

Jigang Wu

List of Publications by Year in descending order

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43
papers

868
citations

687363

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times ranked

811
citing authors

#	ARTICLE	IF	CITATIONS
1	Wide field-of-view line-scanning lensless in-line holographic microscope. <i>Optical Engineering</i> , 2022, 61, .	1.0	1
2	Image enhancement in lensless inline holographic microscope by inter-modality learning with denoising convolutional neural network. <i>Optics Communications</i> , 2021, 484, 126682.	2.1	8
3	Extended aperture line-scanning Hartmann wavefront sensor. <i>Applied Optics</i> , 2021, 60, 3403.	1.8	3
4	Extended-aperture Hartmann wavefront sensor with raster scanning. <i>Optics Express</i> , 2021, 29, 34229.	3.4	4
5	Digital inline holographic reconstruction with learned sparsifying transform. <i>Optics Communications</i> , 2021, 498, 127220.	2.1	3
6	Differential holographic reconstruction for lensless in-line holographic microscope with ultra-broadband light source illumination. <i>Optics Communications</i> , 2019, 430, 9-13.	2.1	8
7	Color lensless in-line holographic microscope with sunlight illumination for weakly-scattered amplitude objects. <i>OSA Continuum</i> , 2019, 2, 9.	1.8	5
8	Pixel super-resolution lensless in-line holographic microscope with hologram segmentation. <i>Chinese Optics Letters</i> , 2019, 17, 110901.	2.9	3
9	Three-dimensional endoscopic OCT using sparse sampling with a miniature magnetic-driven scanning probe. <i>Applied Optics</i> , 2018, 57, 10056.	1.8	4
10	Resolution-enhanced digital in-line holographic microscope with segmentation and pixel super-resolution technique. , 2018, , .		0
11	Multilayer pixel super-resolution lensless in-line holographic microscope with random sample movement. <i>Scientific Reports</i> , 2017, 7, 12791.	3.3	9
12	Enhanced resolution in lensless in-line holographic microscope by data interpolation and iterative reconstruction. <i>Optics Communications</i> , 2017, 402, 104-108.	2.1	7
13	Resolution enhancement method for lensless in-line holographic microscope with spatially-extended light source. <i>Optics Express</i> , 2017, 25, 24735.	3.4	22
14	Iterative holographic reconstruction based on the grating illumination with improved resolution by interpolation. , 2017, , .		0
15	Enhanced resolution for amplitude object in lensless inline holographic microscope with grating illumination. <i>Optical Engineering</i> , 2017, 56, 1.	1.0	2
16	Endoscopic optical coherence tomography using compressive sensing. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
17	Pixel super-resolution in digital in-line holography. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
18	Lensless in-line holographic microscope with Talbot grating illumination. <i>Optics Letters</i> , 2016, 41, 3157.	3.3	25

#	ARTICLE	IF	CITATIONS
19	Digital in-line holographic microscope based on the grating illumination with improved resolution by interpolation. , 2016, , .		0
20	Wide field of view multifocal scanning microscopy with sparse sampling. Journal of Biomedical Optics, 2016, 21, 026008.	2.6	4
21	Miniaturized magnetic-driven scanning probe for endoscopic optical coherence tomography. Biomedical Optics Express, 2015, 6, 2231.	2.9	5
22	Lensless microscope based on iterative in-line holographic reconstruction. Proceedings of SPIE, 2014, , .	0.8	1
23	Wide field-of-view microscopy using compressive sensing. Proceedings of SPIE, 2014, , .	0.8	0
24	Characterization of Talbot pattern illumination for scanning optical microscopy. Optical Engineering, 2013, 52, 091714.	1.0	5
25	Wide field-of-view microscopy with Talbot pattern illumination. , 2012, , .		0
26	Optical imaging techniques in microfluidics and their applications. Lab on A Chip, 2012, 12, 3566.	6.0	272
27	Focal plane tuning in wide-field-of-view microscope with Talbot pattern illumination. Optics Letters, 2011, 36, 2179.	3.3	23
28	Focus grid generation by in-line holography. Optics Express, 2010, 18, 14366.	3.4	3
29	Wide field-of-view microscope based on holographic focus grid illumination. Optics Letters, 2010, 35, 2188.	3.3	36
30	Manual-scanning optical coherence tomography probe based on position tracking. Optics Letters, 2009, 34, 3400.	3.3	31
31	The application of Fresnel zone plate based projection in optofluidic microscopy. Optics Express, 2008, 16, 15595.	3.4	23
32	Handheld forward-imaging needle endoscope for ophthalmic optical coherence tomography inspection. Journal of Biomedical Optics, 2008, 13, 020505.	2.6	73
33	Observing dynamics of transparent samples by harmonically matched grating-based full-field quadrature phase interferometer. , 2008, , .		0
34	Full field phase imaging using a harmonically matched diffraction grating pair based homodyne quadrature interferometer. Applied Physics Letters, 2007, 90, 151123.	3.3	10
35	Quantitative phase imaging using grating-based quadrature phase interferometer. , 2007, , .		0
36	Endoscopic optical coherence tomography of the retina at 1310 nm using paired-angle rotating scanning. , 2007, , .		2

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37	Toward forward-looking OCT needle tip vision of the spinal neuroforamen: animal studies. , 2007, , .		0
38	Harmonically matched grating-based full-field quantitative high-resolution phase microscope for observing dynamics of transparent biological samples. Optics Express, 2007, 15, 18141.	3.4	4
39	Images of Spinal Nerves and Adjacent Structures With Optical Coherence Tomography: Preliminary Animal Studies. Journal of Pain, 2007, 8, 767-773.	1.4	19
40	Paired-angle-rotation scanning optical coherence tomography forward-imaging probe. Optics Letters, 2006, 31, 1265.	3.3	100
41	Harmonically-related diffraction gratings-based interferometer for quadrature phase measurements. Optics Express, 2006, 14, 8127.	3.4	17
42	Characterization of light collection through a subwavelength aperture from a point source. Optics Express, 2006, 14, 10410.	3.4	26
43	Methods and application areas of endoscopic optical coherence tomography. Journal of Biomedical Optics, 2006, 11, 063001.	2.6	110