

Baoli Yao

List of Publications by Year in descending order

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136
papers

2,535
citations

186265
28
h-index

254184
43
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137
all docs

137
docs citations

137
times ranked

1899
citing authors

#	ARTICLE	IF	CITATIONS
1	DMD-based LED-illumination Super-resolution and optical sectioning microscopy. <i>Scientific Reports</i> , 2013, 3, 1116.	3.3	218
2	Radiation forces of a highly focused radially polarized beam on spherical particles. <i>Physical Review A</i> , 2007, 76, .	2.5	86
3	Photochromic diarylethene for polarization holographic optical recording. <i>Materials Letters</i> , 2007, 61, 855-859.	2.6	83
4	High-resolution and large field-of-view Fourier ptychographic microscopy and its applications in biomedicine. <i>Reports on Progress in Physics</i> , 2020, 83, 096101.	20.1	76
5	Subwavelength resolution Fourier ptychography with hemispherical digital condensers. <i>Optics Express</i> , 2018, 26, 23119.	3.4	71
6	System calibration method for Fourier ptychographic microscopy. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	67
7	Orbit-induced localized spin angular momentum in strong focusing of optical vectorial vortex beams. <i>Physical Review A</i> , 2018, 97, .	2.5	55
8	Transverse spinning of particles in highly focused vector vortex beams. <i>Physical Review A</i> , 2017, 95, .	2.5	52
9	Phase-shifting point-diffraction interferometry with common-path and in-line configuration for microscopy. <i>Optics Letters</i> , 2010, 35, 712.	3.3	51
10	Dual-wavelength slightly off-axis digital holographic microscopy. <i>Applied Optics</i> , 2012, 51, 191.	1.8	48
11	Rotating of low-refractive-index microparticles with a quasi-perfect optical vortex. <i>Applied Optics</i> , 2018, 57, 79.	1.8	47
12	Structured illumination microscopy for super-resolution and optical sectioning. <i>Science Bulletin</i> , 2014, 59, 1291-1307.	1.7	44
13	Optical sorting of small chiral particles by tightly focused vector beams. <i>Physical Review A</i> , 2019, 99, .	2.5	42
14	Polarization holographic high-density optical data storage in bacteriorhodopsin film. <i>Applied Optics</i> , 2005, 44, 7344.	2.1	41
15	Spinning and orbiting motion of particles in vortex beams with circular or radial polarizations. <i>Optics Express</i> , 2016, 24, 20604.	3.4	41
16	Image recombination transform algorithm for superresolution structured illumination microscopy. <i>Journal of Biomedical Optics</i> , 2016, 21, 096009.	2.6	41
17	Simultaneous optical trapping and imaging in the axial plane: a review of current progress. <i>Reports on Progress in Physics</i> , 2020, 83, 032401.	20.1	41
18	Quantitative phase imaging of cells in a flow cytometry arrangement utilizing Michelson interferometer-based off-axis digital holographic microscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201900085.	2.3	39

