Yuichi Kozawa

List of Publications by Year
in descending order

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	Single-path single-shot phase-shifting digital holographic microscopy without a laser light source. Optics Express, 2022, 30, 1182.	1.7	22
2	Wavefront engineered light needle microscopy for axially resolved rapid volumetric imaging. Biomedical Optics Express, 2022, 13, 1702.	1.5	9
3	Properties of electron lenses produced by ponderomotive potential with Bessel and Laguerreâ€“Gaussian beams. Journal of Optics (United Kingdom), 2022, 24, 054013.	1.0	1
4	Single-scan volumetric imaging throughout thick tissue specimens by one-touch installable light-needle creating device. Scientific Reports, 2022, 12, .	1.6	4
5	Small focal spot formation by vector beams. Progress in Optics, 2021, , 35-90.	0.4	6
6	Nanoprocessing of free-standing thin films by ultrafast laser ablation. , 2021, , .		3
7	Electron Round Lenses with Negative Spherical Aberration by a Tightly Focused Cylindrically Polarized Light Beam. Physical Review Applied, 2021, 16, .	1.5	5
8	Multidimensional incoherent digital holography with phase-shifting interferometry. , 2021, , .		0
9	Roadmap on Recent Progress in FINCH Technology. Journal of Imaging, 2021, 7, 197.	1.7	51
10	Two-step phase-shifting interferometry for self-interference digital holography. Optics Letters, 2021, 46, 669.	1.7	35
11	Adaptive Optical Two-Photon Microscopy for Surface-Profiled Living Biological Specimens. ACS Omega, 2021, 6, 438-447.	1.6	12
12	Quantitative phase imaging with single-path phase-shifting digital holography using a light-emitting diode. OSA Continuum, 2021, 4, 2918.	1.8	10
13	Phase-shifting interferometry for multidimensional incoherent digital holography and toward ultimately low light sensing. , 2021, , .		1
14	102 fps incoherent digital motion-picture holography system for sensing of moving fluorescence nanoparticles. , 2021, , .		1
15	72 fps incoherent two-color digital motion-picture holography system for fluorescence cell imaging. , 2021, , .		2
16	Imaging with a longitudinal electric field in confocal laser scanning microscopy to enhance spatial resolution. Optics Express, 2020, 28, 18418.	1.7	14
17	Laser microprocessing of metal surfaces using a tightly focused radially polarized beam. Optics Letters, 2020, 45, 6234.	1.7	23
18	Ultrafast laser ablation of 10-nm self-supporting membranes by two-beam interference processing. Optics Express, 2020, 28, 26200.	1.7	4

#	Article	IF	Citations
19	Laser Microfabrication of Metal Surfaces by Tightly Focused Higher-Order Vector Beams. , 2020, , .		0
20	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
21	Light needle microscopy with spatially transposed detection for axially resolved volumetric imaging. Scientific Reports, 2019, 9, 11687.	1.6	9
22	Chain of optical vortices synthesized by a Gaussian beam and the double-phase-ramp converter. OSA Continuum, 2019, 2, 320.	1.8	8
23	Subtraction imaging by the combination of higher-order vector beams for enhanced spatial resolution. Optics Letters, 2019, 44, 883.	1.7	43
24	Optimization of Higher-Order Transverse Modes of Cylindrical Vector Beams for Enhanced Spatial Resolution in Image Subtraction. , 2019, , .		0
25	Nonlinear optical properties of Rhâ€“Pd and Rhâ€“Pt solid-solution alloy nanoparticles prepared by a laser-induced nucleation method in aqueous solution. OSA Continuum, 2019, 2, 2891.	1.8	3
26	Superresolution imaging via superoscillation focusing of a radially polarized beam. Optica, 2018, 5, 86.	4.8	194
27	Micro-hole drilling by tightly focused vector beams. Optics Letters, 2018, 43, 1542.	1.7	42
28	Acceleration of Micro-Hole Drilling by an Azimuthally Polarized Laser Beam under Tight Focusing Condition. , 2018, , .		0
29	Vector beam generation from vertical cavity surface emitting lasers. Optics Letters, 2018, 43, 5659.	1.7	8
30	Non-diffracting linear-shift point-spread function by focus-multiplexed computer-generated hologram. Optics Letters, 2018, 43, 5949.	1.7	5
31	Generation of Cylindrical Vector Beams from Vertical-Cavity Surface-Emitting Laser with Optical Feedback. , 2018, , .		0
32	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
33	Spatial resolution enhancement in laser scanning microscopy using vector beams. , 2018, , .		0
34	Long Depth-of-Focus Imaging by a Non-Diffracting Optical Needle under Strong Aberration. , 2017, , .		1
35	Super-Oscillation by Higher-Order Radially Polarized Laguerre-Gaussian Beams. , 2016, , .		2
36	Creation of polarization gradients from superposition of counter propagating vector LG beams. Optics Express, 2015, 23, 33970.	1.7	11

