

# Kyeo-Reh Lee

## List of Publications by Year in descending order

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54  
papers

2,496  
citations

257450

24  
h-index

233421

45  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1819  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Phase Imaging Techniques for the Study of Cell Pathophysiology: From Principles to Applications. <i>Sensors</i> , 2013, 13, 4170-4191.	3.8	436
2	Comparative study of iterative reconstruction algorithms for missing cone problems in optical diffraction tomography. <i>Optics Express</i> , 2015, 23, 16933.	3.4	226
3	Recent advances in wavefront shaping techniques for biomedical applications. <i>Current Applied Physics</i> , 2015, 15, 632-641.	2.4	194
4	Ultrahigh-definition dynamic 3D holographic display by active control of volume speckle fields. <i>Nature Photonics</i> , 2017, 11, 186-192.	31.4	148
5	Time-multiplexed structured illumination using a DMD for optical diffraction tomography. <i>Optics Letters</i> , 2017, 42, 999.	3.3	116
6	Measuring optical transmission matrices by wavefront shaping. <i>Optics Express</i> , 2015, 23, 10158.	3.4	112
7	Quantitative phase imaging unit. <i>Optics Letters</i> , 2014, 39, 3630.	3.3	102
8	Ultrathin wide-angle large-area digital 3D holographic display using a non-periodic photon sieve. <i>Nature Communications</i> , 2019, 10, 1304.	12.8	89
9	Exploiting the speckle-correlation scattering matrix for a compact reference-free holographic image sensor. <i>Nature Communications</i> , 2016, 7, 13359.	12.8	88
10	Diffraction optical tomography using a quantitative phase imaging unit. <i>Optics Letters</i> , 2014, 39, 6935.	3.3	80
11	Kramers-Kronig holographic imaging for high-space-bandwidth product. <i>Optica</i> , 2019, 6, 45.	9.3	75
12	Perspective: Wavefront shaping techniques for controlling multiple light scattering in biological tissues: Toward <i>in vivo</i> applications. <i>APL Photonics</i> , 2018, 3, .	5.7	58
13	White-light quantitative phase imaging unit. <i>Optics Express</i> , 2016, 24, 9308.	3.4	54
14	Non-resonant power-efficient directional Nd:YAG ceramic laser using a scattering cavity. <i>Nature Communications</i> , 2021, 12, 8.	12.8	52
15	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
16	Ultrahigh enhancement of light focusing through disordered media controlled by mega-pixel modes. <i>Optics Express</i> , 2017, 25, 8036.	3.4	49
17	Biomedical applications of holographic microspectroscopy [Invited]. <i>Applied Optics</i> , 2014, 53, G111.	1.8	48
18	Synthetic Fourier transform light scattering. <i>Optics Express</i> , 2013, 21, 22453.	3.4	45

