

# YongKeun Park

## List of Publications by Citations

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214  
papers

8,397  
citations

52  
h-index

84  
g-index

313  
ext. papers

11,105  
ext. citations

6  
avg, IF

6.49  
L-index

#	Paper	IF	Citations
214	Refractive index maps and membrane dynamics of human red blood cells parasitized by Plasmodium falciparum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 13730-5	11.5	464
213	Quantitative phase imaging in biomedicine. <i>Nature Photonics</i> , <b>2018</b> , 12, 578-589	33.9	455
212	Quantitative phase imaging techniques for the study of cell pathophysiology: from principles to applications. <i>Sensors</i> , <b>2013</b> , 13, 4170-91	3.8	291
211	Measurement of red blood cell mechanics during morphological changes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 6731-6	11.5	291
210	Metabolic remodeling of the human red blood cell membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 1289-94	11.5	280
209	Diffraction phase and fluorescence microscopy. <i>Optics Express</i> , <b>2006</b> , 14, 8263-8	3.3	188
208	High-resolution three-dimensional imaging of red blood cells parasitized by Plasmodium falciparum and in situ hemozoin crystals using optical diffraction tomography. <i>Journal of Biomedical Optics</i> , <b>2014</b> , 19, 011005	3.5	169
207	Imaging red blood cell dynamics by quantitative phase microscopy. <i>Blood Cells, Molecules, and Diseases</i> , <b>2008</b> , 41, 10-6	2.1	154
206	Real-time quantitative phase imaging with a spatial phase-shifting algorithm. <i>Optics Letters</i> , <b>2011</b> , 36, 4677-9	3	143
205	Comparative study of iterative reconstruction algorithms for missing cone problems in optical diffraction tomography. <i>Optics Express</i> , <b>2015</b> , 23, 16933-48	3.3	141
204	Spectroscopic phase microscopy for quantifying hemoglobin concentrations in intact red blood cells. <i>Optics Letters</i> , <b>2009</b> , 34, 3668-70	3	136
203	Recent advances in wavefront shaping techniques for biomedical applications. <i>Current Applied Physics</i> , <b>2015</b> , 15, 632-641	2.6	134
202	Subwavelength light focusing using random nanoparticles. <i>Nature Photonics</i> , <b>2013</b> , 7, 454-458	33.9	125
201	Antibacterial Activities of Graphene Oxide-Molybdenum Disulfide Nanocomposite Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 7908-7917	9.5	115
200	Active illumination using a digital micromirror device for quantitative phase imaging. <i>Optics Letters</i> , <b>2015</b> , 40, 5407-10	3	108
199	Real-time visualization of 3-D dynamic microscopic objects using optical diffraction tomography. <i>Optics Express</i> , <b>2013</b> , 21, 32269-78	3.3	107
198	Holographic deep learning for rapid optical screening of anthrax spores. <i>Science Advances</i> , <b>2017</b> , 3, e1700606	14.9	104