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19	Structuring by multi-beam interference using symmetric pyramids. <i>Optics Express</i> , 2006, 14, 5803.	3.4	37
20	Generation of a double-ring perfect optical vortex by the Fourier transform of azimuthally polarized Bessel beams. <i>Optics Letters</i> , 2019, 44, 1504.	3.3	37
21	Vignetting effect in Fourier ptychographic microscopy. <i>Optics and Lasers in Engineering</i> , 2019, 120, 40-48.	3.8	36
22	Polarization multiplexed write-once“read-many optical data storage in bacteriorhodopsin films. <i>Optics Letters</i> , 2005, 30, 3060.	3.3	35
23	Intrinsic optical torque of cylindrical vector beams on Rayleigh absorptive spherical particles. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 1710.	1.5	34
24	Full-color structured illumination optical sectioning microscopy. <i>Scientific Reports</i> , 2015, 5, 14513.	3.3	34
25	Off-axis digital holographic microscopy with LED illumination based on polarization filtering. <i>Applied Optics</i> , 2013, 52, 8233.	1.8	33
26	Single shot, three-dimensional fluorescence microscopy with a spatially rotating point spread function. <i>Biomedical Optics Express</i> , 2017, 8, 5493.	2.9	33
27	Aberration correction in holographic optical tweezers using a high-order optical vortex. <i>Applied Optics</i> , 2018, 57, 3618.	1.8	31
28	Linear space-variant optical cryptosystem via Fourier ptychography. <i>Optics Letters</i> , 2019, 44, 2032.	3.3	31
29	Characteristics of beam profile of Gaussian beam passing through an axicon. <i>Optics Communications</i> , 2004, 239, 367-372.	2.1	30
30	Rapid tilted-plane Gerchberg-Saxton algorithm for holographic optical tweezers. <i>Optics Express</i> , 2020, 28, 12729.	3.4	30
31	Compact multi-band fluorescent microscope with an electrically tunable lens for autofocusing. <i>Biomedical Optics Express</i> , 2015, 6, 4353.	2.9	29
32	Optically induced rotation of Rayleigh particles by vortex beams with different states of polarization. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 311-315.	2.1	29
33	Optical trapping force and torque on spheroidal Rayleigh particles with arbitrary spatial orientations. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 1341.	1.5	28
34	Axial resolution enhancement of light-sheet microscopy by double scanning of Bessel beam and its complementary beam. <i>Journal of Biophotonics</i> , 2019, 12, e201800094.	2.3	27
35	Deep Convolutional Neural Network Phase Unwrapping for Fringe Projection 3D Imaging. <i>Sensors</i> , 2020, 20, 3691.	3.8	27
36	Double-Exposure Optical Sectioning Structured Illumination Microscopy Based on Hilbert Transform Reconstruction. <i>PLoS ONE</i> , 2015, 10, e0120892.	2.5	27

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37	Generation and Conversion Dynamics of Dual Bessel Beams with a Photonic Spin-Dependent Dielectric Metasurface. <i>Physical Review Applied</i> , 2021, 15, .	3.8	26
38	Coherent synthetic aperture imaging for visible remote sensing via reflective Fourier ptychography. <i>Optics Letters</i> , 2021, 46, 29.	3.3	26
39	Accelerating nondiffracting beams. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 983-987.	2.1	25
40	Transverse trapping forces of focused Gaussian beam on ellipsoidal particles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 1596.	2.1	24
41	Optical thickness measurement with single-shot dual-wavelength in-line digital holography. <i>Optics Letters</i> , 2018, 43, 4469.	3.3	24
42	Real-time optical manipulation of particles through turbid media. <i>Optics Express</i> , 2019, 27, 4858.	3.4	22
43	Three-dimensional space optimization for near-field ptychography. <i>Optics Express</i> , 2019, 27, 5433.	3.4	22
44	Long-Distance Axial Trapping with Focused Annular Laser Beams. <i>PLoS ONE</i> , 2013, 8, e57984.	2.5	22
45	Optical Properties and Applications of Photochromic Fulgides. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 430, 211-219.	0.9	21
46	Rapid Image Reconstruction of Structured Illumination Microscopy Directly in the Spatial Domain. <i>IEEE Photonics Journal</i> , 2021, 13, 1-11.	2.0	21
47	Experimental demonstration of optical trapping and manipulation with multifunctional metasurface. <i>Optics Letters</i> , 2022, 47, 977.	3.3	21
48	Accurate description of a radially polarized Gaussian beam. <i>Physical Review A</i> , 2008, 77, .	2.5	20
49	Large-scale 3D imaging of insects with natural color. <i>Optics Express</i> , 2019, 27, 4845.	3.4	20
50	Dual-wavelength in-line digital holography with untrained deep neural networks. <i>Photonics Research</i> , 2021, 9, 2501.	7.0	20
51	High-throughput fast full-color digital pathology based on Fourier ptychographic microscopy via color transfer. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	5.1	18
52	Generation of three-dimensional optical structures by dynamic holograms displayed on a twisted nematic liquid crystal display. <i>Applied Physics B: Lasers and Optics</i> , 2013, 110, 531-537.	2.2	17
53	Interleaved segment correction achieves higher improvement factors in using genetic algorithm to optimize light focusing through scattering media. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 105602.	2.2	17
54	Imaging Enhancement of Light-Sheet Fluorescence Microscopy via Deep Learning. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 1803-1806.	2.5	17

