

# YongKeun Park

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7433782/yongkeun-park-publications-by-year.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Inverse problem solver for multiple light scattering using modified Born series. <i>Optica</i> , <b>2022</b> , 9, 177	8.6	2
213	Single-shot wide-field topography measurement using spectrally multiplexed reflection intensity holography via space-domain Kramers-Kronig relations.. <i>Optics Letters</i> , <b>2022</b> , 47, 1025-1028	3	2
212	Roadmap on chaos-inspired imaging technologies (CI2-Tech). <i>Applied Physics B: Lasers and Optics</i> , <b>2022</b> , 128, 1	1.9	3
211	Tomographic measurement of dielectric tensors at optical frequency.. <i>Nature Materials</i> , <b>2022</b> , 21, 317-324	24	1
210	Quantitative phase and refractive index imaging of 3D objects via optical transfer function reshaping.. <i>Optics Express</i> , <b>2022</b> , 30, 13802-13809	3.3	2
209	Single-Shot Reference-Free Holographic Imaging using a Liquid Crystal Geometric Phase Diffuser. <i>Laser and Photonics Reviews</i> , <b>2022</b> , 16, 2100559	8.3	3
208	Roadmap on Digital Holography-Based Quantitative Phase Imaging.. <i>Journal of Imaging</i> , <b>2021</b> , 7,	3.1	7
207	Correlation of dynamic membrane fluctuations in red blood cells with diabetes mellitus and cardiovascular risks. <i>Scientific Reports</i> , <b>2021</b> , 11, 7007	4.9	2
206	Chemotherapy confers a conserved secondary tolerance to EGFR inhibition via AXL-mediated signaling bypass. <i>Scientific Reports</i> , <b>2021</b> , 11, 8016	4.9	2
205	Multiscale label-free volumetric holographic histopathology of thick-tissue slides with subcellular resolution. <i>Advanced Photonics</i> , <b>2021</b> , 3,	8.1	12
204	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
203	Detection of intracellular monosodium urate crystals in gout synovial fluid using optical diffraction tomography. <i>Scientific Reports</i> , <b>2021</b> , 11, 10019	4.9	2
202	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
201	Pupil-aberration calibration with controlled illumination for quantitative phase imaging. <i>Optics Express</i> , <b>2021</b> , 29, 22127-22135	3.3	0
200	Label-Free Quantitative Analysis of Coacervates via 3D Phase Imaging. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100697	8.1	3
199	Three-dimensional label-free visualization and quantification of polyhydroxyalkanoates in individual bacterial cell in its native state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	3
198	Label-Free White Blood Cell Classification Using Refractive Index Tomography and Deep Learning. <i>BME Frontiers</i> , <b>2021</b> , 2021, 1-9	4.4	3

197	Enhancing sensitivity in absorption spectroscopy using a scattering cavity. <i>Scientific Reports</i> , <b>2021</b> , 11, 14916	4.9	2
196	Missing Cone Artifact Removal in ODT Using Unsupervised Deep Learning in the Projection Domain. <i>IEEE Transactions on Computational Imaging</i> , <b>2021</b> , 7, 747-758	4.5	0
195	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
194	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
193	Intensity-based holographic imaging via space-domain Kramers-Kronig relations. <i>Nature Photonics</i> , <b>2021</b> , 15, 354-360	33.9	18
192	Label-free monitoring of 3D cortical neuronal growth using optical diffraction tomography. <i>Biomedical Optics Express</i> , <b>2021</b> , 12, 6928-6939	3.5	1
191	Roadmap on digital holography [Invited]. <i>Optics Express</i> , <b>2021</b> , 29, 35078-35118	3.3	27
190	Reagent- and actuator-free analysis of individual erythrocytes using three-dimensional quantitative phase imaging and capillary microfluidics. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 348, 130689	8.5	0
189	Holotomography: Refractive Index as an Intrinsic Imaging Contrast for 3-D Label-Free Live Cell Imaging. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1310, 211-238	3.6	4
188	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
187	Label-free multiplexed microtomography of endogenous subcellular dynamics using generalizable deep learning. <i>Nature Cell Biology</i> , <b>2021</b> ,	23.4	5
186	Effects of osmolality and solutes on the morphology of red blood cells according to three-dimensional refractive index tomography.. <i>PLoS ONE</i> , <b>2021</b> , 16, e0262106	3.7	1
185	3D morphological and biophysical changes in a single tachyzoite and its infected cells using three-dimensional quantitative phase imaging. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e202000055	3.1	2
184	Speckle-Correlation Scattering Matrix Approaches for Imaging and Sensing through Turbidity. <i>Sensors</i> , <b>2020</b> , 20,	3.8	5
183	Fluid-Matrix Interface Triggers a Heterogeneous Activation of Macrophages.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 4294-4301	4.1	
182	Computational approach to dark-field optical diffraction tomography. <i>APL Photonics</i> , <b>2020</b> , 5, 040804	5.2	3
181	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
180	Three-dimensional label-free imaging and quantification of migrating cells during wound healing. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 6812-6824	3.5	2