197	Speckle-field digital holographic microscopy. <i>Optics Express</i> , <b>2009</b> , 17, 12285-92	3.3	102
196	Effective temperature of red-blood-cell membrane fluctuations. <i>Physical Review Letters</i> , <b>2011</b> , 106, 238103	3.3	101
195	Profiling individual human red blood cells using common-path diffraction optical tomography. <i>Scientific Reports</i> , <b>2014</b> , 4, 6659	4.9	97
194	Label-free characterization of white blood cells by measuring 3D refractive index maps. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 3865-75	3.5	94
193	Digital optical phase conjugation for delivering two-dimensional images through turbid media. <i>Scientific Reports</i> , <b>2013</b> , 3, 1909	4.9	94
192	Measuring large optical transmission matrices of disordered media. <i>Physical Review Letters</i> , <b>2013</b> , 111, 153902	7.4	89
191	Optical measurement of biomechanical properties of individual erythrocytes from a sickle cell patient. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 4130-8	10.8	87
190	A facile route to efficient, low-cost flexible organic light-emitting diodes: utilizing the high refractive index and built-in scattering properties of industrial-grade PEN substrates. <i>Advanced Materials</i> , <b>2015</b> , 27, 1624-31	24	84
189	Ultrahigh-definition dynamic 3D holographic display by active control of volume speckle fields. <i>Nature Photonics</i> , <b>2017</b> , 11, 186-192	33.9	82
188	Measuring optical transmission matrices by wavefront shaping. <i>Optics Express</i> , <b>2015</b> , 23, 10158-67	3.3	80
187	Complex wavefront shaping for optimal depth-selective focusing in optical coherence tomography. <i>Optics Express</i> , <b>2013</b> , 21, 2890-902	3.3	79
186	Quantitative Phase Imaging and Artificial Intelligence: A Review. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2019</b> , 25, 1-14	3.8	78
185	Time-multiplexed structured illumination using a DMD for optical diffraction tomography. <i>Optics Letters</i> , <b>2017</b> , 42, 999-1002	3	77
184	Dynamic spectroscopic phase microscopy for quantifying hemoglobin concentration and dynamic membrane fluctuation in red blood cells. <i>Optics Express</i> , <b>2012</b> , 20, 9673-81	3.3	76
183	Common-path diffraction optical tomography for investigation of three-dimensional structures and dynamics of biological cells. <i>Optics Express</i> , <b>2014</b> , 22, 10398-407	3.3	75
182	Quantitative phase imaging unit. <i>Optics Letters</i> , <b>2014</b> , 39, 3630-3	3	72
181	Three-dimensional label-free imaging and quantification of lipid droplets in live hepatocytes. <i>Scientific Reports</i> , <b>2016</b> , 6, 36815	4.9	72
180	Identification of non-activated lymphocytes using three-dimensional refractive index tomography and machine learning. <i>Scientific Reports</i> , <b>2017</b> , 7, 6654	4.9	70

179	Polarization holographic microscopy for extracting spatio-temporally resolved Jones matrix. <i>Optics Express</i> , <b>2012</b> , 20, 9948-55	3.3	66
178	Biophysics of malarial parasite exit from infected erythrocytes. <i>PLoS ONE</i> , <b>2011</b> , 6, e20869	3.7	65
177	Static and dynamic light scattering of healthy and malaria-parasite invaded red blood cells. <i>Journal of Biomedical Optics</i> , <b>2010</b> , 15, 020506	3.5	64
176	Measurement of the nonlinear elasticity of red blood cell membranes. <i>Physical Review E</i> , <b>2011</b> , 83, 051925	4.4	60
175	Measuring cell surface area and deformability of individual human red blood cells over blood storage using quantitative phase imaging. <i>Scientific Reports</i> , <b>2016</b> , 6, 34257	4.9	59
174	Exploiting the speckle-correlation scattering matrix for a compact reference-free holographic image sensor. <i>Nature Communications</i> , <b>2016</b> , 7, 13359	17.4	59
173	Full-field subwavelength imaging using a scattering superlens. <i>Physical Review Letters</i> , <b>2014</b> , 113, 113901	7.4	58
172	Dynamic active wave plate using random nanoparticles. <i>Optics Express</i> , <b>2012</b> , 20, 17010	3.3	58
171	Characterizations of individual mouse red blood cells parasitized by Babesia microti using 3-D holographic microscopy. <i>Scientific Reports</i> , <b>2015</b> , 5, 10827	4.9	57
170	Random and V-groove texturing for efficient light trapping in organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 115, 36-41	6.4	56
169	Active spectral filtering through turbid media. <i>Optics Letters</i> , <b>2012</b> , 37, 3261-3	3	56
168	Refractive index tomograms and dynamic membrane fluctuations of red blood cells from patients with diabetes mellitus. <i>Scientific Reports</i> , <b>2017</b> , 7, 1039	4.9	55
167	Diffraction optical tomography using a quantitative phase imaging unit. <i>Optics Letters</i> , <b>2014</b> , 39, 6935-8	3	55
166	Fresnel particle tracing in three dimensions using diffraction phase microscopy. <i>Optics Letters</i> , <b>2007</b> , 32, 811-3	3	54
165	Simultaneous 3D visualization and position tracking of optically trapped particles using optical diffraction tomography. <i>Optica</i> , <b>2015</b> , 2, 343	8.6	53
164	Coherence properties of red blood cell membrane motions. <i>Physical Review E</i> , <b>2007</b> , 76, 031902	2.4	53
163	Ultrathin wide-angle large-area digital 3D holographic display using a non-periodic photon sieve. <i>Nature Communications</i> , <b>2019</b> , 10, 1304	17.4	52
162	Label-free identification of individual bacteria using Fourier transform light scattering. <i>Optics Express</i> , <b>2015</b> , 23, 15792-805	3.3	52

