

YongKeun Park

List of Publications by Year in descending order

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274
papers

12,827
citations

22099

59
h-index

30848

102
g-index

313
all docs

313
docs citations

313
times ranked

7038
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative phase imaging in biomedicine. <i>Nature Photonics</i> , 2018, 12, 578-589.	15.6	1,028
2	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, 13730-13735.	3.3	619
3	Quantitative Phase Imaging Techniques for the Study of Cell Pathophysiology: From Principles to Applications. <i>Sensors</i> , 2013, 13, 4170-4191.	2.1	436
4	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, 6731-6736.	3.3	381
5	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, 1289-1294.	3.3	358
6	Diffraction phase and fluorescence microscopy. <i>Optics Express</i> , 2006, 14, 8263.	1.7	246
7	High-resolution three-dimensional imaging of red blood cells parasitized by <i>Plasmodium falciparum</i> and in situ hemozoin crystals using optical diffraction tomography. <i>Journal of Biomedical Optics</i> , 2013, 19, 1.	1.4	240
8	Comparative study of iterative reconstruction algorithms for missing cone problems in optical diffraction tomography. <i>Optics Express</i> , 2015, 23, 16933.	1.7	226
9	Imaging red blood cell dynamics by quantitative phase microscopy. <i>Blood Cells, Molecules, and Diseases</i> , 2008, 41, 10-16.	0.6	200
10	Recent advances in wavefront shaping techniques for biomedical applications. <i>Current Applied Physics</i> , 2015, 15, 632-641.	1.1	194
11	Real-time quantitative phase imaging with a spatial phase-shifting algorithm. <i>Optics Letters</i> , 2011, 36, 4677.	1.7	189
12	Spectroscopic phase microscopy for quantifying hemoglobin concentrations in intact red blood cells. <i>Optics Letters</i> , 2009, 34, 3668.	1.7	185
13	Active illumination using a digital micromirror device for quantitative phase imaging. <i>Optics Letters</i> , 2015, 40, 5407.	1.7	168
14	Real-time visualization of 3-D dynamic microscopic objects using optical diffraction tomography. <i>Optics Express</i> , 2013, 21, 32269.	1.7	161
15	Subwavelength light focusing using random nanoparticles. <i>Nature Photonics</i> , 2013, 7, 454-458.	15.6	160
16	Antibacterial Activities of Graphene Oxide/Molybdenum Disulfide Nanocomposite Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7908-7917.	4.0	150
17	Ultrahigh-definition dynamic 3D holographic display by active control of volume speckle fields. <i>Nature Photonics</i> , 2017, 11, 186-192.	15.6	148
18	Holographic deep learning for rapid optical screening of anthrax spores. <i>Science Advances</i> , 2017, 3, e1700606.	4.7	143