179	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
178	Calibration-free quantitative phase imaging using data-driven aberration modeling. <i>Optics Express</i> , <b>2020</b> , 28, 34835-34847	3.3	4
177	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
176	Single-molecule functional anatomy of endogenous HER2-HER3 heterodimers. <i>ELife</i> , <b>2020</b> , 9,	8.9	5
175	Disordered Optics: Exploiting Multiple Light Scattering and Wavefront Shaping for Nonconventional Optical Elements. <i>Advanced Materials</i> , <b>2020</b> , 32, e1903457	24	17
174	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
173	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
172	Imaging through scattering media using digital holography. <i>Optics Communications</i> , <b>2019</b> , 439, 218-223	2	9
171	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
170	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
169	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
168	Interpreting Intensity Speckle as the Coherency Matrix of Classical Light. <i>Physical Review Applied</i> , <b>2019</b> , 12,	4.3	6
167	. <i>IEEE Access</i> , <b>2019</b> , 7, 83449-83460	3.5	17
166	Deep learning-based optical field screening for robust optical diffraction tomography. <i>Scientific Reports</i> , <b>2019</b> , 9, 15239	4.9	8
165	Three-Dimensional Shapes and Cell Deformability of Rat Red Blood Cells during and after Asphyxial Cardiac Arrest. <i>Emergency Medicine International</i> , <b>2019</b> , 2019, 6027236	1.4	2
164	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
163	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
162	Kramers-Kronig holographic imaging for high-space-bandwidth product. <i>Optica</i> , <b>2019</b> , 6, 45	8.6	25

161	Study of Optical Configurations for Multiple Enhancement of Microalgal Biomass Production. <i>Scientific Reports</i> , <b>2019</b> , 9, 1723	4.9	7
160	Unique Red Blood Cell Morphology Detected in a Patient with Myelodysplastic Syndrome by Three-dimensional Refractive Index Tomography. <i>Laboratory Medicine Online</i> , <b>2019</b> , 9, 185	0.2	0
159	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
158	Low-coherent optical diffraction tomography by angle-scanning illumination. <i>Journal of Biophotonics</i> , <b>2019</b> , 12, e201800289	3.1	10
157	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
156	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
155	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
154	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
153	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
152	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
151	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
150	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
149	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
148	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
147	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
146	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
145	Enhancement of optical resolution in three-dimensional refractive-index tomograms of biological samples by employing micromirror-embedded coverslips. <i>Lab on A Chip</i> , <b>2018</b> , 18, 3484-3491	7.2	1
144	Automated Identification of Bacteria using Three-Dimensional Holographic Imaging and Convolutional Neural Network <b>2018</b> ,		2