161	Optical imaging techniques for the study of malaria. <i>Trends in Biotechnology</i> , <b>2012</b> , 30, 71-9	15.1	51
160	Correlative three-dimensional fluorescence and refractive index tomography: bridging the gap between molecular specificity and quantitative bioimaging. <i>Biomedical Optics Express</i> , <b>2017</b> , 8, 5688-5697	7.5	50
159	PF155/RESA protein influences the dynamic microcirculatory behavior of ring-stage Plasmodium falciparum infected red blood cells. <i>Scientific Reports</i> , <b>2012</b> , 2, 614	4.9	50
158	Microrheology of red blood cell membranes using dynamic scattering microscopy. <i>Optics Express</i> , <b>2007</b> , 15, 17001-9	3.3	50
157	Imaging voltage-dependent cell motions with heterodyne Mach-Zehnder phase microscopy. <i>Optics Letters</i> , <b>2007</b> , 32, 1572-4	3	48
156	Label-free optical quantification of structural alterations in Alzheimer's disease. <i>Scientific Reports</i> , <b>2016</b> , 6, 31034	4.9	48
155	Hyperspectral optical diffraction tomography. <i>Optics Express</i> , <b>2016</b> , 24, 2006-12	3.3	46
154	Super-resolution three-dimensional fluorescence and optical diffraction tomography of live cells using structured illumination generated by a digital micromirror device. <i>Scientific Reports</i> , <b>2018</b> , 8, 9183	4.9	44
153	Label-free imaging of membrane potential using membrane electromotility. <i>Biophysical Journal</i> , <b>2012</b> , 103, 11-8	2.9	44
152	Measurements of morphological and biophysical alterations in individual neuron cells associated with early neurotoxic effects in Parkinson's disease. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2017</b> , 91, 510-518	4.6	43
151	Simple super-resolution live-cell imaging based on diffusion-assisted Föster resonance energy transfer. <i>Scientific Reports</i> , <b>2013</b> , 3, 1208	4.9	43
150	Spectro-refractometry of individual microscopic objects using swept-source quantitative phase imaging. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 10519-25	7.8	40
149	Depth-enhanced 2-D optical coherence tomography using complex wavefront shaping. <i>Optics Express</i> , <b>2014</b> , 22, 7514-23	3.3	38
148	Optical diffraction tomography techniques for the study of cell pathophysiology. <i>Journal of Biomedical Photonics and Engineering</i> , 020201-1-020201-16	2.4	38
147	Synthetic Fourier transform light scattering. <i>Optics Express</i> , <b>2013</b> , 21, 22453-63	3.3	37
146	Label-free non-invasive quantitative measurement of lipid contents in individual microalgal cells using refractive index tomography. <i>Scientific Reports</i> , <b>2018</b> , 8, 6524	4.9	36
145	The Effects of Ethanol on the Morphological and Biochemical Properties of Individual Human Red Blood Cells. <i>PLoS ONE</i> , <b>2015</b> , 10, e0145327	3.7	35
144	Biomedical applications of holographic microspectroscopy [invited]. <i>Applied Optics</i> , <b>2014</b> , 53, G111-22	1.7	35