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55	Shaping the on-axis intensity profile of generalized Bessel beams by iterative optimization methods. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 085603.	2.2	16
56	Enantioselective optical trapping of chiral nanoparticles by tightly focused vector beams. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 2099.	2.1	15
57	Kinetic spectra of light-adaptation dark-adaptation and M-intermediate of BR-D96N. <i>Optics Communications</i> , 2003, 218, 125-130.	2.1	14
58	Prediction of optical modulation properties of twisted-nematic liquid-crystal display by improved measurement of Jones matrix. <i>Journal of Applied Physics</i> , 2010, 107, 073107.	2.5	14
59	Adaptive-window angular spectrum algorithm for near-field ptychography. <i>Optics Communications</i> , 2019, 430, 73-82.	2.1	14
60	Robust contrast-transfer-function phase retrieval via flexible deep learning networks. <i>Optics Letters</i> , 2019, 44, 5141.	3.3	14
61	Spinning of particles in optical double-vortex beams. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 025401.	2.2	13
62	Compact optical module to generate arbitrary vector vortex beams. <i>Applied Optics</i> , 2020, 59, 8932.	1.8	13
63	Multi-view object topography measurement with optical sectioning structured illumination microscopy. <i>Applied Optics</i> , 2019, 58, 6288.	1.8	13
64	Two-Photon Laser Scanning Stereomicroscopy for Fast Volumetric Imaging. <i>PLoS ONE</i> , 2016, 11, e0168885.	2.5	13
65	Optical separation and discrimination of chiral particles by vector beams with orbital angular momentum. <i>Nanoscale Advances</i> , 2021, 3, 6897-6902.	4.6	12
66	Generation of controllable chiral optical fields by vector beams. <i>Nanoscale</i> , 2020, 12, 15453-15459.	5.6	11
67	Femtosecond laser-induced permanent anisotropy in bacteriorhodopsin films and applications in optical data storage. <i>Journal of Modern Optics</i> , 2013, 60, 309-314.	1.3	10
68	Multifunctional darkfield microscopy using an axicon. <i>Journal of Biomedical Optics</i> , 2008, 13, 044024.	2.6	9
69	Comment on "Optical Orbital Angular Momentum from the Curl of Polarization". <i>Physical Review Letters</i> , 2011, 106, 189301; author reply 189302.	7.8	9
70	Color full stokes polarization fringe projection 3D imaging. <i>Optics and Lasers in Engineering</i> , 2020, 130, 106088.	3.8	9
71	Spin momentum-dependent orbital motion. <i>New Journal of Physics</i> , 2020, 22, 053009.	2.9	9
72	Direct axial plane imaging of particle manipulation with nondiffracting Bessel beams. <i>Applied Optics</i> , 2021, 60, 2974.	1.8	9

