9
70	Wavefront engineered light needle microscopy for axially resolved rapid volumetric imaging. Biomedical Optics Express, 2022, 13, 1702.	1.5	9
71	Chain of optical vortices synthesized by a Gaussian beam and the double-phase-ramp converter. OSA Continuum, 2019, 2, 320.	1.8	8
72	Vector beam generation from vertical cavity surface emitting lasers. Optics Letters, 2018, 43, 5659.	1.7	8

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73	Spectroscopic monitoring on irradiation-induced formation of AuAg alloy nanoparticles by femtosecond laser. AIP Conference Proceedings, 2016, , .	0.3	7
74	Amplification of a radially polarized laser beam using an Yb-doped double-clad fiber. Optics Letters, 2009, 34, 716.	1.7	6
75	Green and Facile Synthesis of Pd-Pt Alloy Nanoparticles by Laser Irradiation of Aqueous Solution. Journal of Nanoscience and Nanotechnology, 2015, 15, 426-432.	0.9	6
76	Small focal spot formation by vector beams. Progress in Optics, 2021, , 35-90.	0.4	6
77	Enhanced Isotope Separation of Rubidium by Light-Induced Drift Using Backpumping. Materials Transactions, JIM, 1996, 37, 1789-1792.	0.9	5
78	Twisted longitudinally polarized field in the focal region. Applied Physics B: Lasers and Optics, 2013, 110, 7-14.	1.1	5
79	Electron Round Lenses with Negative Spherical Aberration by a Tightly Focused Cylindrically Polarized Light Beam. Physical Review Applied, 2021, 16, .	1.5	5
80	Observation of Light-Induced Drift Effect of Rubidium by Using Two Diode Lasers for Pumping and Re-Pumping. Materials Transactions, 2008, 49, 2632-2635.	0.4	4
81	Polarization coupling of vector Bessel-Gaussian beams. Journal of Optics (United Kingdom), 2013, 15, 075710.	1.0	4
82	Mechanical C-C Bond Formation by Laser Driven Shock Wave. ChemPhysChem, 2020, 21, 2104-2111.	1.0	4
83	Formation of C2 organic molecules from CO ₂ and H ₂ O by femtosecond laser induced chemical reactions in water. Japanese Journal of Applied Physics, 2020, 59, 057001.	0.8	4
84	Creating electron phase holograms using femtosecond laser interference processing. Optics Express, 2019, 27, 20958.	1.7	4
85	Ultrafast laser ablation of 10-nm self-supporting membranes by two-beam interference processing. Optics Express, 2020, 28, 26200.	1.7	4
86	Single-scan volumetric imaging throughout thick tissue specimens by one-touch installable light-needle creating device. Scientific Reports, 2022, 12, .	1.6	4
87	Core-shell like Au-Ir nanoparticles with spatially variant electronic state of Au synthesized by femtosecond laser irradiation of solution. Applied Surface Science, 2018, 457, 1044-1049.	3.1	3
88	Synthesis of Noble Metals and Their Alloy Nanoparticles by Laser-Induced Nucleation in a Highly Intense Laser Field. KONA Powder and Particle Journal, 2022, 39, 110-118.	0.9	3
89	Nonlinear optical properties of Rh-Pd and Rh-Pt solid-solution alloy nanoparticles prepared by a laser-induced nucleation method in aqueous solution. OSA Continuum, 2019, 2, 2891.	1.8	3
90	<title>Thin film synthesis with ultrafast lasers</title>. , 1998, , .		2