143	Tomographic active optical trapping of arbitrarily shaped objects by exploiting 3D refractive index maps. <i>Nature Communications</i> , <b>2017</b> , 8, 15340	17.4	34
142	Angle-resolved light scattering of individual rod-shaped bacteria based on Fourier transform light scattering. <i>Scientific Reports</i> , <b>2014</b> , 4, 5090	4.9	34
141	White-light quantitative phase imaging unit. <i>Optics Express</i> , <b>2016</b> , 24, 9308-15	3.3	33
140	Crosstalk between PKA and Epac regulates the phenotypic maturation and function of human dendritic cells. <i>Journal of Immunology</i> , <b>2010</b> , 185, 3227-38	5.3	33
139	Perspective: Wavefront shaping techniques for controlling multiple light scattering in biological tissues: Toward in vivo applications. <i>APL Photonics</i> , <b>2018</b> , 3, 100901	5.2	32
138	High-Resolution 3-D Refractive Index Tomography and 2-D Synthetic Aperture Imaging of Live Phytoplankton. <i>Journal of the Optical Society of Korea</i> , <b>2014</b> , 18, 691-697		32
137	Learning-based screening of hematologic disorders using quantitative phase imaging of individual red blood cells. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 123, 69-76	11.8	32
136	Three-dimensional refractive index tomograms and deformability of individual human red blood cells from cord blood of newborn infants and maternal blood. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 111208	3.5	31
135	Light scattering of human red blood cells during metabolic remodeling of the membrane. <i>Journal of Biomedical Optics</i> , <b>2011</b> , 16, 011013	3.5	31
134	Improved phase sensitivity in spectral domain phase microscopy using line-field illumination and self phase-referencing. <i>Optics Express</i> , <b>2009</b> , 17, 10681-7	3.3	31
133	Optogenetic control of cell signaling pathway through scattering skull using wavefront shaping. <i>Scientific Reports</i> , <b>2015</b> , 5, 13289	4.9	30
132	Fourier transform light scattering angular spectroscopy using digital inline holography. <i>Optics Letters</i> , <b>2012</b> , 37, 4161-3	3	30
131	Cellular normoxic biophysical markers of hydroxyurea treatment in sickle cell disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 9527-32	11.5	30
130	Anisotropic light scattering of individual sickle red blood cells. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 040501	3.5	29
129	Cycle-consistent deep learning approach to coherent noise reduction in optical diffraction tomography. <i>Optics Express</i> , <b>2019</b> , 27, 4927-4943	3.3	29
128	Melittin-induced alterations in morphology and deformability of human red blood cells using quantitative phase imaging techniques. <i>Scientific Reports</i> , <b>2017</b> , 7, 9306	4.9	28
127	Ultrahigh enhancement of light focusing through disordered media controlled by mega-pixel modes. <i>Optics Express</i> , <b>2017</b> , 25, 8036-8047	3.3	28
126	Optical diffraction tomography using a digital micromirror device for stable measurements of 4D refractive index tomography of cells <b>2016</b> ,		27

