Vishesh Dubey

List of Publications by Year in descending order

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49 papers	431 citations	687363 13 h-index	794594 19 g-index
55 all docs	55 docs citations	55 times ranked	253 citing authors

#	Article	IF	Citations
1	Quantitative phase imaging of biological cells using spatially low and temporally high coherent light source. Optics Letters, 2016, 41, 1554.	3.3	47
2	Multispectral quantitative phase imaging of human red blood cells using inexpensive narrowband multicolor LEDs. Applied Optics, 2016, 55, 2521.	2.1	35
3	Ultra-short longitudinal spatial coherence length of laser light with the combined effect of spatial, angular, and temporal diversity. Applied Physics Letters, 2015, 106, 093701.	3.3	34
4	Partially spatially coherent digital holographic microscopy and machine learning for quantitative analysis of human spermatozoa under oxidative stress condition. Scientific Reports, 2019, 9, 3564.	3.3	32
5	Quantitative phase microscopy of red blood cells during planar trapping and propulsion. Lab on A Chip, 2018, 18, 3025-3036.	6.0	27
6	Volumetric analysis of breast cancer tissues using machine learning and swept-source optical coherence tomography. Applied Optics, 2019, 58, A135.	1.8	27
7	Effect on the longitudinal coherence properties of a pseudothermal light source as a function of source size and temporal coherence. Optics Letters, 2019, 44, 1817.	3.3	22
8	Deep learning architecture â€œLightOCTâ€•for diagnostic decision support using optical coherence tomography images of biological samples. Biomedical Optics Express, 2020, 11, 5017.	2.9	20
9	Characterization of color cross-talk of CCD detectors and its influence in multispectral quantitative phase imaging. Optics Express, 2019, 27, 4572.	3.4	19
10	Multi-modal chip-based fluorescence and quantitative phase microscopy for studying inflammation in macrophages. Optics Express, 2018, 26, 19864.	3.4	18
11	Low coherence quantitative phase microscopy with machine learning model and Raman spectroscopy for the study of breast cancer cells and their classification. Applied Optics, 2019, 58, A112.	1.8	18
12	A transparent waveguide chip for versatile total internal reflection fluorescence-based microscopy and nanoscopy. Communications Materials, 2021, 2, .	6.9	15
13	Speckle-free quantitative phase and amplitude imaging using common-path lateral shearing interference microscope with pseudo-thermal light source illumination. Optik, 2019, 180, 991-996.	2.9	14
14	High space-bandwidth in quantitative phase imaging using partially spatially coherent digital holographic microscopy and a deep neural network. Optics Express, 2020, 28, 36229.	3.4	14
15	Sub-nanometer height sensitivity by phase shifting interference microscopy under environmental fluctuations. Optics Express, 2020, 28, 9340.	3.4	13
16	Chip-based multimodal super-resolution microscopy for histological investigations of cryopreserved tissue sections. Light: Science and Applications, 2022, 11, 43.	16.6	11
17	Spectrally resolved laser interference microscopy. Laser Physics Letters, 2018, 15, 075602.	1.4	9
18	High-throughput spatial sensitive quantitative phase microscopy using low spatial and high temporal coherent illumination. Scientific Reports, 2021, 11, 15850.	3.3	7

