

Zichao Bian

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,370
citations

361413

20
h-index

434195

31
g-index

33
all docs

33
docs citations

33
times ranked

1028
citing authors

#	ARTICLE	IF	CITATIONS
1	Aperture-scanning Fourier ptychography for 3D refocusing and super-resolution macroscopic imaging. <i>Optics Express</i> , 2014, 22, 13586.	3.4	166
2	Moisture-Responsive Wrinkling Surfaces with Tunable Dynamics. <i>Advanced Materials</i> , 2017, 29, 1700828.	21.0	133
3	Adaptive system correction for robust Fourier ptychographic imaging. <i>Optics Express</i> , 2013, 21, 32400.	3.4	127
4	Sparsely sampled Fourier ptychography. <i>Optics Express</i> , 2014, 22, 5455.	3.4	116
5	Wide-field, high-resolution lensless on-chip microscopy via near-field blind ptychographic modulation. <i>Lab on A Chip</i> , 2020, 20, 1058-1065.	6.0	80
6	Microscopy illumination engineering using a low-cost liquid crystal display. <i>Biomedical Optics Express</i> , 2015, 6, 574.	2.9	61
7	Autofocusing technologies for whole slide imaging and automated microscopy. <i>Journal of Biophotonics</i> , 2020, 13, e202000227.	2.3	60
8	Stiffness analysis of 3D spheroids using microtweezers. <i>PLoS ONE</i> , 2017, 12, e0188346.	2.5	57
9	InstantScope: a low-cost whole slide imaging system with instant focal plane detection. <i>Biomedical Optics Express</i> , 2015, 6, 3210.	2.9	56
10	Transform- and multi-domain deep learning for single-frame rapid autofocusing in whole slide imaging. <i>Biomedical Optics Express</i> , 2018, 9, 1601.	2.9	51
11	OpenWSI: a low-cost, high-throughput whole slide imaging system via single-frame autofocusing and open-source hardware. <i>Optics Letters</i> , 2020, 45, 260.	3.3	45
12	Rapid focus map surveying for whole slide imaging with continuous sample motion. <i>Optics Letters</i> , 2017, 42, 3379.	3.3	42
13	Super-resolution microscopy via ptychographic structured modulation of a diffuser. <i>Optics Letters</i> , 2019, 44, 3645.	3.3	42
14	Single-frame rapid autofocusing for brightfield and fluorescence whole slide imaging. <i>Biomedical Optics Express</i> , 2016, 7, 4763.	2.9	40
15	Field-portable quantitative lensless microscopy based on translated speckle illumination and sub-sampled ptychographic phase retrieval. <i>Optics Letters</i> , 2019, 44, 1976.	3.3	40
16	Resolution-Enhanced Parallel Coded Ptychography for High-Throughput Optical Imaging. <i>ACS Photonics</i> , 2021, 8, 3261-3271.	6.6	36
17	Super-resolved multispectral lensless microscopy via angle-tilted, wavelength-multiplexed ptychographic modulation. <i>Optics Letters</i> , 2020, 45, 3486.	3.3	28
18	Fourier ptychographic microscopy using wavelength multiplexing. <i>Journal of Biomedical Optics</i> , 2017, 22, 066006.	2.6	23

#	ARTICLE	IF	CITATIONS
19	Virtual brightfield and fluorescence staining for Fourier ptychography via unsupervised deep learning. <i>Optics Letters</i> , 2020, 45, 5405.	3.3	22
20	Ptychographic modulation engine: a low-cost DIY microscope add-on for coherent super-resolution imaging. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 014005.	2.8	21
21	Dual light-emitting diode-based multichannel microscopy for whole-slide multiplane, multispectral and phase imaging. <i>Journal of Biophotonics</i> , 2018, 11, e201700075.	2.3	20
22	Ptychographic sensor for large-scale lensless microbial monitoring with high spatiotemporal resolution. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113699.	10.1	17
23	Optical recording reveals topological distribution of functionally classified colorectal afferent neurons in intact lumbosacral DRG. <i>Physiological Reports</i> , 2019, 7, e14097.	1.7	15
24	Preparation, characterization and application of a protein hydrogel with rapid self-healing and unique autofluorescent multi-functionalities. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 81-91.	4.0	15
25	Terapixel hyperspectral whole-slide imaging via slit-array detection and projection. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	14
26	Rapid and robust whole slide imaging based on LED-array illumination and color-multiplexed single-shot autofocusing. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019, 9, 823-831.	2.0	12
27	High-throughput lensless whole slide imaging via continuous height-varying modulation of a tilted sensor. <i>Optics Letters</i> , 2021, 46, 5212.	3.3	11
28	Digital, Rapid, Accurate, and Label-Free Enumeration of Viable Microorganisms Enabled by Custom-Built On-Glass-Slide Culturing Device and Microscopic Scanning. <i>Sensors</i> , 2018, 18, 3700.	3.8	9
29	Brightfield, fluorescence, and phase-contrast whole slide imaging via dual-LED autofocusing. <i>Biomedical Optics Express</i> , 2021, 12, 4651.	2.9	6
30	Wrinkling Devices: Moisture-Responsive Wrinkling Surfaces with Tunable Dynamics (<i>Adv. Mater.</i>)	21.0	8
31	High-Throughput Functional Characterization of Visceral Afferents by Optical Recordings From Thoracolumbar and Lumbosacral Dorsal Root Ganglia. <i>Frontiers in Neuroscience</i> , 2021, 15, 657361.	2.8	2
32	Axially shifted pattern illumination for macroscale turbidity suppression and virtual volumetric confocal imaging without axial scanning. <i>Optics Letters</i> , 2019, 44, 811.	3.3	0