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19	Speckle-field digital holographic microscopy. <i>Optics Express</i> , 2009, 17, 12285.	1.7	137
20	Label-free characterization of white blood cells by measuring 3D refractive index maps. <i>Biomedical Optics Express</i> , 2015, 6, 3865.	1.5	133
21	Roadmap on digital holography [Invited]. <i>Optics Express</i> , 2021, 29, 35078.	1.7	133
22	Profiling individual human red blood cells using common-path diffraction optical tomography. <i>Scientific Reports</i> , 2014, 4, 6659.	1.6	127
23	Effective Temperature of Red-Blood-Cell Membrane Fluctuations. <i>Physical Review Letters</i> , 2011, 106, 238103.	2.9	125
24	Digital optical phase conjugation for delivering two-dimensional images through turbid media. <i>Scientific Reports</i> , 2013, 3, 1909.	1.6	125
25	Quantitative Phase Imaging and Artificial Intelligence: A Review. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-14.	1.9	123
26	Three-dimensional label-free imaging and quantification of lipid droplets in live hepatocytes. <i>Scientific Reports</i> , 2016, 6, 36815.	1.6	121
27	Measuring Large Optical Transmission Matrices of Disordered Media. <i>Physical Review Letters</i> , 2013, 111, 153902.	2.9	117
28	Time-multiplexed structured illumination using a DMD for optical diffraction tomography. <i>Optics Letters</i> , 2017, 42, 999.	1.7	116
29	Optical measurement of biomechanical properties of individual erythrocytes from a sickle cell patient. <i>Acta Biomaterialia</i> , 2012, 8, 4130-4138.	4.1	112
30	Measuring optical transmission matrices by wavefront shaping. <i>Optics Express</i> , 2015, 23, 10158.	1.7	112
31	Common-path diffraction optical tomography for investigation of three-dimensional structures and dynamics of biological cells. <i>Optics Express</i> , 2014, 22, 10398.	1.7	111
32	Identification of non-activated lymphocytes using three-dimensional refractive index tomography and machine learning. <i>Scientific Reports</i> , 2017, 7, 6654.	1.6	105
33	Quantitative phase imaging unit. <i>Optics Letters</i> , 2014, 39, 3630.	1.7	102
34	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> , 2015, 27, 1624-1631.	11.1	101
35	Complex wavefront shaping for optimal depth-selective focusing in optical coherence tomography. <i>Optics Express</i> , 2013, 21, 2890.	1.7	99
36	Dynamic spectroscopic phase microscopy for quantifying hemoglobin concentration and dynamic membrane fluctuation in red blood cells. <i>Optics Express</i> , 2012, 20, 9673.	1.7	97

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37	Polarization holographic microscopy for extracting spatio-temporally resolved Jones matrix. <i>Optics Express</i> , 2012, 20, 9948.	1.7	91
38	Ultrathin wide-angle large-area digital 3D holographic display using a non-periodic photon sieve. <i>Nature Communications</i> , 2019, 10, 1304.	5.8	89
39	Exploiting the speckle-correlation scattering matrix for a compact reference-free holographic image sensor. <i>Nature Communications</i> , 2016, 7, 13359.	5.8	88
40	Static and dynamic light scattering of healthy and malaria-parasite invaded red blood cells. <i>Journal of Biomedical Optics</i> , 2010, 15, 020506.	1.4	85
41	Biophysics of Malarial Parasite Exit from Infected Erythrocytes. <i>PLoS ONE</i> , 2011, 6, e20869.	1.1	84
42	Full-Field Subwavelength Imaging Using a Scattering Superlens. <i>Physical Review Letters</i> , 2014, 113, 113901.	2.9	81
43	Diffraction optical tomography using a quantitative phase imaging unit. <i>Optics Letters</i> , 2014, 39, 6935.	1.7	80
44	Intensity-based holographic imaging via space-domain Kramersâ€“Kronig relations. <i>Nature Photonics</i> , 2021, 15, 354-360.	15.6	80
45	Dynamic active wave plate using random nanoparticles. <i>Optics Express</i> , 2012, 20, 17010.	1.7	79
46	Simultaneous 3D visualization and position tracking of optically trapped particles using optical diffraction tomography. <i>Optica</i> , 2015, 2, 343.	4.8	79
47	Characterizations of individual mouse red blood cells parasitized by <i>Babesia microti</i> using 3-D holographic microscopy. <i>Scientific Reports</i> , 2015, 5, 10827.	1.6	78
48	Refractive index tomograms and dynamic membrane fluctuations of red blood cells from patients with diabetes mellitus. <i>Scientific Reports</i> , 2017, 7, 1039.	1.6	77
49	Active spectral filtering through turbid media. <i>Optics Letters</i> , 2012, 37, 3261.	1.7	76
50	Kramersâ€“Kronig holographic imaging for high-space-bandwidth product. <i>Optica</i> , 2019, 6, 45.	4.8	75
51	Measurement of the nonlinear elasticity of red blood cell membranes. <i>Physical Review E</i> , 2011, 83, 051925.	0.8	74
52	Measuring cell surface area and deformability of individual human red blood cells over blood storage using quantitative phase imaging. <i>Scientific Reports</i> , 2016, 6, 34257.	1.6	74
53	Optical imaging techniques for the study of malaria. <i>Trends in Biotechnology</i> , 2012, 30, 71-79.	4.9	72
54	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> , 2017, 91, 510-518.	1.1	71

