

Gabriel Popescu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

175
papers

10,003
citations

51
h-index

96
g-index

207
ext. papers

12,896
ext. citations

6.1
avg. IF

6.4
L-index

#	Paper	IF	Citations
175	Live-dead assay on unlabeled cells using phase imaging with computational specificity.. <i>Nature Communications</i> , 2022 , 13, 713	17.4	3
174	Automatic Colorectal Cancer Screening Using Deep Learning in Spatial Light Interference Microscopy Data.. <i>Cells</i> , 2022 , 11,	7.9	1
173	Cell Cycle Stage Classification Using Phase Imaging with Computational Specificity.. <i>ACS Photonics</i> , 2022 , 9, 1264-1273	6.3	3
172	Diffraction as scattering under the Born approximation. <i>Optics Express</i> , 2021 , 29, 39107-39114	3.3	
171	Label-free cell viability assay using phase imaging with computational specificity (PICS) 2021 ,		2
170	Multiscale Assay of Unlabeled Neurite Dynamics Using Phase Imaging with Computational Specificity. <i>ACS Sensors</i> , 2021 , 6, 1864-1874	9.2	3
169	Computational interference microscopy enabled by deep learning.. <i>APL Photonics</i> , 2021 , 6,	5.2	5
168	Spatial light interference microscopy: principle and applications to biomedicine.. <i>Advances in Optics and Photonics</i> , 2021 , 13, 353-425	16.7	8
167	High-resolution impedance mapping using electrically activated quantitative phase imaging. <i>Light: Science and Applications</i> , 2021 , 10, 20	16.7	4
166	Label-free screening of brain tissue myelin content using phase imaging with computational specificity (PICS). <i>APL Photonics</i> , 2021 , 6, 076103	5.2	1
165	Monitoring reactivation of latent HIV by label-free gradient light interference microscopy. <i>IScience</i> , 2021 , 24, 102940	6.1	
164	Label-free SARS-CoV-2 detection and classification using phase imaging with computational specificity. <i>Light: Science and Applications</i> , 2021 , 10, 176	16.7	5
163	Synthetic aperture interference light (SAIL) microscopy for high-throughput label-free imaging.. <i>Applied Physics Letters</i> , 2021 , 119, 233701	3.4	0
162	Label-free colorectal cancer screening using deep learning and spatial light interference microscopy (SLIM). <i>APL Photonics</i> , 2020 , 5,	5.2	19
161	Harmonic optical tomography of nonlinear structures. <i>Nature Photonics</i> , 2020 , 14, 564-569	33.9	15
160	Morphometric analysis of sperm used for IVP by three different separation methods with spatial light interference microscopy. <i>Systems Biology in Reproductive Medicine</i> , 2020 , 66, 26-36	2.9	7
159	Quantitative phase imaging of stromal prognostic markers in pancreatic ductal adenocarcinoma. <i>Biomedical Optics Express</i> , 2020 , 11, 1354-1364	3.5	15