125	Roadmap on digital holography [Invited]. <i>Optics Express</i> , <b>2021</b> , 29, 35078-35118	3.3	27
124	Effects of spatiotemporal coherence on interferometric microscopy. <i>Optics Express</i> , <b>2017</b> , 25, 8085-8097	3.3	26
123	LCD panel characterization by measuring full Jones matrix of individual pixels using polarization-sensitive digital holographic microscopy. <i>Optics Express</i> , <b>2014</b> , 22, 24304-11	3.3	26
122	Generalized quantification of three-dimensional resolution in optical diffraction tomography using the projection of maximal spatial bandwidths. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2018</b> , 35, 1891-1898	1.8	26
121	Holographic intravital microscopy for 2-D and 3-D imaging intact circulating blood cells in microcapillaries of live mice. <i>Scientific Reports</i> , <b>2016</b> , 6, 33084	4.9	26
120	Focusing through turbid media by polarization modulation. <i>Optics Letters</i> , <b>2015</b> , 40, 1667-70	3	25
119	Kramers-Kronig holographic imaging for high-space-bandwidth product. <i>Optica</i> , <b>2019</b> , 6, 45	8.6	25
118	Label-Free Tomographic Imaging of Lipid Droplets in Foam Cells for Machine-Learning-Assisted Therapeutic Evaluation of Targeted Nanodrugs. <i>ACS Nano</i> , <b>2020</b> , 14, 1856-1865	16.7	25
117	One-Wave Optical Phase Conjugation Mirror by Actively Coupling Arbitrary Light Fields into a Single-Mode Reflector. <i>Physical Review Letters</i> , <b>2015</b> , 115, 153902	7.4	24
116	Superresolution imaging with optical fluctuation using speckle patterns illumination. <i>Scientific Reports</i> , <b>2015</b> , 5, 16525	4.9	24
115	Label-free high-resolution 3-D imaging of gold nanoparticles inside live cells using optical diffraction tomography. <i>Methods</i> , <b>2018</b> , 136, 160-167	4.6	23
114	A Bacteria-Based Remotely Tunable Photonic Device. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600617	8.1	23
113	Optical characterization of red blood cells from individuals with sickle cell trait and disease in Tanzania using quantitative phase imaging. <i>Scientific Reports</i> , <b>2016</b> , 6, 31698	4.9	22
112	Measurement Techniques for Red Blood Cell Deformability: Recent Advances <b>2012</b> ,		22
111	T cells sense biophysical cues using lamellipodia and filopodia to optimize intraluminal path finding. <i>Integrative Biology (United Kingdom)</i> , <b>2014</b> , 6, 450-9	3.7	21
110	Ultraviolet refractometry using field-based light scattering spectroscopy. <i>Optics Express</i> , <b>2009</b> , 17, 18878-86	3.3	21
109	Measurements of three-dimensional refractive index tomography and membrane deformability of live erythrocytes from <i>Pelophylax nigromaculatus</i> . <i>Scientific Reports</i> , <b>2018</b> , 8, 9192	4.9	21
108	Holographic imaging through a scattering layer using speckle interferometry. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2017</b> , 34, 1392-1399	1.8	20



107	Non-resonant power-efficient directional Nd:YAG ceramic laser using a scattering cavity. <i>Nature Communications</i> , <b>2021</b> , 12, 8	17.4	20
106	Three-dimensional label-free imaging and analysis of Pinus pollen grains using optical diffraction tomography. <i>Scientific Reports</i> , <b>2018</b> , 8, 1782	4.9	19
105	In vivo deep tissue imaging using wavefront shaping optical coherence tomography. <i>Journal of Biomedical Optics</i> , <b>2016</b> , 21, 101406	3.5	19
104	Fourier-transform light scattering of individual colloidal clusters. <i>Optics Letters</i> , <b>2012</b> , 37, 2577-9	3	19
103	Beyond Born-Rytov limit for super-resolution optical diffraction tomography. <i>Optics Express</i> , <b>2017</b> , 25, 30445-30458	3.3	18
102	Compensation of aberration in quantitative phase imaging using lateral shifting and spiral phase integration. <i>Optics Express</i> , <b>2017</b> , 25, 30771-30779	3.3	18
101	Spectro-angular light scattering measurements of individual microscopic objects. <i>Optics Express</i> , <b>2014</b> , 22, 4108-14	3.3	18
100	Reference-free polarization-sensitive quantitative phase imaging using single-point optical phase conjugation. <i>Optics Express</i> , <b>2018</b> , 26, 26858-26865	3.3	18
99	Intensity-based holographic imaging via space-domain Kramers-Kronig relations. <i>Nature Photonics</i> , <b>2021</b> , 15, 354-360	33.9	18
98	Measuring large optical reflection matrices of turbid media. <i>Optics Communications</i> , <b>2015</b> , 352, 33-38	2	17
97	. <i>IEEE Access</i> , <b>2019</b> , 7, 83449-83460	3.5	17
96	Disordered Optics: Exploiting Multiple Light Scattering and Wavefront Shaping for Nonconventional Optical Elements. <i>Advanced Materials</i> , <b>2020</b> , 32, e1903457	24	17
95	Reference-Free Single-Point Holographic Imaging and Realization of an Optical Bidirectional Transducer. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4.3	16
94	Large-scale optical diffraction tomography for inspection of optical plastic lenses. <i>Optics Letters</i> , <b>2016</b> , 41, 934-7	3	16
93	Three-dimensional label-free observation of individual bacteria upon antibiotic treatment using optical diffraction tomography. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 1257-1267	3.5	15
92	Holotomography: refractive index as an intrinsic imaging contrast for 3-D label-free live cell imaging		15
91	High-Resolution Holographic Microscopy Exploiting Speckle-Correlation Scattering Matrix. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	14
90	Mitotic Chromosomes in Live Cells Characterized Using High-Speed and Label-Free Optical Diffraction Tomography. <i>Cells</i> , <b>2019</b> , 8,	7.9	12