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73	Multi-color structured illumination microscopy for live cell imaging based on the enhanced image recombination transform algorithm. <i>Biomedical Optics Express</i> , 2021, 12, 3474.	2.9	9
74	Experimental demonstration of 3D accelerating beam arrays. <i>Applied Optics</i> , 2016, 55, 3090.	2.1	8
75	Full-color optically-sectioned imaging by wide-field microscopy via deep-learning. <i>Biomedical Optics Express</i> , 2020, 11, 2619.	2.9	8
76	Direct observation and characterization of optical guiding of microparticles by tightly focused non-diffracting beams. <i>Optics Express</i> , 2019, 27, 37975.	3.4	8
77	Fourier Ptychographic Microscopy via Alternating Direction Method of Multipliers. <i>Cells</i> , 2022, 11, 1512.	4.1	8
78	Characteristics and mechanisms of the two types of photoelectric differential response of bacteriorhodopsin-based photocell. <i>Biosensors and Bioelectronics</i> , 2003, 19, 283-287.	10.1	7
79	Absorbance kinetics of dye-doped systems with photochemical first order kinetics. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 2138-2150.	1.5	7
80	Compressed Blind Deconvolution and Denoising for Complementary Beam Subtraction Light-Sheet Fluorescence Microscopy. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2979-2989.	4.2	7
81	Extended field of view of light-sheet fluorescence microscopy by scanning multiple focus-shifted Gaussian beam arrays. <i>Optics Express</i> , 2021, 29, 6158.	3.4	7
82	Single-shot Fourier ptychographic microscopy via annular monochrome LED array. , 2019, , .		7
83	Direct observation and characterization of optical guiding of microparticles by tightly focused non-diffracting beams. <i>Optics Express</i> , 2019, 27, 37975.	3.4	7
84	Hybrid multifocal structured illumination microscopy with enhanced lateral resolution and axial localization capability. <i>Biomedical Optics Express</i> , 2020, 11, 3058.	2.9	7
85	Enantioselective Rotation of Chiral Particles by Azimuthally Polarized Beams. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	7
86	Aberration correction method based on double-helix point spread function. <i>Journal of Biomedical Optics</i> , 2018, 24, 1.	2.6	6
87	Analyses and proofs of multiexponential process of bacteriorhodopsin photoelectric response. <i>Journal of Applied Physics</i> , 2001, 89, 795-797.	2.5	5
88	Polarization holographic optical recording based on a new photochromic diarylethene compound. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2010, 5, 234-240.	0.4	5
89	Three-dimensional characterization of tightly focused fields for various polarization incident beams. <i>Review of Scientific Instruments</i> , 2017, 88, 063106.	1.3	5
90	3D Imaging Restoration of Spinning-Disk Confocal Microscopy Via Deep Learning. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 1131-1134.	2.5	5

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91	Off-axis optical levitation and transverse spinning of metallic microparticles. <i>Photonics Research</i> , 2021, 9, 2144.	7.0	5
92	Azimuthally phase-shifted Fibonacci zone plate. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 3557.	2.1	5
93	Direct Observation of Axial Dynamics of Particle Manipulation With Weber Self-Accelerating Beams. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	5
94	Rotating of metallic microparticles with an optimal radially polarized perfect optical vortex. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 064003.	2.2	5
95	Effect of reconstruction beam polarization on the kinetics of anisotropic gratings in bacteriorhodopsin. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 685.	1.5	4
96	Phase reconstruction from three interferograms based on integral of phase gradient. <i>Journal of Modern Optics</i> , 2008, 55, 2233-2242.	1.3	4
97	Improvement of the performance of the twisted-nematic liquid-crystal display as a phase modulator. <i>Applied Optics</i> , 2011, 50, 2588.	2.1	4
98	All-optical logic gates based on photoinduced anisotropy of bacteriorhodopsin film. <i>Journal of Modern Optics</i> , 2012, 59, 636-642.	1.3	4
99	Polarization-sensitive diffractive optical elements fabricated in BR films with femtosecond laser. <i>Applied Physics B: Lasers and Optics</i> , 2014, 115, 365-369.	2.2	4
100	Visualization of the 3D structures of small organisms via LED-SIM. <i>Frontiers in Zoology</i> , 2016, 13, 26.	2.0	4
101	Axial resolution enhancement for planar Airy beam light-sheet microscopy via the complementary beam subtraction method. <i>Applied Optics</i> , 2021, 60, 10239.	1.8	4
102	Rapid wide-field imaging through scattering media by digital holographic wavefront correction. <i>Applied Optics</i> , 2019, 58, 2845.	1.8	4
103	Full-polarization wavefront shaping for imaging through scattering media. <i>Applied Optics</i> , 2020, 59, 5131.	1.8	4
104	Photochromic kinetic spectra and intermediates of BR-D96N. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2003, 46, 1-7.	0.2	3
105	Experimental investigation of parallel optical data storage using pyrrylfulgide photochromic material. <i>Science Bulletin</i> , 2003, 48, 1548-1550.	1.7	3
106	Two-photon absorption of photochromic diarylethene and its application to rewritable holographic recording. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2010, 5, 221-225.	0.4	3
107	Kinetics of picosecond laser pulse induced charge separation and proton transfer in bacteriorhodopsin. <i>Journal of Biomedical Optics</i> , 2003, 8, 48.	2.6	2
108	Bleaching kinetics of indoly-benzylfulgimide in PMMA. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 1363-1375.	1.5	2