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55	Correlative three-dimensional fluorescence and refractive index tomography: bridging the gap between molecular specificity and quantitative bioimaging. <i>Biomedical Optics Express</i> , 2017, 8, 5688.	1.5	71
56	Random and V-groove texturing for efficient light trapping in organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 115, 36-41.	3.0	70
57	Optical diffraction tomography techniques for the study of cell pathophysiology. <i>Journal of Biomedical Photonics and Engineering</i> , 0, , 020201-1-020201-16.	0.4	69
58	Fresnel particle tracing in three dimensions using diffraction phase microscopy. <i>Optics Letters</i> , 2007, 32, 811.	1.7	68
59	Hyperspectral optical diffraction tomography. <i>Optics Express</i> , 2016, 24, 2006.	1.7	68
60	Label-free optical quantification of structural alterations in Alzheimer's disease. <i>Scientific Reports</i> , 2016, 6, 31034.	1.6	67
61	Label-free identification of individual bacteria using Fourier transform light scattering. <i>Optics Express</i> , 2015, 23, 15792.	1.7	66
62	Label-free non-invasive quantitative measurement of lipid contents in individual microalgal cells using refractive index tomography. <i>Scientific Reports</i> , 2018, 8, 6524.	1.6	66
63	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> , 2018, 8, 9183.	1.6	64
64	Label-Free Tomographic Imaging of Lipid Droplets in Foam Cells for Machine-Learning-Assisted Therapeutic Evaluation of Targeted Nanodrugs. <i>ACS Nano</i> , 2020, 14, 1856-1865.	7.3	64
65	Imaging voltage-dependent cell motions with heterodyne Mach-Zehnder phase microscopy. <i>Optics Letters</i> , 2007, 32, 1572.	1.7	63
66	Coherence properties of red blood cell membrane motions. <i>Physical Review E</i> , 2007, 76, 031902.	0.8	62
67	Pf155/RESA protein influences the dynamic microcirculatory behavior of ring-stage <i>Plasmodium falciparum</i> infected red blood cells. <i>Scientific Reports</i> , 2012, 2, 614.	1.6	61
68	Microrheology of red blood cell membranes using dynamic scattering microscopy. <i>Optics Express</i> , 2007, 15, 17001.	1.7	60
69	Perspective: Wavefront shaping techniques for controlling multiple light scattering in biological tissues: Toward <i>in vivo</i> applications. <i>APL Photonics</i> , 2018, 3, .	3.0	58
70	Learning-based screening of hematologic disorders using quantitative phase imaging of individual red blood cells. <i>Biosensors and Bioelectronics</i> , 2019, 123, 69-76.	5.3	58
71	White-light quantitative phase imaging unit. <i>Optics Express</i> , 2016, 24, 9308.	1.7	54
72	Label-Free Imaging of Membrane Potential Using Membrane Electromotility. <i>Biophysical Journal</i> , 2012, 103, 11-18.	0.2	53