143	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
142	Quantitative phase imaging in biomedicine. <i>Nature Photonics</i> , <b>2018</b> , 12, 578-589	33.9	455
141	High-Resolution Holographic Microscopy Exploiting Speckle-Correlation Scattering Matrix. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	14
140	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
139	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
138	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
137	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
136	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
135	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
134	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
133	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
132	[Invited Paper] Review: 3D Holographic Imaging and Display Exploiting Complex Optics. <i>ITE Transactions on Media Technology and Applications</i> , <b>2017</b> , 5, 78-87	0.7	2
131	Time-multiplexed structured illumination using a DMD for optical diffraction tomography. <i>Optics Letters</i> , <b>2017</b> , 42, 999-1002	3	77
130	Holographic deep learning for rapid optical screening of anthrax spores. <i>Science Advances</i> , <b>2017</b> , 3, e1700696	14.9	104
129	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
128	Generalized image deconvolution by exploiting the transmission matrix of an optical imaging system. <i>Scientific Reports</i> , <b>2017</b> , 7, 8961	4.9	4
127	Universal sensitivity of speckle intensity correlations to wavefront change in light diffusers. <i>Scientific Reports</i> , <b>2017</b> , 7, 44435	4.9	6
126	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

125	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
124	A Bacteria-Based Remotely Tunable Photonic Device. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600617	8.1	23
123	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
122	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
121	Effects of spatiotemporal coherence on interferometric microscopy. <i>Optics Express</i> , <b>2017</b> , 25, 8085-8097	3.3	26
120	Beyond Born-Rytov limit for super-resolution optical diffraction tomography. <i>Optics Express</i> , <b>2017</b> , 25, 30445-30458	3.3	18
119	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	3.5	50
118	Reconstructions of refractive index tomograms via a discrete algebraic reconstruction technique. <i>Optics Express</i> , <b>2017</b> , 25, 27415-27430	3.3	11
117	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
116	White-light quantitative phase imaging unit. <i>Optics Express</i> , <b>2016</b> , 24, 9308-15	3.3	33
115	Hyperspectral optical diffraction tomography. <i>Optics Express</i> , <b>2016</b> , 24, 2006-12	3.3	46
114	Energy leakage in partially measured scattering matrices of disordered media. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	3
113	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
112	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
111	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
110	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
109	Scattering Optical Elements: Stand-Alone Optical Elements Exploiting Multiple Light Scattering. <i>ACS Nano</i> , <b>2016</b> , 10, 6871-6	16.7	9
108	Optical diffraction tomography using a digital micromirror device for stable measurements of 4D refractive index tomography of cells <b>2016</b> ,		27

107	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
106	Large-scale optical diffraction tomography for inspection of optical plastic lenses. <i>Optics Letters</i> , <b>2016</b> , 41, 934-7	3	16
105	Quantitative phase imaging of fluid mixing in microfluid chips <b>2016</b> ,		2
104	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
103	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
102	Label-free optical quantification of structural alterations in Alzheimer's disease. <i>Scientific Reports</i> , <b>2016</b> , 6, 31034	4.9	48
101	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
100	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
99	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
98	Measuring large optical reflection matrices of turbid media. <i>Optics Communications</i> , <b>2015</b> , 352, 33-38	2	17
97	Recent advances in wavefront shaping techniques for biomedical applications. <i>Current Applied Physics</i> , <b>2015</b> , 15, 632-641	2.6	134
96	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
95	Focusing through turbid media by polarization modulation. <i>Optics Letters</i> , <b>2015</b> , 40, 1667-70	3	25
94	Measuring optical transmission matrices by wavefront shaping. <i>Optics Express</i> , <b>2015</b> , 23, 10158-67	3.3	80
93	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
92	Label-free identification of individual bacteria using Fourier transform light scattering. <i>Optics Express</i> , <b>2015</b> , 23, 15792-805	3.3	52
91	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
90	Experimental observations of spectral changes produced by individual microscopic spheres. <i>Optics Letters</i> , <b>2015</b> , 40, 1093-6	3	2