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91	Semiconductor laser based, injection locking maintaining broad linewidth generated by a direct current modulation of a master laser. Review of Scientific Instruments, 2006, 77, 096107.	0.6	2
92	Synthesis of monodispersed DLC nanoparticles in intense optical field by femtosecond laser ablation of liquid benzene. , 2007, , .		2
93	Characterization of alkaline earth metals ruthenate thin films. Journal of the European Ceramic Society, 2010, 30, 435-440.	2.8	2
94	Observation of PDLCs by SHG laser scanning microscopy using a liquid crystal vector beam generator. , 2012, , .		2
95	Singular Optics. International Journal of Optics, 2012, 2012, 1-2.	0.6	2
96	Super-Oscillation by Higher-Order Radially Polarized Laguerre-Gaussian Beams. , 2016, , .		2
97	Comparison of Carbon, Aluminum, Silicon and Copper Films Deposited by High Peak Intensity Laser Ablation. Japanese Journal of Applied Physics, 1997, 36, L1328-L1330.	0.8	1
98	Evidence of the Light-Induced Drift Effect in Lithium Vapor. Materials Transactions, JIM, 2000, 41, 1108-1110.	0.9	1
99	Thin Film Deposition of Boron Nitride by Femtosecond Laser Pulses with Different Wavelengths. Japanese Journal of Applied Physics, 2002, 41, 7506-7507.	0.8	1
100	Two Step Deceleration of Cesium Atomic Beam by Frequency Modulated Diode Lasers. Optical Review, 2005, 12, 456-459.	1.2	1
101	X ç;šè;~éÇá;žæŠ~æ³•ã«ã,ã,«éí~ã^†ç;«âCE-ãfã,ãf³é...âCE-ç%©è-,è†œã®è©•ã³/4j. Shinku/Journal of the Vacuum Society of Japan, 2000, 31, 100-103.		1
102	Generation of Cylindrical Vector Beams from a Nd:YAG Laser Cavity including a c-cut YVO₄ Crystal. , 2007, , .		1
103	Unfolding of optical singularities in vector Laguerre-Gaussian beams. , 2015, , .		1
104	780nm-range VCSEL array for laser printer system and other applications at Ricoh. , 2016, , .		1
105	Photochemical reduction of graphene oxide (GO) by femtosecond laser irradiation. , 2016, , .		1
106	Long Depth-of-Focus Imaging by a Non-Diffracting Optical Needle under Strong Aberration. , 2017, , .		1
107	Generation of Robust Doughnut Mode Beam from Internal Mirror He-Ne Laser. , 2012, , .		1
108	Transverse mode conversion by second harmonic generation using axially symmetric, polarized laser beams. , 2008, , .		1

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109	Fabrication of gold-platinum nanoparticles by intense, femtosecond laser irradiation of aqueous solution. , 2009, , .		1
110	Laser Interference Processing of Electron Phase Holograms by Using a Femtosecond Laser. , 2019, , .		1
111	Single-Mode Operation of Broad-Area Diode Laser at 670 nm by External Cavity Configuration with a Diffraction Grating. Optical Review, 2000, 7, 573-575.	1.2	0
112	<title>Wide spectral width of frequency-shifted-feedback semiconductor laser</title>. , 2004, , .		0
113	Velocity Control of Cesium Atomic Beam Using Two Frequency-Modulated External-Cavity Diode Lasers. Japanese Journal of Applied Physics, 2006, 45, 8910-8914.	0.8	0
114	Synthesis of monodispersed DLC nanoparticles in intense optical field by femtosecond laser ablation of liquid benzene. , 2007, , .		0
115	<title>Generation of a radially polarized Nd:YVO<formula><inf><roman>4</roman></inf></formula> laser beam</title>. Proceedings of SPIE, 2007, , .	0.8	0
116	<title>Thin film synthesis of wurtzite boron nitride by femtosecond pulsed laser deposition</title>. Proceedings of SPIE, 2007, , .	0.8	0
117	Fabrication of noble metal nanoparticles in intense optical field by femtosecond laser irradiation of aqueous solution. , 2008, , .		0
118	TM01 mode operation of an Yb-doped double-clad fiber amplifier. , 2009, , .		0
119	Selective TM01 and TE01 mode operation of Nd:YAG laser based on cavity stability incorporating thermal effects. , 2009, , .		0
120	Epitaxial growth of BaRuO<sub>3</sub> thin films on MgO substrates by laser ablation. Journal of the Ceramic Society of Japan, 2009, 117, 426-430.	0.5	0
121	Generation of Cylindrical Vector Beams of a Single Higher Order Transverse Mode. , 2010, , .		0
122	Formation of highly dispersed AuAg nanoalloys by femtosecond laser irradiation of metal salts in normal hexane. , 2011, , .		0
123	Super-resolution imaging of lateral distribution for the blue-light emission of an InGaN single-quantum-well structure utilizing the stimulated emission depletion effect. Optics Express, 2014, 22, 22575.	1.7	0
124	Enhanced Spatial Resolution in Confocal Laser Microscopy by Subtractive Imaging Using Vector Beams. , 2014, , .		0
125	Enhanced Detection of Longitudinal Field of a Radially Polarized Beam in Confocal Laser Microscopy. , 2015, , .		0
126	Acceleration of Micro-Hole Drilling by an Azimuthally Polarized Laser Beam under Tight Focusing Condition. , 2018, , .		0

