

Vijay Raj Singh

List of Publications by Year in descending order

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49
papers

552
citations

623734

14
h-index

677142

22
g-index

51
all docs

51
docs citations

51
times ranked

614
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Dynamic characterization of MEMS diaphragm using time averaged in-line digital holography. Optics Communications, 2007, 280, 285-290.	2.1	43
4	Tumor cell nuclei soften during transendothelial migration. Journal of Biomechanics, 2021, 121, 110400.	2.1	42
5	Time-averaged in-line digital holographic interferometry for vibration analysis. Applied Optics, 2006, 45, 2391.	2.1	38
6	Quantitative phase microscopy of red blood cells during planar trapping and propulsion. Lab on A Chip, 2018, 18, 3025-3036.	6.0	27
7	Amplitude and phase analysis in digital dynamic holography. Optics Letters, 2006, 31, 2420.	3.3	24
8	Near-common-path interferometer for imaging Fourier-transform spectroscopy in wide-field microscopy. Optica, 2017, 4, 546.	9.3	24
9	Non-axial-scanning multifocal confocal microscopy with multiplexed volume holographic gratings. Optics Letters, 2017, 42, 346.	3.3	21
10	Three dimensional HiLo-based structured illumination for a digital scanned laser sheet microscopy (DSLIM) in thick tissue imaging. Optics Express, 2012, 20, 27337.	3.4	20
11	Studying nucleic acid envelope and plasma membrane mechanics of eukaryotic cells using confocal reflectance interferometric microscopy. Nature Communications, 2019, 10, 3652.	12.8	20
12	Talbot holographic illumination non-scanning (THIN) fluorescence microscopy. Laser and Photonics Reviews, 2014, 8, L71-L75.	8.7	19
13	Sectioning of amplitude images in digital holography. Measurement Science and Technology, 2006, 17, 75-78.	2.6	17
14	Full-field phase modulation characterization of liquid-crystal spatial light modulator using digital holography. Applied Optics, 2011, 50, 1593.	2.1	17
15	MEMS-based dynamic speckle-field interferometric microscopy. Chinese Optics Letters, 2009, 7, 1117.	2.9	16
16	Modeling the depth-sectioning effect in reflection-mode dynamic speckle-field interferometric microscopy. Optics Express, 2017, 25, 130.	3.4	14
17	Reassignment of Scattered Emission Photons in Multifocal Multiphoton Microscopy. Scientific Reports, 2014, 4, 5153.	3.3	12
18	Speckle-based volume holographic microscopy for optically sectioned multi-plane fluorescent imaging. Optics Express, 2015, 23, 7075.	3.4	11

#	ARTICLE	IF	CITATIONS
19	In-line digital holographic imaging in volume holographic microscopy. Optics Letters, 2015, 40, 5542.	3.3	9
20	Talbot multi-focal holographic fluorescence endoscopy for optically sectioned imaging. Optics Letters, 2016, 41, 344.	3.3	8
21	Speckle illumination holographic non-scanning fluorescence endoscopy. Journal of Biophotonics, 2018, 11, e201800010.	2.3	8
22	Thermo-mechanical characterization of surface-micromachined microheaters using in-line digital holography. Measurement Science and Technology, 2010, 21, 015301.	2.6	7
23	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
24	Amplitude contrast image enhancement in digital holography for particles analysis. , 2005, , .		6
25	Improving signal-to-noise ratio of structured light microscopy based on photon reassignment. Biomedical Optics Express, 2012, 3, 206.	2.9	5
26	Development of a simple user-friendly commercial digital holographic microscope. , 2008, , .		4
27	Compact handheld digital holographic microscopy system development. , 2009, , .		4
28	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
29	Characterisation of laser marks using digital holographic microscopy. Proceedings of SPIE, 2008, , .	0.8	2
30	Full-field TN-LCSLM phase modulation characterization using digital holography. , 2010, , .		2
31	Digital Holography for MEMS Application. , 2009, , .		2
32	Digital in-line holography for dynamic micrometrology. , 2006, 6188, 11.		1
33	Advances in dynamic metrology using in-line digital holographic interferometry. , 2006, , .		1
34	Characterization of MEMS cantilevers using lensless digital holographic microscope. , 2008, , .		1
35	Physical phase compensation in digital holographic microscopy. Proceedings of SPIE, 2009, , .	0.8	1
36	Compact digital holographic microscopes and application. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
37	Digital reflection holography based systems development for MEMS testing. , 2010, , .		1
38	Vibration Analysis of Membrane by Time Average In-Line Digital Holographic Interferometry. Key Engineering Materials, 2006, 326-328, 23-26.	0.4	0
39	Double exposure time-averaged in-line digital holography. , 2007, , .		0
40	Digital holographic display. , 2009, , .		0
41	Dynamic imaging of micro-particles in 3D using lensless in-line digital holographic microscopy. , 2009, , .		0
42	Quantitative analysis of live cells using digital holographic microscopy. , 2009, , .		0
43	Response of piezoelectric circular microdiaphragm sensors in higher frequency modes. , 2010, , .		0
44	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
45	Intensity normalization of two-photon microscopy images for liver fibrosis analysis. , 2011, , .		0
46	Confocal reflectance quantitative phase microscopy system for cell biology studies (Conference) Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50 3		0
47	HiLo-Regularized Digital Light Sheet Microscopy for live 3D imaging of developing embryos and live animals. , 2013, , .		0
48	Three dimensional HiLo-based structured illumination for a digital scanned laser sheet microscopy (DSLIM) in thick tissue imaging. , 2013, , .		0
49	Speckle-based volume holographic microscopy for optically sectioned multi-depths fluorescent imaging. , 2015, , .		0