

Yuichi Kozawa

List of Publications by Year in descending order

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112
papers

3,377
citations

172207

29
h-index

143772

57
g-index

112
all docs

112
docs citations

112
times ranked

1824
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	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
9	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
10	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
11	Polarization singularities in superposition of vector beams. <i>Optics Express</i> , 2013, 21, 8972.	1.7	93
12	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
13	Resolution enhancement of confocal microscopy by subtraction method with vector beams. <i>Optics Letters</i> , 2014, 39, 3118.	1.7	75
14	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
15	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
16	Roadmap on Recent Progress in FINCH Technology. <i>Journal of Imaging</i> , 2021, 7, 197.	1.7	51
17	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
18	Compact Laser with Radial Polarization Using Birefringent Laser Medium. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 5160.	0.8	44

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19	Cylindrical Vector Laser Beam Generated by the Use of a Photonic Crystal Mirror. <i>Applied Physics Express</i> , 0, 1, 022008.	1.1	44
20	Subtraction imaging by the combination of higher-order vector beams for enhanced spatial resolution. <i>Optics Letters</i> , 2019, 44, 883.	1.7	43
21	Demonstration of subtraction imaging in confocal microscopy with vector beams. <i>Optics Letters</i> , 2014, 39, 4529.	1.7	42
22	Micro-hole drilling by tightly focused vector beams. <i>Optics Letters</i> , 2018, 43, 1542.	1.7	42
23	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
24	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
25	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
26	Numerical analysis of resolution enhancement in laser scanning microscopy using a radially polarized beam. <i>Optics Express</i> , 2015, 23, 2076.	1.7	39
27	Generation of a cylindrically symmetric, polarized laser beam with narrow linewidth and fine tunability. <i>Optics Express</i> , 2006, 14, 12839.	1.7	36
28	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
29	Generation of radially polarized Bessel-Gaussian beams from c-cut Nd:YVO ₄ laser. <i>Optics Letters</i> , 2014, 39, 1101.	1.7	35
30	Two-step phase-shifting interferometry for self-interference digital holography. <i>Optics Letters</i> , 2021, 46, 669.	1.7	35
31	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
32	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
33	Radially polarized laser beam from a Nd:YAG laser cavity with a c-cut YVO ₄ crystal. <i>Applied Physics B: Lasers and Optics</i> , 2007, 88, 43-46.	1.1	27
34	Dark-spot formation by vector beams. <i>Optics Letters</i> , 2008, 33, 2326.	1.7	27
35	Diffraction 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
36	Laser microprocessing of metal surfaces using a tightly focused radially polarized beam. <i>Optics Letters</i> , 2020, 45, 6234.	1.7	23

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37	Single-path single-shot phase-shifting digital holographic microscopy without a laser light source. <i>Optics Express</i> , 2022, 30, 1182.	1.7	22
38	STED microscopy—super-resolution bio-imaging utilizing a stimulated emission depletion. <i>Microscopy</i> (Oxford, England), 2015, 64, 227-236.	0.7	20
39	Calculation of second-harmonic wave pattern generated by a focused cylindrical vector beams. <i>Applied Physics B: Lasers and Optics</i> , 2010, 98, 851-855.	1.1	19
40	Generation of radially polarized Ti:sapphire laser beam using a c-cut crystal. <i>Optics Letters</i> , 2008, 33, 1984.	1.7	18
41	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
42	Radially polarized annular beam generated through a second-harmonic-generation process. <i>Optics Letters</i> , 2009, 34, 3166.	1.7	17
43	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
44	Two-photon excitation STED microscopy by utilizing transmissive liquid crystal devices. <i>Optics Express</i> , 2014, 22, 28215.	1.7	17
45	Single higher-order transverse mode operation of a radially polarized Nd:YAG laser using an annularly reflectivity-modulated photonic crystal coupler. <i>Optics Letters</i> , 2008, 33, 2278.	1.7	15
46	Transverse mode control by manipulating gain distribution in a Yb:YAG ceramic thin disk. <i>Optics Letters</i> , 2011, 36, 4137.	1.7	14
47	Imaging with a longitudinal electric field in confocal laser scanning microscopy to enhance spatial resolution. <i>Optics Express</i> , 2020, 28, 18418.	1.7	14
48	Demonstration and selection of a single-transverse higher-order-mode beam with radial polarization. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010, 27, 399.	0.8	13
49	Generation of a vector doughnut beam from an internal mirror He-Ne laser. <i>Optics Letters</i> , 2014, 39, 2080.	1.7	12
50	Transverse-mode selective laser operation by unicursal fast-scanning pumping. <i>Optics Letters</i> , 2015, 40, 3245.	1.7	12
51	Adaptive Optical Two-Photon Microscopy for Surface-Profiled Living Biological Specimens. <i>ACS Omega</i> , 2021, 6, 438-447.	1.6	12
52	Creation of polarization gradients from superposition of counter propagating vector LG beams. <i>Optics Express</i> , 2015, 23, 33970.	1.7	11
53	Quantitative phase imaging with single-path phase-shifting digital holography using a light-emitting diode. <i>OSA Continuum</i> , 2021, 4, 2918.	1.8	10
54	Direct generation of the lowest-order vortex beam using a spot defect mirror in the ultraviolet region. <i>Optics Letters</i> , 2020, 45, 2115.	1.7	10