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127	Velocity Distribution Control of Cesium Atoms by Frequency Modulated Diode Laser. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2001, 65, 534-538.	0.2	0
128	Generation of Ti: sapphire laser beam with radial polarization. , 2008, , .		0
129	Axially symmetric, polarized laser. The Review of Laser Engineering, 2008, 36, 41-42.	0.0	0
130	Second harmonic generation using axially symmetric, polarized beams with spatial variation of ellipticity. , 2008, , .		0
131	Generation of beams with spiral phase shift using a divided half waveplate in a laser cavity. , 2008, , .		0
132	Spatial Resolution for Fluorescence Depletion Microscopy Using Axial Electric Field Generated by Focused Radially Polarized Beams. , 2009, , .		0
133	Optical Trapping Efficiency Measured for Dielectric Particles by Using Cylindrical Vector Beams. , 2009, , .		0
134	Selective generation of radially polarized Nd:YAG laser beams of higher-order transverse mode. , 2009, , .		0
135	The effect of the longitudinal electric field of a radially polarized laser beam for second harmonic generation. , 2010, , .		0
136	Fabrication of gold-platinum nanoparticles by intense, femtosecond laser irradiation of aqueous solution. , 2010, , .		0
137	Generation of an Azimuthally Polarized Laser Beam from an End-pumped Laser Cavity with a c-cut Nd:YVO4 Crystal. , 2011, , .		0
138	Resolution Enhancement in Confocal Scanning Microscopy by a Radially Polarized Beam with Phase Modulation. , 2011, , .		0
139	Dark Spot Trapping using a Double-Ring-Shaped Radially Polarized Beam. , 2011, , .		0
140	Transverse Mode Control by a Crossing Pair of Linearly Pumped Regions in a Yb:YAG Ceramic Thin Disk. , 2011, , .		0
141	Enhanced Detection of a Longitudinal Electric Field for a Linearly Polarized Gaussian Beam. , 2011, , .		0
142	Transverse Mode Control by a Crossing Pair of Linearly Pumped Regions in a Yb:YAG Ceramic Thin Disk. , 2011, , .		0
143	Vector Bessel-Gaussian Beam Generation from a c-cut Nd:YVO4 Crystal with an Annular-Shaped Gain. , 2012, , .		0
144	Analysis of Small Focal Spot Formation by a Higher-Order Radially Polarized Laguerre-Gaussian Beam. , 2013, , .		0

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145	Direct Manipulation of Transverse Mode of a Yb:YAG Laser by a Scanning Pump Beam. , 2014, , .		0
146	Polarization singularities in superposition of counter-propagating vector Laguerre-Gaussian beams. , 2014, , .		0
147	Smaller Spot Formation by Vector Beam for Higher Resolution Microscopy. , 2015, , .		0
148	Preface to The Special Issue on "Leading Edge of Neurophotonics" The Review of Laser Engineering, 2016, 44, 222.	0.0	0
149	Generation of Cylindrical Vector Beams from Vertical-Cavity Surface-Emitting Laser with Optical Feedback. , 2018, , .		0
150	Improvement of two-photon microscopic imaging in deep regions of living mouse brains by utilizing a light source based on an electrically controllable gain-switched laser diode. , 2018, , .		0
151	Spatial resolution enhancement in laser scanning microscopy using vector beams. , 2018, , .		0
152	Optimization of Higher-Order Transverse Modes of Cylindrical Vector Beams for Enhanced Spatial Resolution in Image Subtraction. , 2019, , .		0
153	Development of self-resonating enhancement cavity operating in single-longitudinal-mode. , 2020, , .		0
154	Dehydrogenation Condensation by Intense Laser Irradiation of Liquid Hexane Creating Dodecane Isomers. , 2020, , .		0
155	Laser Microfabrication of Metal Surfaces by Tightly Focused Higher-Order Vector Beams. , 2020, , .		0