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109	Fast calculation technique for scattering in T-matrix method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 5243-5245.	2.1	2
110	Influence of auxiliary violet light on holographic kinetics at low and high recording intensities in bacteriorhodopsin film. <i>Optics Communications</i> , 2008, 281, 2380-2384.	2.1	2
111	Kinetics of photoinduced anisotropy in bacteriorhodopsin film under two pumping beams. <i>Applied Optics</i> , 2008, 47, 3760.	2.1	2
112	Fast computation for generating CGH of a 3D object by employing connections between layers. <i>Journal of Modern Optics</i> , 2012, 59, 1406-1409.	1.3	2
113	Single-beam phase retrieval with partially coherent light illumination. <i>Journal of Optics (United Kingdom)</i> , 2014, 11, 078431.	2.2	2
114	Mechanisms of Pulse Response and Differential Response of Bacteriorhodopsin and Their Relationships. <i>Photochemistry and Photobiology</i> , 2002, 76, 545.	2.5	2
115	Quantitative Phase Retrieval Through Scattering Medium via Compressive Sensing. <i>IEEE Photonics Journal</i> , 2022, 14, 1-8.	2.0	2
116	Deep-Learning-Based Rapid Imaging Through Scattering Media Beyond the Memory Effect. <i>IEEE Photonics Technology Letters</i> , 2022, 34, 295-298.	2.5	2
117	Tunable depth of focus with modified complex amplitude modulation of optical field. <i>Applied Optics</i> , 2022, 61, 3502-3509.	1.8	2
118	Identification and separation of chiral particles by focused circularly polarized vortex beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2022, 39, 1371.	1.5	2
119	Influence of polarization orientation of violet light on the diffraction efficiency of bacteriorhodopsin. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 1274.	1.5	1
120	Application of bacteriorhodopsin film for polarization phase-shifting interferometry. <i>Journal of Modern Optics</i> , 2008, 55, 2215-2222.	1.3	1
121	Kinetics of polarization gratings assisted with polarized violet light in bacteriorhodopsin films. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2013, 30, 1885.	1.5	1
122	Threshold automatic selection hybrid phase unwrapping algorithm for digital holographic microscopy. <i>Journal of Modern Optics</i> , 2015, 62, 108-113.	1.3	1
123	Aberration correction in holographic optical tweezers using a high-order optical vortex: publisher's note. <i>Applied Optics</i> , 2018, 57, 4857.	1.8	1
124	Direct calculation of tightly focused field in an arbitrary plane. <i>Optics Communications</i> , 2019, 450, 329-334.	2.1	1
125	Robust contrast-transfer-function phase retrieval via flexible deep learning networks: publisher's note. <i>Optics Letters</i> , 2019, 44, 5561.	3.3	1
126	Accelerating triangle-like singular beam. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 1965.	1.5	1

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127	Spirally rotating particles with structured beams generated by phase-shifted zone plates. Applied Optics, 2022, 61, 1268.	1.8	1
128	Background Noise Suppression of Optical Sectioning Structured Illumination Microscopy via Fourier Domain Reconstruction. Frontiers in Physics, 2022, 10, .	2.1	1
129	Superimposed Hermiteâ€“Gaussian-correlated Schell-model beam with multiple off-axis vortices. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2022, 39, 1385.	1.5	1
130	Laser-induced bacteriorhodopsin LB filmsâ€™ fast photoelectric dynamics. Science in China Series A: Mathematics, 1997, 40, 761-766.	0.5	0
131	Mechanisms of Pulse Response and Differential Response of Bacteriorhodopsin and Their Relations. Photochemistry and Photobiology, 2002, 76, 545-548.	2.5	0
132	Optical trapping with cylindrical vector beams. , 2011, , .		0
133	Properties and Applications of Bacteriorhodopsin-films as Dynamic Holographic Recording Media. , 2005, , .		0
134	Subwavelength resolution Fourier ptychography with hemispherical digital condensers. , 2018, , .		0
135	Linear space-variant optical cryptosystem via Fourier ptychography. , 2019, , .		0
136	Polarization-dependent micro-structure fabrication with direct femtosecond laser writing on plastic polarizer films. Optics Letters, 2020, 45, 2588.	3.3	0