89	Combining Three-Dimensional Quantitative Phase Imaging and Fluorescence Microscopy for the Study of Cell Pathophysiology. <i>Yale Journal of Biology and Medicine</i> , <b>2018</b> , 91, 267-277	2.4	12
88	Deep-learning-based three-dimensional label-free tracking and analysis of immunological synapses of CAR-T cells. <i>ELife</i> , <b>2020</b> , 9,	8.9	12
87	Multiscale label-free volumetric holographic histopathology of thick-tissue slides with subcellular resolution. <i>Advanced Photonics</i> , <b>2021</b> , 3,	8.1	12
86	Reconstructions of refractive index tomograms via a discrete algebraic reconstruction technique. <i>Optics Express</i> , <b>2017</b> , 25, 27415-27430	3.3	11
85	Measurements of morphology and refractive indexes on human downy hairs using three-dimensional quantitative phase imaging. <i>Journal of Biomedical Optics</i> , <b>2015</b> , 20, 111207	3.5	10
84	Low-coherent optical diffraction tomography by angle-scanning illumination. <i>Journal of Biophotonics</i> , <b>2019</b> , 12, e201800289	3.1	10
83	Imaging through scattering media using digital holography. <i>Optics Communications</i> , <b>2019</b> , 439, 218-223	2	9
82	Scattering Optical Elements: Stand-Alone Optical Elements Exploiting Multiple Light Scattering. <i>ACS Nano</i> , <b>2016</b> , 10, 6871-6	16.7	9
81	Element stacking method for topology optimization with material-dependent boundary and loading conditions. <i>Journal of Mechanics of Materials and Structures</i> , <b>2007</b> , 2, 883-895	1.2	9
80	Significantly different expression levels of microRNAs associated with vascular invasion in hepatocellular carcinoma and their prognostic significance after surgical resection. <i>PLoS ONE</i> , <b>2019</b> , 14, e0216847	3.7	8
79	Measurements of complex refractive index change of photoactive yellow protein over a wide wavelength range using hyperspectral quantitative phase imaging. <i>Scientific Reports</i> , <b>2018</b> , 8, 3064	4.9	8
78	Deep learning-based optical field screening for robust optical diffraction tomography. <i>Scientific Reports</i> , <b>2019</b> , 9, 15239	4.9	8
77	Remote sensing of pressure inside deformable microchannels using light scattering in Scotch tape. <i>Optics Letters</i> , <b>2016</b> , 41, 1837-40	3	8
76	Measurements of polarization-dependent angle-resolved light scattering from individual microscopic samples using Fourier transform light scattering. <i>Optics Express</i> , <b>2018</b> , 26, 7701-7711	3.3	7
75	Low-coherence optical diffraction tomography using a ferroelectric liquid crystal spatial light modulator. <i>Optics Express</i> , <b>2020</b> , 28, 39649-39659	3.3	7
74	Roadmap on Digital Holography-Based Quantitative Phase Imaging.. <i>Journal of Imaging</i> , <b>2021</b> , 7,	3.1	7
73	Study of Optical Configurations for Multiple Enhancement of Microalgal Biomass Production. <i>Scientific Reports</i> , <b>2019</b> , 9, 1723	4.9	7
72	Optimizing illumination in three-dimensional deconvolution microscopy for accurate refractive index tomography. <i>Optics Express</i> , <b>2021</b> , 29, 6293-6301	3.3	7