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55	Light needle microscopy with spatially transposed detection for axially resolved volumetric imaging. Scientific Reports, 2019, 9, 11687.	1.6	9
56	Fabrication of Novel Structures on Silicon with Femtosecond Laser Pulses. Journal of Laser Micro Nanoengineering, 2010, 5, 229-232.	0.4	9
57	Wavefront engineered light needle microscopy for axially resolved rapid volumetric imaging. Biomedical Optics Express, 2022, 13, 1702.	1.5	9
58	Chain of optical vortices synthesized by a Gaussian beam and the double-phase-ramp converter. OSA Continuum, 2019, 2, 320.	1.8	8
59	Vector beam generation from vertical cavity surface emitting lasers. Optics Letters, 2018, 43, 5659.	1.7	8
60	Amplification of a radially polarized laser beam using an Yb-doped double-clad fiber. Optics Letters, 2009, 34, 716.	1.7	6
61	Small focal spot formation by vector beams. Progress in Optics, 2021, , 35-90.	0.4	6
62	Twisted longitudinally polarized field in the focal region. Applied Physics B: Lasers and Optics, 2013, 110, 7-14.	1.1	5
63	Electron Round Lenses with Negative Spherical Aberration by a Tightly Focused Cylindrically Polarized Light Beam. Physical Review Applied, 2021, 16, .	1.5	5
64	Non-diffracting linear-shift point-spread function by focus-multiplexed computer-generated hologram. Optics Letters, 2018, 43, 5949.	1.7	5
65	Polarization coupling of vector Bessel-Gaussian beams. Journal of Optics (United Kingdom), 2013, 15, 075710.	1.0	4
66	Fabrication of Quasi-Phase-Matching Structure during Paraelectric Borate Crystal Growth. Applied Physics Express, 2013, 6, 015501.	1.1	4
67	Ultrafast laser ablation of 10-nm self-supporting membranes by two-beam interference processing. Optics Express, 2020, 28, 26200.	1.7	4
68	Single-scan volumetric imaging throughout thick tissue specimens by one-touch installable light-needle creating device. Scientific Reports, 2022, 12, .	1.6	4
69	Nanoprocessing of free-standing thin films by ultrafast laser ablation. , 2021, , .		3
70	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
71	Observation of PDLs by SHG laser scanning microscopy using a liquid crystal vector beam generator. , 2012, , .		2
72	Super-Oscillation by Higher-Order Radially Polarized Laguerre-Gaussian Beams. , 2016, , .		2