158	Real-time Jones phase microscopy for studying transparent and birefringent specimens. <i>Optics Express</i> , 2020 , 28, 34190-34200	3.3	8
157	Harmonically decoupled gradient light interference microscopy (HD-GLIM). <i>Optics Letters</i> , 2020 , 45, 1487-1490	5	
156	Quantifying myelin content in brain tissue using color Spatial Light Interference Microscopy (cSLIM). <i>PLoS ONE</i> , 2020 , 15, e0241084	3.7	2
155	High-throughput sperm assay using label-free microscopy: morphometric comparison between different sperm structures of boar and stallion spermatozoa. <i>Animal Reproduction Science</i> , 2020 , 219, 106509	2.1	3
154	Matrix Softness-Mediated 3D Zebrafish Hepatocyte Modulates Response to Endocrine Disrupting Chemicals. <i>Environmental Science & Technology</i> , 2020 , 54, 13797-13806	10.3	3
153	Electrothermal soft manipulator enabling safe transport and handling of thin cell/tissue sheets and bioelectronic devices. <i>Science Advances</i> , 2020 , 6,	14.3	11
152	Network science characteristics of brain-derived neuronal cultures deciphered from quantitative phase imaging data. <i>Scientific Reports</i> , 2020 , 10, 15078	4.9	12
151	Reproductive outcomes predicted by phase imaging with computational specificity of spermatozoon ultrastructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 18302-18309	11.5	12
150	Wolf phase tomography (WPT) of transparent structures using partially coherent illumination. <i>Light: Science and Applications</i> , 2020 , 9, 142	16.7	16
149	Phase imaging with computational specificity (PICS) for measuring dry mass changes in sub-cellular compartments. <i>Nature Communications</i> , 2020 , 11, 6256	17.4	33
148	Quantitative phase imaging reveals matrix stiffness-dependent growth and migration of cancer cells. <i>Scientific Reports</i> , 2019 , 9, 248	4.9	26
147	Imaging Collagen Properties in the Uterosacral Ligaments of Women With Pelvic Organ Prolapse Using Spatial Light Interference Microscopy (SLIM). <i>Frontiers in Physics</i> , 2019 , 7,	3.9	11
146	Graphene oxide substrates with N-cadherin stimulates neuronal growth and intracellular transport. <i>Acta Biomaterialia</i> , 2019 , 90, 412-423	10.8	7
145	Simultaneous cell traction and growth measurements using light. <i>Journal of Biophotonics</i> , 2019 , 12, e201800188	3	18
144	Effects of substrate patterning on cellular spheroid growth and dynamics measured by gradient light interference microscopy (GLIM). <i>Journal of Biophotonics</i> , 2019 , 12, e201900178	3.1	6
143	Epi-illumination gradient light interference microscopy for imaging opaque structures. <i>Nature Communications</i> , 2019 , 10, 4691	17.4	30
142	Quantitative Histopathology of Stained Tissues using Color Spatial Light Interference Microscopy (cSLIM). <i>Scientific Reports</i> , 2019 , 9, 14679	4.9	13
141	Tissue spatial correlation as cancer marker. <i>Journal of Biomedical Optics</i> , 2019 , 24, 1-6	3.5	11

140	Cell-to-cell influence on growth in large populations. <i>Biomedical Optics Express</i> , 2019 , 10, 4664-4675	3.5	4
139	Quantitative Phase Imaging: Principles and Applications 2019 , 1-24		7
138	Engineering geometrical 3-dimensional untethered in vitro neural tissue mimic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 25932-25940	11.5	13
137	Bond-selective transient phase imaging via sensing of the infrared photothermal effect. <i>Light: Science and Applications</i> , 2019 , 8, 116	16.7	32
136	Quantitative Phase Imaging (QPI) in Neuroscience. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-9	3.8	17
135	SLIM microscopy allows for visualization of DNA-containing liposomes designed for sperm-mediated gene transfer in cattle. <i>Molecular Biology Reports</i> , 2019 , 46, 695-703	2.8	8
134	Optical excitation and detection of neuronal activity. <i>Journal of Biophotonics</i> , 2019 , 12, e201800269	3.1	8
133	Optical properties of acute kidney injury measured by quantitative phase imaging. <i>Biomedical Optics Express</i> , 2018 , 9, 921-932	3.5	20
132	Magnified Image Spatial Spectrum (MISS) microscopy for nanometer and millisecond scale label-free imaging. <i>Optics Express</i> , 2018 , 26, 5423-5440	3.3	17
131	Endoscopic diffraction phase microscopy. <i>Optics Letters</i> , 2018 , 43, 3373-3376	3	15
130	Real-time halo correction in phase contrast imaging. <i>Biomedical Optics Express</i> , 2018 , 9, 623-635	3.5	28
129	Label-free quantitative evaluation of breast tissue using Spatial Light Interference Microscopy (SLIM). <i>Scientific Reports</i> , 2018 , 8, 6875	4.9	26
128	Effect of tissue staining in quantitative phase imaging. <i>Journal of Biophotonics</i> , 2018 , 11, e201700402	3.1	2
127	Disorder strength measured by quantitative phase imaging as intrinsic cancer marker in fixed tissue biopsies. <i>PLoS ONE</i> , 2018 , 13, e0194320	3.7	24
126	Topography and refractometry of sperm cells using spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-6	3.5	10
125	Quantitative phase imaging in biomedicine. <i>Nature Photonics</i> , 2018 , 12, 578-589	33.9	455
124	Geometric localization of thermal fluctuations in red blood cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2865-2870	11.5	19
123	Cell density modulates intracellular mass transport in neural networks. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017 , 91, 503-509	4.6	12