71	Time-reversing a monochromatic subwavelength optical focus by optical phase conjugation of multiply-scattered light. <i>Scientific Reports</i> , <b>2017</b> , 7, 41384	4.9	6
70	Optical Measurements of Three-Dimensional Microscopic Temperature Distributions Around Gold Nanorods Excited by Localized Surface Plasmon Resonance. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	6
69	Interpreting Intensity Speckle as the Coherency Matrix of Classical Light. <i>Physical Review Applied</i> , <b>2019</b> , 12,	4.3	6
68	Universal sensitivity of speckle intensity correlations to wavefront change in light diffusers. <i>Scientific Reports</i> , <b>2017</b> , 7, 44435	4.9	6
67	Common-path diffraction optical tomography with a low-coherence illumination for reducing speckle noise <b>2015</b> ,		6
66	Optical Sensing of Red Blood Cell Dynamics <b>2011</b> , 279-309		6
65	DeepRegularizer: Rapid Resolution Enhancement of Tomographic Imaging Using Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 1508-1518	11.7	6
64	Label-free three-dimensional observations and quantitative characterisation of on-chip vasculogenesis using optical diffraction tomography. <i>Lab on A Chip</i> , <b>2021</b> , 21, 494-501	7.2	6
63	Label-Free Identification of Lymphocyte Subtypes Using Three-Dimensional Quantitative Phase Imaging and Machine Learning. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	6
62	Speckle-Correlation Scattering Matrix Approaches for Imaging and Sensing through Turbidity. <i>Sensors</i> , <b>2020</b> , 20,	3.8	5
61	Visualization and label-free quantification of microfluidic mixing using quantitative phase imaging. <i>Applied Optics</i> , <b>2017</b> , 56, 6341-6347	1.7	5
60	Collaborative effects of wavefront shaping and optical clearing agent in optical coherence tomography. <i>Journal of Biomedical Optics</i> , <b>2016</b> , 21, 121510	3.5	5
59	Single-molecule functional anatomy of endogenous HER2-HER3 heterodimers. <i>ELife</i> , <b>2020</b> , 9,	8.9	5
58	Label-free high-resolution 3-D imaging of gold nanoparticles inside live cells using optical diffraction tomography		5
57	Reconstructed Three-Dimensional Images and Parameters of Individual Erythrocytes Using Optical Diffraction Tomography Microscopy. <i>Annals of Laboratory Medicine</i> , <b>2019</b> , 39, 223-226	3.1	5
56	Finite-difference time-domain analysis of increased penetration depth in optical coherence tomography by wavefront shaping. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 3883-3897	3.5	5
55	Label-free multiplexed microtomography of endogenous subcellular dynamics using generalizable deep learning. <i>Nature Cell Biology</i> , <b>2021</b> ,	23.4	5
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51	Measurements of morphological and biochemical alterations in individual neuron cells associated with early neurotoxic effects in Parkinson's disease		4
50	Data-driven multiplexed microtomography of endogenous subcellular dynamics		4
49	Isotropically resolved label-free tomographic imaging based on tomographic moulds for optical trapping. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 102	16.7	4
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47	Computational approach to dark-field optical diffraction tomography. <i>APL Photonics</i> , <b>2020</b> , 5, 040804	5.2	3
46	Energy leakage in partially measured scattering matrices of disordered media. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	3
45	Deep-learning based three-dimensional label-free tracking and analysis of immunological synapses of chimeric antigen receptor T cells		3
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29	Label-free identification of non-activated lymphocytes using three-dimensional refractive index tomography and machine learning		2
28	Holographic deep learning for rapid optical screening of anthrax spores		2
27	Correlative three-dimensional fluorescence and refractive index tomography: bridging the gap between molecular specificity and quantitative bioimaging		2
26	Label-free three-dimensional observations and quantitative characterisation of on-chip vasculogenesis using optical diffraction tomography		2
25	Deep-learning-based label-free segmentation of cell nuclei in time-lapse refractive index tomograms		2
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14	Refractive index tomograms and dynamic membrane fluctuations of red blood cells from patients with diabetes mellitus		1
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