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73	Cycle-consistent deep learning approach to coherent noise reduction in optical diffraction tomography. <i>Optics Express</i> , 2019, 27, 4927.	1.7	53
74	Non-resonant power-efficient directional Nd:YAG ceramic laser using a scattering cavity. <i>Nature Communications</i> , 2021, 12, 8.	5.8	52
75	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> , 2018, 35, 1891.	0.8	51
76	Simple super-resolution live-cell imaging based on diffusion-assisted FÅrster resonance energy transfer. <i>Scientific Reports</i> , 2013, 3, 1208.	1.6	50
77	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> , 2014, 18, 691-697.	0.6	50
78	Spectro-refractometry of Individual Microscopic Objects Using Swept-Source Quantitative Phase Imaging. <i>Analytical Chemistry</i> , 2013, 85, 10519-10525.	3.2	49
79	Ultrahigh enhancement of light focusing through disordered media controlled by mega-pixel modes. <i>Optics Express</i> , 2017, 25, 8036.	1.7	49
80	Biomedical applications of holographic microspectroscopy [Invited]. <i>Applied Optics</i> , 2014, 53, G111.	0.9	48
81	Tomographic active optical trapping of arbitrarily shaped objects by exploiting 3D refractive index maps. <i>Nature Communications</i> , 2017, 8, 15340.	5.8	47
82	Label-free multiplexed microtomography of endogenous subcellular dynamics using generalizable deep learning. <i>Nature Cell Biology</i> , 2021, 23, 1329-1337.	4.6	47
83	Depth-enhanced 2-D optical coherence tomography using complex wavefront shaping. <i>Optics Express</i> , 2014, 22, 7514.	1.7	46
84	Optical diffraction tomography using a digital micromirror device for stable measurements of 4D refractive index tomography of cells. <i>Proceedings of SPIE</i> , 2016, , .	0.8	46
85	Synthetic Fourier transform light scattering. <i>Optics Express</i> , 2013, 21, 22453.	1.7	45
86	Angle-resolved light scattering of individual rod-shaped bacteria based on Fourier transform light scattering. <i>Scientific Reports</i> , 2014, 4, 5090.	1.6	45
87	Deep-learning-based three-dimensional label-free tracking and analysis of immunological synapses of CAR-T cells. <i>ELife</i> , 2020, 9, .	2.8	45
88	Light scattering of human red blood cells during metabolic remodeling of the membrane. <i>Journal of Biomedical Optics</i> , 2011, 16, 011013.	1.4	44
89	Anisotropic light scattering of individual sickle red blood cells. <i>Journal of Biomedical Optics</i> , 2012, 17, 040501.	1.4	43
90	The Effects of Ethanol on the Morphological and Biochemical Properties of Individual Human Red Blood Cells. <i>PLoS ONE</i> , 2015, 10, e0145327.	1.1	43

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91	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> , 2015, 20, 111208.	1.4	43
92	Effects of spatiotemporal coherence on interferometric microscopy. <i>Optics Express</i> , 2017, 25, 8085.	1.7	41
93	Improved phase sensitivity in spectral domain phase microscopy using line-field illumination and self phase-referencing. <i>Optics Express</i> , 2009, 17, 10681.	1.7	40
94	Superresolution imaging with optical fluctuation using speckle patterns illumination. <i>Scientific Reports</i> , 2015, 5, 16525.	1.6	40
95	Crosstalk Between PKA and Epac Regulates the Phenotypic Maturation and Function of Human Dendritic Cells. <i>Journal of Immunology</i> , 2010, 185, 3227-3238.	0.4	39
96	Optogenetic control of cell signaling pathway through scattering skull using wavefront shaping. <i>Scientific Reports</i> , 2015, 5, 13289.	1.6	39
97	Label-free high-resolution 3-D imaging of gold nanoparticles inside live cells using optical diffraction tomography. <i>Methods</i> , 2018, 136, 160-167.	1.9	38
98	Deep-Learning-Based Label-Free Segmentation of Cell Nuclei in Time-Lapse Refractive Index Tomograms. <i>IEEE Access</i> , 2019, 7, 83449-83460.	2.6	38
99	Melittin-induced alterations in morphology and deformability of human red blood cells using quantitative phase imaging techniques. <i>Scientific Reports</i> , 2017, 7, 9306.	1.6	37
100	Three-dimensional label-free observation of individual bacteria upon antibiotic treatment using optical diffraction tomography. <i>Biomedical Optics Express</i> , 2020, 11, 1257.	1.5	37
101	Roadmap on Digital Holography-Based Quantitative Phase Imaging. <i>Journal of Imaging</i> , 2021, 7, 252.	1.7	37
102	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> , 2016, 113, 9527-9532.	3.3	36
103	Measurements of three-dimensional refractive index tomography and membrane deformability of live erythrocytes from <i>Pelophylax nigromaculatus</i> . <i>Scientific Reports</i> , 2018, 8, 9192.	1.6	36
104	LCD panel characterization by measuring full Jones matrix of individual pixels using polarization-sensitive digital holographic microscopy. <i>Optics Express</i> , 2014, 22, 24304.	1.7	35
105	One-Wave Optical Phase Conjugation Mirror by Actively Coupling Arbitrary Light Fields into a Single-Mode Reflector. <i>Physical Review Letters</i> , 2015, 115, 153902.	2.9	35
106	Fourier transform light scattering angular spectroscopy using digital inline holography. <i>Optics Letters</i> , 2012, 37, 4161.	1.7	34
107	Holographic intravital microscopy for 2-D and 3-D imaging intact circulating blood cells in microcapillaries of live mice. <i>Scientific Reports</i> , 2016, 6, 33084.	1.6	32
108	Multiscale label-free volumetric holographic histopathology of thick-tissue slides with subcellular resolution. <i>Advanced Photonics</i> , 2021, 3, .	6.2	31