122	Halo-free Phase Contrast Microscopy. <i>Scientific Reports</i> , 2017 , 7, 44034	4.9	26
121	Quantifying collagen fiber orientation in breast cancer using quantitative phase imaging. <i>Journal of Biomedical Optics</i> , 2017 , 22, 46004	3.5	33
120	Automatic Gleason grading of prostate cancer using quantitative phase imaging and machine learning. <i>Journal of Biomedical Optics</i> , 2017 , 22, 36015	3.5	54
119	Three-dimensional intracellular transport in neuron bodies and neurites investigated by label-free dispersion-relation phase spectroscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017 , 91, 519-526	4.6	17
118	Label-Free Imaging of Single Microtubule Dynamics Using Spatial Light Interference Microscopy. <i>ACS Nano</i> , 2017 , 11, 647-655	16.7	35
117	Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9455-E9464	11.5	104
116	Gradient light interference microscopy for 3D imaging of unlabeled specimens. <i>Nature Communications</i> , 2017 , 8, 210	17.4	112
115	3D-Printed pHEMA Materials for Topographical and Biochemical Modulation of Dorsal Root Ganglion Cell Response. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30318-30328	9.5	24
114	Coupled circumferential and axial tension driven by actin and myosin influences in vivo axon diameter. <i>Scientific Reports</i> , 2017 , 7, 14188	4.9	33
113	Quantitative assessment of neural outgrowth using spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2017 , 22, 66015	3.5	11
112	Label-free tissue scanner for colorectal cancer screening. <i>Journal of Biomedical Optics</i> , 2017 , 22, 66016	3.5	34
111	Quantitative phase imaging for medical diagnosis. <i>Journal of Biophotonics</i> , 2017 , 10, 177-205	3.1	82
110	Physical significance of backscattering phase measurements. <i>Optics Letters</i> , 2017 , 42, 4643-4646	3	9
109	Measurement of multispectral scattering properties in mouse brain tissue. <i>Biomedical Optics Express</i> , 2017 , 8, 1763-1770	3.5	6
108	Refractive index variance of cells and tissues measured by quantitative phase imaging. <i>Optics Express</i> , 2017 , 25, 1573-1581	3.3	33
107	Dispersion relations of cytoskeleton dynamics. <i>Cell Health and Cytoskeleton</i> , 2016 , 1		1
106	Quantitative phase imaging of weakly scattering objects using partially coherent illumination. <i>Optics Express</i> , 2016 , 24, 11683-93	3.3	13
105	Phase correlation imaging of unlabeled cell dynamics. <i>Scientific Reports</i> , 2016 , 6, 32702	4.9	23

104	Guest Editorial Introduction to the Issue on Nanobiophotonics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 3-5	3.8	
103	Prediction of prostate cancer recurrence using quantitative phase imaging: Validation on a general population. <i>Scientific Reports</i> , 2016 , 6, 33818	4.9	26
102	Programming Mechanical and Physicochemical Properties of 3D Hydrogel Cellular Microcultures via Direct Ink Writing. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1025-39	10.1	29
101	White-light diffraction phase microscopy at doubled space-bandwidth product. <i>Optics Express</i> , 2016 , 24, 29033-29039	3.3	19
100	High-Resolution Projection Microstereolithography for Patterning of Neovasculature. <i>Advanced Healthcare Materials</i> , 2016 , 5, 610-9	10.1	87
99	Label-free, multi-scale imaging of ex-vivo mouse brain using spatial light interference microscopy. <i>Scientific Reports</i> , 2016 , 6, 39667	4.9	11
98	Bioprinting: High-Resolution Projection Microstereolithography for Patterning of Neovasculature (Adv. Healthcare Mater. 5/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 622-622	10.1	1
97	Cellular Microcultures: Programming Mechanical and Physicochemical Properties of 3D Hydrogel Cellular Microcultures via Direct Ink Writing (Adv. Healthcare Mater. 9/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 990-990	10.1	4
96	Solving inverse scattering problems in biological samples by quantitative phase imaging. <i>Laser and Photonics Reviews</i> , 2016 , 10, 13-39	8.3	45
95	Quantitative phase imaging of arthropods. <i>Journal of Biomedical Optics</i> , 2015 , 20, 111212	3.5	1
94	Active intracellular transport in metastatic cells studied by spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2015 , 20, 111209	3.5	14
93	Breast cancer diagnosis using spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2015 , 20, 111210	3.5	38
92	Prediction of prostate cancer recurrence using quantitative phase imaging. <i>Scientific Reports</i> , 2015 , 5, 9976	4.9	58
91	Measuring the Nonuniform Evaporation Dynamics of Sprayed Sessile Microdroplets with Quantitative Phase Imaging. <i>Langmuir</i> , 2015 , 31, 11020-32	4	18
90	Optical assay of erythrocyte function in banked blood. <i>Scientific Reports</i> , 2014 , 4, 6211	4.9	31
89	New technologies for measuring single cell mass. <i>Lab on A Chip</i> , 2014 , 14, 646-52	7.2	38
88	White-light diffraction tomography of unlabelled live cells. <i>Nature Photonics</i> , 2014 , 8, 256-263	33.9	270
87	Diffraction phase microscopy: principles and applications in materials and life sciences. <i>Advances in Optics and Photonics</i> , 2014 , 6, 57	16.7	194