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73	72 fps incoherent two-color digital motion-picture holography system for fluorescence cell imaging. , 2021, , .		2
74	Generation of Cylindrical Vector Beams from a Nd:YAG Laser Cavity including a c-cut YVO ₄ Crystal. , 2007, , .		1
75	Unfolding of optical singularities in vector Laguerre-Gaussian beams. , 2015, , .		1
76	Long Depth-of-Focus Imaging by a Non-Diffracting Optical Needle under Strong Aberration. , 2017, , .		1
77	Generation of Robust Doughnut Mode Beam from Internal Mirror He-Ne Laser. , 2012, , .		1
78	Phase-shifting interferometry for multidimensional incoherent digital holography and toward ultimately low light sensing. , 2021, , .		1
79	102 fps incoherent digital motion-picture holography system for sensing of moving fluorescence nanoparticles. , 2021, , .		1
80	Properties of electron lenses produced by ponderomotive potential with Bessel and Laguerre-Gaussian beams. Journal of Optics (United Kingdom), 2022, 24, 054013.	1.0	1
81	Observing the Stimulated Raman Gain Spectra of Solutions Using an Infrared Pump Pulse with Narrow Linewidth and a Low-Noise CW Probe Laser. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 881-892.	0.6	0
82	Axial Symmetrically Polarized Beam from Vertical-cavity Surface-emitting Laser. , 0, , .		0
83	<title>Generation of a radially polarized Nd:YVO ₄ laser beam</title>. Proceedings of SPIE, 2007, , .	0.8	0
84	TM01 mode operation of an Yb-doped double-clad fiber amplifier. , 2009, , .		0
85	Generation of Cylindrical Vector Beams of a Single Higher Order Transverse Mode. , 2010, , .		0
86	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
87	Enhanced Spatial Resolution in Confocal Laser Microscopy by Subtractive Imaging Using Vector Beams. , 2014, , .		0
88	Enhanced Detection of Longitudinal Field of a Radially Polarized Beam in Confocal Laser Microscopy. , 2015, , .		0
89	Acceleration of Micro-Hole Drilling by an Azimuthally Polarized Laser Beam under Tight Focusing Condition. , 2018, , .		0
90	Multidimensional incoherent digital holography with phase-shifting interferometry. , 2021, , .		0

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91	Generation of Ti: sapphire laser beam with radial polarization. , 2008, , .		0
92	Second harmonic generation using axially symmetric, polarized beams with spatial variation of ellipticity. , 2008, , .		0
93	Generation of beams with spiral phase shift using a divided half waveplate in a laser cavity. , 2008, , .		0
94	Spatial Resolution for Fluorescence Depletion Microscopy Using Axial Electric Field Generated by Focused Radially Polarized Beams. , 2009, , .		0
95	Optical Trapping Efficiency Measured for Dielectric Particles by Using Cylindrical Vector Beams. , 2009, , .		0
96	Selective generation of radially polarized Nd:YAG laser beams of higher-order transverse mode. , 2009, , .		0
97	The effect of the longitudinal electric field of a radially polarized laser beam for second harmonic generation. , 2010, , .		0
98	Generation of an Azimuthally Polarized Laser Beam from an End-pumped Laser Cavity with a c-cut Nd:YVO4 Crystal. , 2011, , .		0
99	Resolution Enhancement in Confocal Scanning Microscopy by a Radially Polarized Beam with Phase Modulation. , 2011, , .		0
100	Dark Spot Trapping using a Double-Ring-Shaped Radially Polarized Beam. , 2011, , .		0
101	Transverse Mode Control by a Crossing Pair of Linearly Pumped Regions in a Yb:YAG Ceramic Thin Disk. , 2011, , .		0
102	Enhanced Detection of a Longitudinal Electric Field for a Linearly Polarized Gaussian Beam. , 2011, , .		0
103	Vector Bessel-Gaussian Beam Generation from a c-cut Nd:YVO4 Crystal with an Annular-Shaped Gain. , 2012, , .		0
104	Analysis of Small Focal Spot Formation by a Higher-Order Radially Polarized Laguerre-Gaussian Beam. , 2013, , .		0
105	Direct Manipulation of Transverse Mode of a Yb:YAG Laser by a Scanning Pump Beam. , 2014, , .		0
106	Polarization singularities in superposition of counter-propagating vector Laguerre-Gaussian beams. , 2014, , .		0
107	Smaller Spot Formation by Vector Beam for Higher Resolution Microscopy. , 2015, , .		0
108	Generation of Cylindrical Vector Beams from Vertical-Cavity Surface-Emitting Laser with Optical Feedback. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
109	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
110	Spatial resolution enhancement in laser scanning microscopy using vector beams. , 2018, , .		0
111	Optimization of Higher-Order Transverse Modes of Cylindrical Vector Beams for Enhanced Spatial Resolution in Image Subtraction. , 2019, , .		0
112	Laser Microfabrication of Metal Surfaces by Tightly Focused Higher-Order Vector Beams. , 2020, , .		0