#	Article	IF	Citations
37	Enhanced Detection of Longitudinal Field of a Radially Polarized Beam in Confocal Laser Microscopy. , 2015, , .		0
38	Unfolding of optical singularities in vector Laguerre-Gaussian beams. , 2015, , .		1
39	STED microscopyâ€"super-resolution bio-imaging utilizing a stimulated emission depletion. Microscopy (Oxford, England), 2015, 64, 227-236.	0.7	20
40	Numerical analysis of resolution enhancement in laser scanning microscopy using a radially polarized beam. Optics Express, 2015, 23, 2076.	1.7	39
41	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. Biomedical Optics Express, 2015, 6, 891.	1.5	80
42	Transverse-mode selective laser operation by unicursal fast-scanning pumping. Optics Letters, 2015, 40, 3245.	1.7	12
43	Smaller Spot Formation by Vector Beam for Higher Resolution Microscopy. , 2015, , .		0
44	High-power and highly efficient amplification of a radially polarized beam using an Yb-doped double-clad fiber. Optics Letters, 2014, 39, 2857.	1.7	17
45	7-ps optical pulse generation from a 1064-nm gain-switched laser diode and its application for two-photon microscopy. Optics Express, 2014, 22, 5746.	1.7	45
46	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
47	Two-photon excitation STED microscopy by utilizing transmissive liquid crystal devices. Optics Express, 2014, 22, 28215.	1.7	17
48	Generation of a vector doughnut beam from an internal mirror Heâ€"Ne laser. Optics Letters, 2014, 39, 2080.	1.7	12
49	Generation of radially polarized Besselâ€"Gaussian beams from c-cut Nd:YVO_4 laser. Optics Letters, 2014, 39, 1101.	1.7	35
50	Improvement of lateral resolution and extension of depth of field in two-photon microscopy by a higher-order radially polarized beam. Microscopy (Oxford, England), 2014, 63, 23-32.	0.7	28
51	Demonstration of subtraction imaging in confocal microscopy with vector beams. Optics Letters, 2014, 39, 4529.	1.7	42
52	Resolution enhancement of confocal microscopy by subtraction method with vector beams. Optics Letters, 2014, 39, 3118.	1.7	75
53	Enhanced Spatial Resolution in Confocal Laser Microscopy by Subtractive Imaging Using Vector Beams. , 2014, , .		0
54	Direct Manipulation of Transverse Mode of a Yb:YAG Laser by a Scanning Pump Beam. , 2014, , .		0

#	Article	IF	Citations
55	Polarization singularities in superposition of counter-propagating vector Laguerre-Gaussian beams. , 2014, , .		0
56	Twisted longitudinally polarized field in the focal region. Applied Physics B: Lasers and Optics, 2013, 110, 7-14.	1.1	5
57	Visualizing hippocampal neurons with in vivo two-photon microscopy using a 1030 nm picosecond pulse laser. Scientific Reports, 2013, 3, 1014.	1.6	117
58	Polarization coupling of vector Besselâ€“Gaussian beams. Journal of Optics (United Kingdom), 2013, 15, 075710.	1.0	4
59	Polarization singularities in superposition of vector beams. Optics Express, 2013, 21, 8972.	1.7	93
60	Fabrication of Quasi-Phase-Matching Structure during Paraelectric Borate Crystal Growth. Applied Physics Express, 2013, 6, 015501.	1.1	4
61	Analysis of Small Focal Spot Formation by a Higher-Order Radially Polarized Laguerre-Gaussian Beam. , 2013, , .		0
62	Focusing of higher-order radially polarized Laguerreâ€“Gaussian beam. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2439.	0.8	41
63	Observation of PDLCs by SHG laser scanning microscopy using a liquid crystal vector beam generator. , 2012, , .		2
64	Generation of a Purely Single Transverse Mode Vortex Beam from a He-Ne Laser Cavity with a Spot-Defect Mirror. International Journal of Optics, 2012, 2012, 1-6.	0.6	40
65	Generation of Robust Doughnut Mode Beam from Internal Mirror He-Ne Laser. , 2012, , .		1
66	Vector Bessel-Gaussian Beam Generation from a c-cut Nd:YVO4 Crystal with an Annular-Shaped Gain. , 2012, , .		0
67	Self-healing of tightly focused scalar and vector Besselâ€“Gauss beams at the focal plane. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 837.	0.8	74
68	Diffractive properties of obstructed vector Laguerreâ€“Gaussian beam under tight focusing condition. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1387.	0.8	27
69	Lateral resolution enhancement of laser scanning microscopy by a higher-order radially polarized mode beam. Optics Express, 2011, 19, 15947.	1.7	105
70	Transverse mode control by manipulating gain distribution in a Yb:YAG ceramic thin disk. Optics Letters, 2011, 36, 4137.	1.7	14
71	Generation of an Azimuthally Polarized Laser Beam from an End-pumped Laser Cavity with a c-cut Nd:YVO4 Crystal. , 2011, , .		0
72	Resolution Enhancement in Confocal Scanning Microscopy by a Radially Polarized Beam with Phase Modulation. , 2011, , .		0