86	Inverse scattering solutions using low-coherence light. <i>Optics Letters</i> , 2014 , 39, 4494-7	3	11
85	Highly sensitive quantitative imaging for monitoring single cancer cell growth kinetics and drug response. <i>PLoS ONE</i> , 2014 , 9, e89000	3.7	44
84	Spatiotemporal characterization of a fibrin clot using quantitative phase imaging. <i>PLoS ONE</i> , 2014 , 9, e111381	3.7	8
83	Breakthroughs in Photonics 2013: Quantitative Phase Imaging: Metrology Meets Biology. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-9	1.8	16
82	Diffraction phase microscopy: monitoring nanoscale dynamics in materials science [invited]. <i>Applied Optics</i> , 2014 , 53, G33-43	1.7	28
81	In situ measurements of the axial expansion of palladium microdisks during hydrogen exposure using diffraction phase microscopy. <i>Optical Materials Express</i> , 2014 , 4, 2559	2.6	8
80	Effects of spatial coherence in diffraction phase microscopy. <i>Optics Express</i> , 2014 , 22, 5133-46	3.3	49
79	High Resolution Phase-Sensitive Magnetomotive Optical Coherence Microscopy for Tracking Magnetic Microbeads and Cellular Mechanics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20,	3.8	15
78	Nanoscale topography and spatial light modulator characterization using wide-field quantitative phase imaging. <i>Optics Express</i> , 2014 , 22, 3432-8	3.3	27
77	Label-free characterization of emerging human neuronal networks. <i>Scientific Reports</i> , 2014 , 4, 4434	4.9	47
76	Observing hydrogen induced deformations in palladium thin-films 2013 ,		1
75	Fourier Transform Light Scattering of Tissues 2013 , 259-290		2
74	Detecting 20 nm wide defects in large area nanopatterns using optical interferometric microscopy. <i>Nano Letters</i> , 2013 , 13, 3716-21	11.5	53
73	Fast phase reconstruction in white light diffraction phase microscopy. <i>Applied Optics</i> , 2013 , 52, A97-101	1.7	50
72	Fourier phase microscopy with white light. <i>Biomedical Optics Express</i> , 2013 , 4, 1434-41	3.5	45
71	Spatial Light Interference Microscopy (SLIM) using twisted-nematic liquid-crystal modulation. <i>Biomedical Optics Express</i> , 2013 , 4, 1571-83	3.5	20
70	Deterministic signal associated with a random field. <i>Optics Express</i> , 2013 , 21, 20806-20	3.3	8
69	Real time blood testing using quantitative phase imaging. <i>PLoS ONE</i> , 2013 , 8, e55676	3.7	66