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109	Optical characterization of red blood cells from individuals with sickle cell trait and disease in Tanzania using quantitative phase imaging. <i>Scientific Reports</i> , 2016, 6, 31698.	1.6	30
110	Measurement Techniques for Red Blood Cell Deformability: Recent Advances. , 2012, , .		29
111	Focusing through turbid media by polarization modulation. <i>Optics Letters</i> , 2015, 40, 1667.	1.7	29
112	Inverse problem solver for multiple light scattering using modified Born series. <i>Optica</i> , 2022, 9, 177.	4.8	29
113	Tomographic measurement of dielectric tensors at optical frequency. <i>Nature Materials</i> , 2022, 21, 317-324.	13.3	29
114	Large-scale optical diffraction tomography for inspection of optical plastic lenses. <i>Optics Letters</i> , 2016, 41, 934.	1.7	28
115	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> , 2017, 34, 1392.	0.8	28
116	Isotropically resolved label-free tomographic imaging based on tomographic moulds for optical trapping. <i>Light: Science and Applications</i> , 2021, 10, 102.	7.7	28
117	T cells sense biophysical cues using lamellipodia and filopodia to optimize intraluminal path finding. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 450.	0.6	27
118	Three-dimensional label-free imaging and analysis of Pinus pollen grains using optical diffraction tomography. <i>Scientific Reports</i> , 2018, 8, 1782.	1.6	27
119	Optimizing illumination in three-dimensional deconvolution microscopy for accurate refractive index tomography. <i>Optics Express</i> , 2021, 29, 6293.	1.7	27
120	Label-Free White Blood Cell Classification Using Refractive Index Tomography and Deep Learning. <i>BME Frontiers</i> , 2021, 2021, .	2.2	27
121	Reference-free polarization-sensitive quantitative phase imaging using single-point optical phase conjugation. <i>Optics Express</i> , 2018, 26, 26858.	1.7	27
122	Roadmap on chaos-inspired imaging technologies (CI2-Tech). <i>Applied Physics B: Lasers and Optics</i> , 2022, 128, 1.	1.1	27
123	A Bacteria-Based Remotely Tunable Photonic Device. <i>Advanced Optical Materials</i> , 2017, 5, 1600617.	3.6	26
124	Rapid species identification of pathogenic bacteria from a minute quantity exploiting three-dimensional quantitative phase imaging and artificial neural network. <i>Light: Science and Applications</i> , 2022, 11, .	7.7	26
125	Ultraviolet refractometry using field-based light scattering spectroscopy. <i>Optics Express</i> , 2009, 17, 18878.	1.7	25
126	Beyond Born-Rytov limit for super-resolution optical diffraction tomography. <i>Optics Express</i> , 2017, 25, 30445.	1.7	25