89	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
88	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
87	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
86	Optogenetic control of cell signaling pathway through scattering skull using wavefront shaping. <i>Scientific Reports</i> , <b>2015</b> , 5, 13289	4.9	30
85	Superresolution imaging with optical fluctuation using speckle patterns illumination. <i>Scientific Reports</i> , <b>2015</b> , 5, 16525	4.9	24
84	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
83	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
82	Common-path diffraction optical tomography with a low-coherence illumination for reducing speckle noise <b>2015</b> ,		6
81	Active illumination using a digital micromirror device for quantitative phase imaging. <i>Optics Letters</i> , <b>2015</b> , 40, 5407-10	3	108
80	Hybrid application of complex wavefront shaping optical coherence tomography and optical clearing agents for the penetration depth enhancement <b>2015</b> ,		1
79	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
78	Profiling individual human red blood cells using common-path diffraction optical tomography. <i>Scientific Reports</i> , <b>2014</b> , 4, 6659	4.9	97
77	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
76	Full-field subwavelength imaging using a scattering superlens. <i>Physical Review Letters</i> , <b>2014</b> , 113, 113901	7.4	58
75	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
74	Diffraction optical tomography using a quantitative phase imaging unit. <i>Optics Letters</i> , <b>2014</b> , 39, 6935-8	3	55
73	Quantitative phase imaging unit. <i>Optics Letters</i> , <b>2014</b> , 39, 3630-3	3	72
72	Biomedical applications of holographic microspectroscopy [invited]. <i>Applied Optics</i> , <b>2014</b> , 53, G111-22	1.7	35

71	Depth-enhanced 2-D optical coherence tomography using complex wavefront shaping. <i>Optics Express</i> , <b>2014</b> , 22, 7514-23	3.3	38
70	Spectro-angular light scattering measurements of individual microscopic objects. <i>Optics Express</i> , <b>2014</b> , 22, 4108-14	3.3	18
69	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
68	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
67	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
66	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
65	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
64	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
63	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
62	Subwavelength light focusing using random nanoparticles. <i>Nature Photonics</i> , <b>2013</b> , 7, 454-458	33.9	125
61	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
60	Synthetic Fourier transform light scattering. <i>Optics Express</i> , <b>2013</b> , 21, 22453-63	3.3	37
59	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
58	Measuring large optical transmission matrices of disordered media. <i>Physical Review Letters</i> , <b>2013</b> , 111, 153902	7.4	89
57	Digital optical phase conjugation for delivering two-dimensional images through turbid media. <i>Scientific Reports</i> , <b>2013</b> , 3, 1909	4.9	94
56	Optical imaging techniques for the study of malaria. <i>Trends in Biotechnology</i> , <b>2012</b> , 30, 71-9	15.1	51
55	Label-free imaging of membrane potential using membrane electromotility. <i>Biophysical Journal</i> , <b>2012</b> , 103, 11-8	2.9	44
54	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

53	Measurement Techniques for Red Blood Cell Deformability: Recent Advances <b>2012</b> ,		22
52	Polarization holographic microscopy for extracting spatio-temporally resolved Jones matrix. <i>Optics Express</i> , <b>2012</b> , 20, 9948-55	3-3	66
51	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
50	Dynamic active wave plate using random nanoparticles. <i>Optics Express</i> , <b>2012</b> , 20, 17010	3-3	58
49	Fourier transform light scattering angular spectroscopy using digital inline holography. <i>Optics Letters</i> , <b>2012</b> , 37, 4161-3	3	30
48	Active spectral filtering through turbid media. <i>Optics Letters</i> , <b>2012</b> , 37, 3261-3	3	56
47	Fourier-transform light scattering of individual colloidal clusters. <i>Optics Letters</i> , <b>2012</b> , 37, 2577-9	3	19
46	Anisotropic light scattering of individual sickle red blood cells. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 040501	3-5	29
45	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
44	Effective temperature of red-blood-cell membrane fluctuations. <i>Physical Review Letters</i> , <b>2011</b> , 106, 238103	10-3	101
43	Measurement of the nonlinear elasticity of red blood cell membranes. <i>Physical Review E</i> , <b>2011</b> , 83, 051925	10-4	60
42	Optical Sensing of Red Blood Cell Dynamics <b>2011</b> , 279-309		6
41	Real-time quantitative phase imaging with a spatial phase-shifting algorithm. <i>Optics Letters</i> , <b>2011</b> , 36, 4677-9	3	143
40	Metabolic remodeling of the human red blood cell membrane measured by quantitative phase microscopy <b>2011</b> ,		1
39	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
38	Biophysics of malarial parasite exit from infected erythrocytes. <i>PLoS ONE</i> , <b>2011</b> , 6, e20869	3-7	65
37	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
36	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

