

Vijay Raj Singh

List of Publications by Year in descending order

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49
papers

552
citations

623734

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22
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51
all docs

51
docs citations

51
times ranked

614
citing authors

#	ARTICLE	IF	CITATIONS
1	Tumor cell nuclei soften during transendothelial migration. Journal of Biomechanics, 2021, 121, 110400.	2.1	42
2	Studying nucleic envelope and plasma membrane mechanics of eukaryotic cells using confocal reflectance interferometric microscopy. Nature Communications, 2019, 10, 3652.	12.8	20
3	Automated fluorescence intensity and gradient analysis enables detection of rare fluorescent mutant cells deep within the tissue of RaDR mice. Scientific Reports, 2018, 8, 12108.	3.3	7
4	Quantitative phase microscopy of red blood cells during planar trapping and propulsion. Lab on A Chip, 2018, 18, 3025-3036.	6.0	27
5	Speckle illumination holographic non-scanning fluorescence endoscopy. Journal of Biophotonics, 2018, 11, e201800010.	2.3	8
6	Modeling the depth-sectioning effect in reflection-mode dynamic speckle-field interferometric microscopy. Optics Express, 2017, 25, 130.	3.4	14
7	Near-common-path interferometer for imaging Fourier-transform spectroscopy in wide-field microscopy. Optica, 2017, 4, 546.	9.3	24
8	Non-axial-scanning multifocal confocal microscopy with multiplexed volume holographic gratings. Optics Letters, 2017, 42, 346.	3.3	21
9	Confocal reflectance quantitative phase microscopy system for cell biology studies (Conference) Tj ETQq1 1 0.784314 rgBT /Qoverlock		
10	Talbot multi-focal holographic fluorescence endoscopy for optically sectioned imaging. Optics Letters, 2016, 41, 344.	3.3	8
11	In-line digital holographic imaging in volume holographic microscopy. Optics Letters, 2015, 40, 5542.	3.3	9
12	Speckle-based volume holographic microscopy for optically sectioned multi-plane fluorescent imaging. Optics Express, 2015, 23, 7075.	3.4	11
13	Speckle-based volume holographic microscopy for optically sectioned multi-depths fluorescent imaging. , 2015, , .		0
14	Rosa26-GFP Direct Repeat (RaDR-GFP) Mice Reveal Tissue- and Age-Dependence of Homologous Recombination in Mammals In Vivo. PLoS Genetics, 2014, 10, e1004299.	3.5	44
15	Talbot holographic illumination nonscanning (THIN) fluorescence microscopy. Laser and Photonics Reviews, 2014, 8, L71-L75.	8.7	19
16	Reassignment of Scattered Emission Photons in Multifocal Multiphoton Microscopy. Scientific Reports, 2014, 4, 5153.	3.3	12
17	HiLo-Regularized Digital Light Sheet Microscopy for live 3D imaging of developing embryos and live animals. , 2013, , .		0
18	Three dimensional HiLo-based structured illumination for a digital scanned laser sheet microscopy (DSLIM) in thick tissue imaging. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
19	Improving signal-to-noise ratio of structured light microscopy based on photon reassignment. Biomedical Optics Express, 2012, 3, 206.	2.9	5
20	Three dimensional HiLo-based structured illumination for a digital scanned laser sheet microscopy (DSLMS) in thick tissue imaging. Optics Express, 2012, 20, 27337.	3.4	20
21	Full-field phase modulation characterization of liquid-crystal spatial light modulator using digital holography. Applied Optics, 2011, 50, 1593.	2.1	17
22	A new methodology for pixel size retention in lensless digital holographic microscopy applied to micro-particle analysis. Journal of Optics (United Kingdom), 2011, 13, 035704.	2.2	3
23	Intensity normalization of two-photon microscopy images for liver fibrosis analysis. , 2011, , .		0
24	Digital reflection holography based systems development for MEMS testing. , 2010, , .		1
25	Thermo-mechanical characterization of surface-micromachined microheaters using in-line digital holography. Measurement Science and Technology, 2010, 21, 015301.	2.6	7
26	Response of piezoelectric circular microdiaphragm sensors in higher frequency modes. , 2010, , .		0
27	Full-field TN-LCSLM phase modulation characterization using digital holography. , 2010, , .		2
28	Quasi-physical phase compensation in digital holographic microscopy: errata. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 1660.	1.5	0
29	Digital holographic display. , 2009, , .		0
30	Physical phase compensation in digital holographic microscopy. Proceedings of SPIE, 2009, , .	0.8	1
31	Compact handheld digital holographic microscopy system development. , 2009, , .		4
32	Quasi-physical phase compensation in digital holographic microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 2005.	1.5	65
33	Compact MEMS-based digital holographic microscopy. Chinese Optics Letters, 2009, 7, 1117.	2.9	16
34	Compact digital holographic microscopes and application. , 2009, , .		1
35	Dynamic imaging of micro-particles in 3D using lensless in-line digital holographic microscopy. , 2009, , .		0
36	Quantitative analysis of live cells using digital holographic microscopy. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
37	Digital Holography for MEMS Application. , 2009, , .		2
38	Development of a simple user-friendly commercial digital holographic microscope. , 2008, , .		4
39	Characterisation of laser marks using digital holographic microscopy. Proceedings of SPIE, 2008, , .	0.8	2
40	Characterization of MEMS cantilevers using lensless digital holographic microscope. , 2008, , .		1
41	Double exposure time-averaged in-line digital holography. , 2007, , .		0
42	Dynamic characterization of MEMS diaphragm using time averaged in-line digital holography. Optics Communications, 2007, 280, 285-290.	2.1	43
43	Amplitude and phase analysis in digital dynamic holography. Optics Letters, 2006, 31, 2420.	3.3	24
44	Time-averaged in-line digital holographic interferometry for vibration analysis. Applied Optics, 2006, 45, 2391.	2.1	38
45	Digital in-line holography for dynamic micrometrology. , 2006, 6188, 11.		1
46	Advances in dynamic metrology using in-line digital holographic interferometry. , 2006, , .		1
47	Sectioning of amplitude images in digital holography. Measurement Science and Technology, 2006, 17, 75-78.	2.6	17
48	Vibration Analysis of Membrane by Time Average In-Line Digital Holographic Interferometry. Key Engineering Materials, 2006, 326-328, 23-26.	0.4	0
49	Amplitude contrast image enhancement in digital holography for particles analysis. , 2005, , .		6