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19	Quantitative assessment of morphology and sub-cellular changes in macrophages and trophoblasts during inflammation. Biomedical Optics Express, 2020, 11, 3733.	2.9	7
20	Reduction of spatial phase noise in the laser based digital holographic microscopy for the quantitative phase measurement of biological cells. Proceedings of SPIE, 2017, , .	0.8	6
21	High-resolution white light interferometry for quantitative phase imaging of human red blood cells using three-chip colour camera. , 2014, , .		4
22	White light phase shifting interferometry and color fringe analysis for the detection of contaminants in water. , 2016, , .		4
23	Lulworthinone: In Vitro Mode of Action Investigation of an Antibacterial Dimeric Naphthopyrone Isolated from a Marine Fungus. Marine Drugs, 2022, 20, 277.	4.6	4
24	3D topography and tomography of multilayered freeform optical surfaces using large-range measurement swept-source low-coherence interferometry. Laser Physics, 2018, 28, 116101.	1.2	3
25	Chapter 10 Full-Field Optical Coherence Tomography and Microscopy Using Spatially Incoherent Monochromatic Light. , 2016, , 357-392.		3
26	Highly temporal stable, wavelength-independent, and scalable field-of-view common-path quantitative phase microscope. Journal of Biomedical Optics, 2020, 25, .	2.6	3
27	Quantitative phase imaging of biological cells and tissues using singleshot white light interference microscopy and phase subtraction method for extended range of measurement. Proceedings of SPIE, 2016, , .	0.8	2
28	Inflammatory response of macrophages and trophoblasts investigated using structured illumination microscopy and quantitative phase microscopy. Placenta, 2017, 57, 333.	1.5	2
29	Deriving high contrast fluorescence microscopy images through low contrast noisy image stacks. Biomedical Optics Express, 2021, 12, 5529.	2.9	2
30	Relationship between the source size at the diffuser plane and the longitudinal spatial coherence function of the optical coherence microscopy system. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, D41.	1.5	2
31	Unbalanced low coherence interference microscopy. Optics and Lasers in Engineering, 2022, 151, 106932.	3.8	2
32	Digital holographic microscopy and machine learning approach for the classification of inflammation in macrophages. , 2019, , .		1
33	Field-portable multi-modal chip-based fluorescence, bright field and quantitative phase microscopy using smartphone detecting system. , 2020, , .		1
34	Multi-moded high-index contrast optical waveguide for super-contrast high-resolution label-free microscopy. Nanophotonics, 2022, 11, 3421-3436.	6.0	1
35	Investigation of polymer composites using optical coherence tomography. , 2014, , .		0
36	A novel phase shifting structured illumination microscopy. Proceedings of SPIE, 2016, , .	0.8	0

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37	Quantitative phase imaging using white light interference microscopy with color fringe analysis: A comparative study of color interferograms recorded by single chip and 3-chip CCD color camera. Proceedings of SPIE, 2017, , .	0.8	0
38	Quantitative phase imaging using spectrally resolved white light interferometry. Proceedings of SPIE, 2017, , .	0.8	0
39	Polarization interferometric digital holographic microscope for quantitative phase imaging and coherent noise reduction. Proceedings of SPIE, 2017, , .	0.8	0
40	Fiber-Optic Micro-Endoscopy for Imaging Biological Cells at Remote Location and Depixelation of Images Using Discrete Cosine Transform. , 2017, , .		0
41	Effect of Detectorâ€™s Noise in White Light Interferometry Based Quantitative Phase Microscopy. Springer Proceedings in Physics, 2021, , 621-624.	0.2	0
42	Longitudinal Spatial Coherence Gated Optical Tomography and Topography. Springer Proceedings in Physics, 2021, , 549-552.	0.2	0
43	Chip-based Total Internal Reflection Fluorescence Microscopy. , 2018, , .		0
44	Longitudinal spatial coherence gated high-resolution tomography and quantitative phase microscopy of biological cells and tissues with uniform illumination. , 2018, , .		0
45	Classification of human spermatozoa using quantitative phase imaging and machine learning. , 2019, , .		0
46	High space-bandwidth product with high spatial phase sensitivity in single-shot digital holographic microscopy. , 2019, , .		0
47	Novel highly stable wavelength independent quantitative phase microscope. , 2019, , .		0
48	Speckle-free quantitative phase microscopy using pseudo-thermal light source for label-free imaging of biological cells and tissues with high temporal phase stability and spatial phase sensitivity. , 2020, , .		0
49	Photonic-chip: a multimodal imaging tool for histopathology. , 2021, , .		0