35	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
34	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
33	Spectroscopic phase microscopy for quantifying hemoglobin concentrations in intact red blood cells. <i>Optics Letters</i> , <b>2009</b> , 34, 3668-70	3	136
32	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
31	Speckle-field digital holographic microscopy. <i>Optics Express</i> , <b>2009</b> , 17, 12285-92	3.3	102
30	Ultraviolet refractometry using field-based light scattering spectroscopy. <i>Optics Express</i> , <b>2009</b> , 17, 18878-86	3.6	21
29	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
28	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> , <b>2008</b> , 105, 13730-5	11.5	464
27	Coherence properties of red blood cell membrane motions. <i>Physical Review E</i> , <b>2007</b> , 76, 031902	2.4	53
26	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
25	Fresnel particle tracing in three dimensions using diffraction phase microscopy. <i>Optics Letters</i> , <b>2007</b> , 32, 811-3	3	54
24	Imaging voltage-dependent cell motions with heterodyne Mach-Zehnder phase microscopy. <i>Optics Letters</i> , <b>2007</b> , 32, 1572-4	3	48
23	Microrheology of red blood cell membranes using dynamic scattering microscopy. <i>Optics Express</i> , <b>2007</b> , 15, 17001-9	3.3	50
22	Diffraction phase and fluorescence microscopy. <i>Optics Express</i> , <b>2006</b> , 14, 8263-8	3.3	188
21	Scattering superlens. <i>SPIE Newsroom</i> ,		2
20	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
19	Real-time monitoring of bacterial growth and fast antimicrobial susceptibility tests exploiting multiple light scattering		1
18	Physicochemical Properties of Chromosomes in Live Cells Characterized by Label-Free Imaging and Fluorescence Correlation Spectroscopy		2

17	Rapid label-free identification of pathogenic bacteria species from a minute quantity exploiting three-dimensional quantitative phase imaging and artificial neural network	4
16	Measurements of morphological and biochemical alterations in individual neuron cells associated with early neurotoxic effects in Parkinson's disease	4
15	Refractive index tomograms and dynamic membrane fluctuations of red blood cells from patients with diabetes mellitus	1
14	Melittin-induced alterations in morphology and deformability of human red blood cells using quantitative phase imaging techniques	2
13	Label-free high-resolution 3-D imaging of gold nanoparticles inside live cells using optical diffraction tomography	5
12	Holotomography: refractive index as an intrinsic imaging contrast for 3-D label-free live cell imaging	15
11	Label-free identification of non-activated lymphocytes using three-dimensional refractive index tomography and machine learning	2
10	Holographic deep learning for rapid optical screening of anthrax spores	2
9	Correlative three-dimensional fluorescence and refractive index tomography: bridging the gap between molecular specificity and quantitative bioimaging	2
8	Label-free three-dimensional observations and quantitative characterisation of on-chip vasculogenesis using optical diffraction tomography	2
7	Data-driven multiplexed microtomography of endogenous subcellular dynamics	4
6	Label-free non-invasive quantitative measurement of lipid contents in individual microalgal cells using refractive index tomography	1
5	Deep-learning-based label-free segmentation of cell nuclei in time-lapse refractive index tomograms	2
4	Deep-learning based three-dimensional label-free tracking and analysis of immunological synapses of chimeric antigen receptor T cells	3
3	Three-dimensional label-free observation of individual bacteria upon antibiotic treatment using optical diffraction tomography	1
2	Measuring three-dimensional dynamics of platelet activation using 3-D quantitative phase imaging	1
1	Rapid antimicrobial susceptibility test using spatiotemporal analysis of laser speckle dynamics of bacterial colonies	2