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19	Effects of spatiotemporal coherence on interferometric microscopy. <i>Optics Express</i> , 2017, 25, 8085.	3.4	41
20	Optogenetic control of cell signaling pathway through scattering skull using wavefront shaping. <i>Scientific Reports</i> , 2015, 5, 13289.	3.3	39
21	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.	7.8	35
22	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.	3.3	30
23	Reference-free polarization-sensitive quantitative phase imaging using single-point optical phase conjugation. <i>Optics Express</i> , 2018, 26, 26858.	3.4	27
24	Roadmap on chaos-inspired imaging technologies (CI2-Tech). <i>Applied Physics B: Lasers and Optics</i> , 2022, 128, 1.	2.2	27
25	Beyond Born-Rytov limit for super-resolution optical diffraction tomography. <i>Optics Express</i> , 2017, 25, 30445.	3.4	25
26	Compensation of aberration in quantitative phase imaging using lateral shifting and spiral phase integration. <i>Optics Express</i> , 2017, 25, 30771.	3.4	25
27	Disordered Optics: Exploiting Multiple Light Scattering and Wavefront Shaping for Nonconventional Optical Elements. <i>Advanced Materials</i> , 2020, 32, e1903457.	21.0	25
28	Reference-Free Single-Point Holographic Imaging and Realization of an Optical Bidirectional Transducer. <i>Physical Review Applied</i> , 2018, 9, .	3.8	24
29	<i>In vivo</i> deep tissue imaging using wavefront shaping optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2016, 21, 101406.	2.6	21
30	High-Resolution Holographic Microscopy Exploiting Speckle-Correlation Scattering Matrix. <i>Physical Review Applied</i> , 2018, 10, .	3.8	18
31	Low-coherence optical diffraction tomography using a ferroelectric liquid crystal spatial light modulator. <i>Optics Express</i> , 2020, 28, 39649.	3.4	16
32	Scattering Optical Elements: Stand-Alone Optical Elements Exploiting Multiple Light Scattering. <i>ACS Nano</i> , 2016, 10, 6871-6876.	14.6	15
33	Low-coherent optical diffraction tomography by angle-scanning illumination. <i>Journal of Biophotonics</i> , 2019, 12, e201800289.	2.3	12
34	Universal sensitivity of speckle intensity correlations to wavefront change in light diffusers. <i>Scientific Reports</i> , 2017, 7, 44435.	3.3	11
35	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.	3.3	10
36	Speckle-Correlation Scattering Matrix Approaches for Imaging and Sensing through Turbidity. <i>Sensors</i> , 2020, 20, 3147.	3.8	10

#	ARTICLE	IF	CITATIONS
37	Common-path diffraction optical tomography with a low-coherence illumination for reducing speckle noise. , 2015, , .		8
38	Collaborative effects of wavefront shaping and optical clearing agent in optical coherence tomography. Journal of Biomedical Optics, 2016, 21, 121510.	2.6	8
39	Generalized image deconvolution by exploiting the transmission matrix of an optical imaging system. Scientific Reports, 2017, 7, 8961.	3.3	8
40	Interpreting Intensity Speckle as the Coherency Matrix of Classical Light. Physical Review Applied, 2019, 12, .	3.8	8
41	Time-reversing a monochromatic subwavelength optical focus by optical phase conjugation of multiply-scattered light. Scientific Reports, 2017, 7, 41384.	3.3	7
42	Single-shot Reference-free Holographic Imaging using a Liquid Crystal Geometric Phase Diffuser. Laser and Photonics Reviews, 2022, 16, .	8.7	7
43	Enhancing sensitivity in absorption spectroscopy using a scattering cavity. Scientific Reports, 2021, 11, 14916.	3.3	6
44	[Invited Paper] Review: 3D Holographic Imaging and Display Exploiting Complex Optics. ITE Transactions on Media Technology and Applications, 2017, 5, 78-87.	0.5	5
45	Energy leakage in partially measured scattering matrices of disordered media. Physical Review B, 2016, 93, .	3.2	3
46	Digital 3D holographic display using scattering layers for enhanced viewing angle and image size. , 2017, , .		0
47	Optical field imaging with a single photodiode exploiting optical phase conjugation. , 2017, , .		0
48	Holographic Display with an Enhanced Viewing Angle by using a Non-Periodic Photon Sieve. , 2018, , .		0
49	Synthetic Fourier Transform Light Scattering. , 2013, , .		0
50	In vivo mouse tissue imaging by depth-enhanced optical coherence tomography using complex wavefront shaping. , 2015, , .		0
51	Optogenetic regulation of cellular functions through an intact skull using wavefront shaping. , 2015, , .		0
52	White Light Quantitative Phase Imaging Unit. , 2017, , .		0
53	Characterizations of Erythrocytes from Individuals with Sickle Cell Diseases and Malaria Infection in Tanzania Using a Portable Quantitative Phase Imaging Unit. , 2017, , .		0
54	Dynamic 3D holographic display with enhanced viewing angle by using a nonperiodic pinhole array. , 2018, , .		0