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127	Compensation of aberration in quantitative phase imaging using lateral shifting and spiral phase integration. <i>Optics Express</i> , 2017, 25, 30771.	1.7	25
128	Disordered Optics: Exploiting Multiple Light Scattering and Wavefront Shaping for Nonconventional Optical Elements. <i>Advanced Materials</i> , 2020, 32, e1903457.	11.1	25
129	Fourier-transform light scattering of individual colloidal clusters. <i>Optics Letters</i> , 2012, 37, 2577.	1.7	24
130	Reference-Free Single-Point Holographic Imaging and Realization of an Optical Bidirectional Transducer. <i>Physical Review Applied</i> , 2018, 9, .	1.5	24
131	Holotomography: Refractive Index as an Intrinsic Imaging Contrast for 3-D Label-Free Live Cell Imaging. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1310, 211-238.	0.8	23
132	Spectro-angular light scattering measurements of individual microscopic objects. <i>Optics Express</i> , 2014, 22, 4108.	1.7	21
133	Measuring large optical reflection matrices of turbid media. <i>Optics Communications</i> , 2015, 352, 33-38.	1.0	21
134	<i>In vivo</i> deep tissue imaging using wavefront shaping optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2016, 21, 101406.	1.4	21
135	Mitotic Chromosomes in Live Cells Characterized Using High-Speed and Label-Free Optical Diffraction Tomography. <i>Cells</i> , 2019, 8, 1368.	1.8	20
136	Imaging through scattering media using digital holography. <i>Optics Communications</i> , 2019, 439, 218-223.	1.0	19
137	High-Resolution Holographic Microscopy Exploiting Speckle-Correlation Scattering Matrix. <i>Physical Review Applied</i> , 2018, 10, .	1.5	18
138	Single-shot wide-field topography measurement using spectrally multiplexed reflection intensity holography via space-domain Kramers-Kronig relations. <i>Optics Letters</i> , 2022, 47, 1025.	1.7	18
139	Combining Three-Dimensional Quantitative Phase Imaging and Fluorescence Microscopy for the Study of Cell Pathophysiology. <i>Yale Journal of Biology and Medicine</i> , 2018, 91, 267-277.	0.2	17
140	DeepRegularizer: Rapid Resolution Enhancement of Tomographic Imaging Using Deep Learning. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 1508-1518.	5.4	16
141	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> , 2021, 118, .	3.3	16
142	Low-coherence optical diffraction tomography using a ferroelectric liquid crystal spatial light modulator. <i>Optics Express</i> , 2020, 28, 39649.	1.7	16
143	Scattering Optical Elements: Stand-Alone Optical Elements Exploiting Multiple Light Scattering. <i>ACS Nano</i> , 2016, 10, 6871-6876.	7.3	15
144	Deep learning-based optical field screening for robust optical diffraction tomography. <i>Scientific Reports</i> , 2019, 9, 15239.	1.6	15