68	Cardiomyocyte imaging using real-time spatial light interference microscopy (SLIM). <i>PLoS ONE</i> , 2013 , 8, e56930	3.7	19
67	Quantitative Phase Imaging. <i>Progress in Optics</i> , 2012 , 57, 133-217	3.4	99
66	Visualizing Escherichia coli sub-cellular structure using sparse deconvolution Spatial Light Interference Tomography. <i>PLoS ONE</i> , 2012 , 7, e39816	3.7	27
65	Gradient field microscopy of unstained specimens. <i>Optics Express</i> , 2012 , 20, 6737-45	3.3	20
64	Spectroscopic diffraction phase microscopy. <i>Optics Letters</i> , 2012 , 37, 3438-40	3	46
63	Dispersion-relation fluorescence spectroscopy. <i>Physical Review Letters</i> , 2012 , 109, 188104	7.4	8
62	Diffraction phase microscopy with white light. <i>Optics Letters</i> , 2012 , 37, 1094-6	3	202
61	Optically monitoring and controlling nanoscale topography during semiconductor etching. <i>Light: Science and Applications</i> , 2012 , 1, e30-e30	16.7	81
60	Effective temperature of red-blood-cell membrane fluctuations. <i>Physical Review Letters</i> , 2011 , 106, 238103	10.3	101
59	Measurement of the nonlinear elasticity of red blood cell membranes. <i>Physical Review E</i> , 2011 , 83, 051925	5.4	60
58	Optical Sensing of Red Blood Cell Dynamics 2011 , 279-309		6
57	Effective 3D viscoelasticity of red blood cells measured by diffraction phase microscopy. <i>Biomedical Optics Express</i> , 2011 , 2, 485-90	3.5	21
56	Cell imaging beyond the diffraction limit using sparse deconvolution spatial light interference microscopy. <i>Biomedical Optics Express</i> , 2011 , 2, 1815-27	3.5	20
55	Born approximation model for light scattering by red blood cells. <i>Biomedical Optics Express</i> , 2011 , 2, 2784-91	3.5	29
54	Simultaneous optical measurements of cell motility and growth. <i>Biomedical Optics Express</i> , 2011 , 2, 2815-20	3.5	34
53	Blood testing at the single cell level using quantitative phase and amplitude microscopy. <i>Biomedical Optics Express</i> , 2011 , 2, 3259-66	3.5	64
52	Spatial light interference microscopy (SLIM). <i>Optics Express</i> , 2011 , 19, 1016-26	3.3	406
51	Spatial light interference tomography (SLIT). <i>Optics Express</i> , 2011 , 19, 19907-18	3.3	55

50	Dispersion-relation phase spectroscopy of intracellular transport. <i>Optics Express</i> , 2011 , 19, 20571-9	3.3	58
49	Scattering-phase theorem. <i>Optics Letters</i> , 2011 , 36, 1215-7	3	54
48	Measuring the scattering parameters of tissues from quantitative phase imaging of thin slices. <i>Optics Letters</i> , 2011 , 36, 2281-3	3	38
47	Correlation-induced spectral changes in tissues. <i>Optics Letters</i> , 2011 , 36, 4209-11	3	21
46	Laplace field microscopy for label-free imaging of dynamic biological structures. <i>Optics Letters</i> , 2011 , 36, 4704-6	3	15
45	Optical measurement of cycle-dependent cell growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 13124-9	11.5	276
44	One-dimensional deterministic transport in neurons measured by dispersion-relation phase spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 374107	1.8	16
43	Light scattering of human red blood cells during metabolic remodeling of the membrane. <i>Journal of Biomedical Optics</i> , 2011 , 16, 011013	3.5	31
42	Label-free intracellular transport measured by spatial light interference microscopy. <i>Journal of Biomedical Optics</i> , 2011 , 16, 026019	3.5	33
41	Tissue refractive index as marker of disease. <i>Journal of Biomedical Optics</i> , 2011 , 16, 116017	3.5	167
40	Blood screening using diffraction phase cytometry. <i>Journal of Biomedical Optics</i> , 2010 , 15, 027016	3.5	31
39	Quantitative phase imaging with broadband fields. <i>Applied Physics Letters</i> , 2010 , 96, 051117	3.4	30
38	Measurement of red blood cell mechanics during morphological changes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6731-6	11.5	291
37	Measurement of adherent cell mass and growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 20691-6	11.5	153
36	Static and dynamic light scattering of healthy and malaria-parasite invaded red blood cells. <i>Journal of Biomedical Optics</i> , 2010 , 15, 020506	3.5	64
35	Actin-driven cell dynamics probed by Fourier transform light scattering. <i>Biomedical Optics Express</i> , 2010 , 1, 260-267	3.5	23
34	Topography and refractometry of nanostructures using spatial light interference microscopy. <i>Optics Letters</i> , 2010 , 35, 208-10	3	37
33	Instantaneous Spatial Light Interference Microscopy. <i>Optics Express</i> , 2010 , 18, 1569-75	3.3	64