#	Article	IF	Citations
73	Dark Spot Trapping using a Double-Ring-Shaped Radially Polarized Beam. , 2011, , .		0
74	Transverse Mode Control by a Crossing Pair of Linearly Pumped Regions in a Yb:YAG Ceramic Thin Disk. , 2011, , .		0
75	Enhanced Detection of a Longitudinal Electric Field for a Linearly Polarized Gaussian Beam. , 2011, , .		0
76	Calculation of second-harmonic wave pattern generated byÂfocused cylindrical vector beams. Applied Physics B: Lasers and Optics, 2010, 98, 851-855.	1.1	19
77	Generation of Cylindrical Vector Beams of a Single Higher Order Transverse Mode. , 2010, , .		0
78	Optical trapping of micrometer-sized dielectric particles by cylindrical vector beams. Optics Express, 2010, 18, 10828.	1.7	236
79	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
80	Generation of hollow scalar and vector beams using a spot-defect mirror. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 2072.	0.8	126
81	Fabrication of Novel Structures on Silicon with Femtosecond Laser Pulses. Journal of Laser Micro Nanoengineering, 2010, 5, 229-232.	0.4	9
82	The effect of the longitudinal electric field of a radially polarized laser beam for second harmonic generation. , 2010, , .		0
83	TM01 mode operation of an Yb-doped double-clad fiber amplifier. , 2009, , .		0
84	Amplification of a radially polarized laser beam using an Yb-doped double-clad fiber. Optics Letters, 2009, 34, 716.	1.7	6
85	Radially polarized annular beam generated through a second-harmonic-generation process. Optics Letters, 2009, 34, 3166.	1.7	17
86	Hollow vortex beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 142.	0.8	62
87	Selective oscillation of radially and azimuthally polarized laser beam induced by thermal birefringence and lensing. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 708.	0.9	36
88	Spatial Resolution for Fluorescence Depletion Microscopy Using Axial Electric Field Generated by Focused Radially Polarized Beams. , 2009, , .		0
89	Optical Trapping Efficiency Measured for Dielectric Particles by Using Cylindrical Vector Beams. , 2009, , .		0
90	Selective generation of radially polarized Nd:YAG laser beams of higher-order transverse mode. , 2009, , .		0

#	Article	IF	Citations
91	Simultaneous generation of helical beams with linear and radial polarization by use of a segmented half-wave plate. Optics Letters, 2008, 33, 399.	1.7	41
92	Generation of radially polarized Ti:sapphire laser beam using a c-cut crystal. Optics Letters, 2008, 33, 1984.	1.7	18
93	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
94	Dark-spot formation by vector beams. Optics Letters, 2008, 33, 2326.	1.7	27
95	Focusing of radially and azimuthally polarized beams through a uniaxial crystal. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 469.	0.8	17
96	Observation of the longitudinal field of a focused laser beam by second-harmonic generation. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 175.	0.9	30
97	Generation of Ti: sapphire laser beam with radial polarization. , 2008, , .		0
98	Second harmonic generation using axially symmetric, polarized beams with spatial variation of ellipticity. , 2008, , .		0
99	Generation of beams with spiral phase shift using a divided half waveplate in a laser cavity. , 2008, , .		0
100	Compact Laser with Radial Polarization Using Birefringent Laser Medium. Japanese Journal of Applied Physics, 2007, 46, 5160.	0.8	44
101	<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
102	Calculation of optical trapping forces on a dielectric sphere in the ray optics regime produced by a radially polarized laser beam. Optics Letters, 2007, 32, 1839.	1.7	162
103	Sharper focal spot formed by higher-order radially polarized laser beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1793.	0.8	200
104	Generation of Cylindrical Vector Beams from a Nd:YAG Laser Cavity including a c-cut YVO<inf>4</inf> Crystal. , 2007, , .		1
105	Radially polarized laser beam from a Nd:YAG laser cavity with a c-cut YVO4 crystal. Applied Physics B: Lasers and Optics, 2007, 88, 43-46.	1.1	27
106	Focusing property of a double-ring-shaped radially polarized beam. Optics Letters, 2006, 31, 820.	1.7	169
107	Generation of a radially polarized laser beam by use of the birefringence of a c-cut Nd:YVO4 crystal. Optics Letters, 2006, 31, 2151.	1.7	187
108	Generation of a cylindrically symmetric, polarized laser beam with narrow linewidth and fine tunability. Optics Express, 2006, 14, 12839.	1.7	36

#	Article	IF	Citations
109	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
110	Generation of a radially polarized laser beam by use of a conical Brewster prism. Optics Letters, 2005, 30, 3063.	1.7	346
111	Axial Symmetrically Polarized Beam from Vertical-cavity Surface-emitting Laser. , 0, , .		0
112	Cylindrical Vector Laser Beam Generated by the Use of a Photonic Crystal Mirror. Applied Physics Express, 0, 1, 022008.	1.1	44