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145	Label-free three-dimensional observations and quantitative characterisation of on-chip vasculogenesis using optical diffraction tomography. <i>Lab on A Chip</i> , 2021, 21, 494-501.	3.1	15
146	Calibration-free quantitative phase imaging using data-driven aberration modeling. <i>Optics Express</i> , 2020, 28, 34835.	1.7	15
147	Reconstructions of refractive index tomograms via a discrete algebraic reconstruction technique. <i>Optics Express</i> , 2017, 25, 27415.	1.7	14
148	Missing Cone Artifact Removal in ODT Using Unsupervised Deep Learning in the Projection Domain. <i>IEEE Transactions on Computational Imaging</i> , 2021, 7, 747-758.	2.6	14
149	Single-molecule functional anatomy of endogenous HER2-HER3 heterodimers. <i>ELife</i> , 2020, 9, .	2.8	14
150	Remote sensing of pressure inside deformable microchannels using light scattering in Scotch tape. <i>Optics Letters</i> , 2016, 41, 1837.	1.7	13
151	Significantly different expression levels of microRNAs associated with vascular invasion in hepatocellular carcinoma and their prognostic significance after surgical resection. <i>PLoS ONE</i> , 2019, 14, e0216847.	1.1	13
152	Effects of osmolality and solutes on the morphology of red blood cells according to three-dimensional refractive index tomography. <i>PLoS ONE</i> , 2021, 16, e0262106.	1.1	13
153	Element stacking method for topology optimization with material-dependent boundary and loading conditions. <i>Journal of Mechanics of Materials and Structures</i> , 2007, 2, 883-895.	0.4	12
154	Optical Measurements of Three-Dimensional Microscopic Temperature Distributions Around Gold Nanorods Excited by Localized Surface Plasmon Resonance. <i>Physical Review Applied</i> , 2019, 11, .	1.5	12
155	Low-coherent optical diffraction tomography by angle-scanning illumination. <i>Journal of Biophotonics</i> , 2019, 12, e201800289.	1.1	12
156	Measurements of morphology and refractive indexes on human downy hairs using three-dimensional quantitative phase imaging. <i>Journal of Biomedical Optics</i> , 2015, 20, 111207.	1.4	11
157	Universal sensitivity of speckle intensity correlations to wavefront change in light diffusers. <i>Scientific Reports</i> , 2017, 7, 44435.	1.6	11
158	Computational approach to dark-field optical diffraction tomography. <i>APL Photonics</i> , 2020, 5, 040804.	3.0	11
159	Interactions of Nanoparticles with Macrophages and Feasibility of Drug Delivery for Asthma. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1622.	1.8	11
160	Measurements of complex refractive index change of photoactive yellow protein over a wide wavelength range using hyperspectral quantitative phase imaging. <i>Scientific Reports</i> , 2018, 8, 3064.	1.6	10
161	Measurements of polarization-dependent angle-resolved light scattering from individual microscopic samples using Fourier transform light scattering. <i>Optics Express</i> , 2018, 26, 7701.	1.7	10
162	Speckle-Correlation Scattering Matrix Approaches for Imaging and Sensing through Turbidity. <i>Sensors</i> , 2020, 20, 3147.	2.1	10

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163	Study of Optical Configurations for Multiple Enhancement of Microalgal Biomass Production. Scientific Reports, 2019, 9, 1723.	1.6	9
164	Detection of intracellular monosodium urate crystals in gout synovial fluid using optical diffraction tomography. Scientific Reports, 2021, 11, 10019.	1.6	9
165	Three-dimensional label-free imaging and quantification of migrating cells during wound healing. Biomedical Optics Express, 2020, 11, 6812.	1.5	9
166	Common-path diffraction optical tomography with a low-coherence illumination for reducing speckle noise. , 2015, , .		8
167	Collaborative effects of wavefront shaping and optical clearing agent in optical coherence tomography. Journal of Biomedical Optics, 2016, 21, 121510.	1.4	8
168	Generalized image deconvolution by exploiting the transmission matrix of an optical imaging system. Scientific Reports, 2017, 7, 8961.	1.6	8
169	Methods in quantitative phase imaging in life science. Methods, 2018, 136, 1-3.	1.9	8
170	Label-Free Identification of Lymphocyte Subtypes Using Three-Dimensional Quantitative Phase Imaging and Machine Learning. Journal of Visualized Experiments, 2018, , .	0.2	8
171	Interpreting Intensity Speckle as the Coherency Matrix of Classical Light. Physical Review Applied, 2019, 12, .	1.5	8
172	Label-Free Quantitative Analysis of Coacervates via 3D Phase Imaging. Advanced Optical Materials, 2021, 9, 2100697.	3.6	8
173	Optical Sensing of Red Blood Cell Dynamics. , 2011, , 279-309.		7
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