32	Metabolic remodeling of the human red blood cell membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 1289-94	11.5	280
31	Fourier Transform Light Scattering (FTLS) of Cells and Tissues. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010 , 7, 2501-2511	0.3	19
30	Fourier Transform Light Scattering of Biological Structure and Dynamics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 909-918	3.8	20
29	Live cell refractometry using Hilbert phase microscopy and confocal reflectance microscopy. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 13327-30	2.8	68
28	Optical properties of tissues quantified by Fourier-transform light scattering. <i>Optics Letters</i> , 2009 , 34, 1372-4	3	52
27	Diffraction Phase Cytometry: blood on a CD-ROM. <i>Optics Express</i> , 2009 , 17, 2579-85	3.3	37
26	Jones phase microscopy of transparent and anisotropic samples. <i>Optics Letters</i> , 2008 , 33, 1270-2	3	56
25	Confocal diffraction phase microscopy of live cells. <i>Optics Letters</i> , 2008 , 33, 2074-6	3	26
24	Synthetic aperture tomographic phase microscopy for 3D imaging of live cells in translational motion. <i>Optics Express</i> , 2008 , 16, 16240-6	3.3	45
23	Imaging red blood cell dynamics by quantitative phase microscopy. <i>Blood Cells, Molecules, and Diseases</i> , 2008 , 41, 10-6	2.1	154
22	Optical imaging of cell mass and growth dynamics. <i>American Journal of Physiology - Cell Physiology</i> , 2008 , 295, C538-44	5.4	323
21	Refractive index maps and membrane dynamics of human red blood cells parasitized by <i>Plasmodium falciparum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13730-5	11.5	464
20	Quantitative phase imaging of nanoscale cell structure and dynamics. <i>Methods in Cell Biology</i> , 2008 , 90, 87-115	1.8	72
19	Fourier transform light scattering of inhomogeneous and dynamic structures. <i>Physical Review Letters</i> , 2008 , 101, 238102	7.4	116
18	Coherence properties of red blood cell membrane motions. <i>Physical Review E</i> , 2007 , 76, 031902	2.4	53
17	Fresnel particle tracing in three dimensions using diffraction phase microscopy. <i>Optics Letters</i> , 2007 , 32, 811-3	3	54
16	Tissue refractometry using Hilbert phase microscopy. <i>Optics Letters</i> , 2007 , 32, 3522-4	3	51
15	Microrheology of red blood cell membranes using dynamic scattering microscopy. <i>Optics Express</i> , 2007 , 15, 17001-9	3.3	50

14	Quantitative phase imaging of live cells using fast Fourier phase microscopy. <i>Applied Optics</i> , 2007 , 46, 1836-42	1.7	83
13	Observation of dynamic subdomains in red blood cells. <i>Journal of Biomedical Optics</i> , 2006 , 11, 040503	3.5	61
12	Optical measurement of cell membrane tension. <i>Physical Review Letters</i> , 2006 , 97, 218101	7.4	148
11	Tissue self-affinity and polarized light scattering in the born approximation: a new model for precancer detection. <i>Physical Review Letters</i> , 2006 , 97, 138102	7.4	90
10	Diffraction phase microscopy for quantifying cell structure and dynamics. <i>Optics Letters</i> , 2006 , 31, 775-73		558
9	Live cell refractometry using microfluidic devices. <i>Optics Letters</i> , 2006 , 31, 2759-61	3	122
8	Diffraction phase and fluorescence microscopy. <i>Optics Express</i> , 2006 , 14, 8263-8	3.3	188
7	Hilbert phase microscopy for investigating fast dynamics in transparent systems. <i>Optics Letters</i> , 2005 , 30, 1165-7	3	424
6	Erythrocyte structure and dynamics quantified by Hilbert phase microscopy. <i>Journal of Biomedical Optics</i> , 2005 , 10, 060503	3.5	134
5	Quantitative phase imaging using actively stabilized phase-shifting low-coherence interferometry. <i>Optics Letters</i> , 2004 , 29, 2399-401	3	78
4	Fourier phase microscopy for investigation of biological structures and dynamics. <i>Optics Letters</i> , 2004 , 29, 2503-5	3	331
3	Live-dead assay on unlabeled cells using phase imaging with computational specificity		1
2	Real-time halo correction in phase contrast imaging		1
1	Rapid SARS-CoV-2 Detection and Classification Using Phase Imaging with Computational Specificity		1