Kyeoreh Lee

List of Publications by Year
in descending order

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52 papers	2,437 citations	257450 24 h-index	254184 43 g-index
53 all docs	53 docs citations	53 times ranked	1741 citing authors

#	Article	IF	Citations
1	Quantitative Phase Imaging Techniques for the Study of Cell Pathophysiology: From Principles to Applications. Sensors, 2013, 13, 4170-4191.	3.8	436
2	Comparative study of iterative reconstruction algorithms for missing cone problems in optical diffraction tomography. Optics Express, 2015, 23, 16933.	3.4	226
3	Recent advances in wavefront shaping techniques for biomedical applications. Current Applied Physics, 2015, 15, 632-641.	2.4	194
4	Ultrahigh-definition dynamic 3D holographic display by active control of volume speckle fields. Nature Photonics, 2017, 11, 186-192.	31.4	148
5	Time-multiplexed structured illumination using a DMD for optical diffraction tomography. Optics Letters, 2017, 42, 999.	3.3	116
6	Measuring optical transmission matrices by wavefront shaping. Optics Express, 2015, 23, 10158.	3.4	112
7	Quantitative phase imaging unit. Optics Letters, 2014, 39, 3630.	3.3	102
8	Ultrathin wide-angle large-area digital 3D holographic display using a non-periodic photon sieve. Nature Communications, 2019, 10, 1304.	12.8	89
9	Exploiting the speckle-correlation scattering matrix for a compact reference-free holographic image sensor. Nature Communications, 2016, 7, 13359.	12.8	88
10	Diffraction optical tomography using a quantitative phase imaging unit. Optics Letters, 2014, 39, 6935.	3.3	80
11	Kramersâ€“Kronig holographic imaging for high-space-bandwidth product. Optica, 2019, 6, 45.	9.3	75
12	Perspective: Wavefront shaping techniques for controlling multiple light scattering in biological tissues: Toward in vivo applications. APL Photonics, 2018, 3, .	5.7	58
13	White-light quantitative phase imaging unit. Optics Express, 2016, 24, 9308.	3.4	54
14	High-Resolution 3-D Refractive Index Tomography and 2-D Synthetic Aperture Imaging of Live Phytoplankton. Journal of the Optical Society of Korea, 2014, 18, 691-697.	0.6	50
15	Ultrahigh enhancement of light focusing through disordered media controlled by mega-pixel modes. Optics Express, 2017, 25, 8036.	3.4	49
16	Biomedical applications of holographic microspectroscopy [Invited]. Applied Optics, 2014, 53, G111.	1.8	48
17	Synthetic Fourier transform light scattering. Optics Express, 2013, 21, 22453.	3.4	45
18	Effects of spatiotemporal coherence on interferometric microscopy. Optics Express, 2017, 25, 8085.	3.4	41

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19	Optogenetic control of cell signaling pathway through scattering skull using wavefront shaping. Scientific Reports, 2015, 5, 13289.	3.3	39
20	One-Wave Optical Phase Conjugation Mirror by Actively Coupling Arbitrary Light Fields into a Single-Mode Reflector. Physical Review Letters, 2015, 115, 153902.	7.8	35
21	Optical characterization of red blood cells from individuals with sickle cell trait and disease in Tanzania using quantitative phase imaging. Scientific Reports, 2016, 6, 31698.	3.3	30
22	Reference-free polarization-sensitive quantitative phase imaging using single-point optical phase conjugation. Optics Express, 2018, 26, 26858.	3.4	27
23	Roadmap on chaos-inspired imaging technologies (CI2-Tech). Applied Physics B: Lasers and Optics, 2022, 128, 1.	2.2	27
24	Beyond Born-Rytov limit for super-resolution optical diffraction tomography. Optics Express, 2017, 25, 30445.	3.4	25
25	Compensation of aberration in quantitative phase imaging using lateral shifting and spiral phase integration. Optics Express, 2017, 25, 30771.	3.4	25
26	Disordered Optics: Exploiting Multiple Light Scattering and Wavefront Shaping for Nonconventional Optical Elements. Advanced Materials, 2020, 32, e1903457.	21.0	25
27	Reference-Free Single-Point Holographic Imaging and Realization of an Optical Bidirectional Transducer. Physical Review Applied, 2018, 9, .	3.8	24
28	In vivodeep tissue imaging using wavefront shaping optical coherence tomography. Journal of Biomedical Optics, 2016, 21, 101406.	2.6	21
29	High-Resolution Holographic Microscopy Exploiting Speckle-Correlation Scattering Matrix. Physical Review Applied, 2018, 10, .	3.8	18
30	Low-coherence optical diffraction tomography using a ferroelectric liquid crystal spatial light modulator. Optics Express, 2020, 28, 39649.	3.4	16
31	Scattering Optical Elements: Stand-Alone Optical Elements Exploiting Multiple Light Scattering. ACS Nano, 2016, 10, 6871-6876.	14.6	15
32	Lowâ€coherent optical diffraction tomography by angleâ€scanning illumination. Journal of Biophotonics, 2019, 12, e201800289.	2.3	12
33	Universal sensitivity of speckle intensity correlations to wavefront change in light diffusers. Scientific Reports, 2017, 7, 44435.	3.3	11
34	Measurements of complex refractive index change of photoactive yellow protein over a wide wavelength range using hyperspectral quantitative phase imaging. Scientific Reports, 2018, 8, 3064.	3.3	10
35	Speckle-Correlation Scattering Matrix Approaches for Imaging and Sensing through Turbidity. Sensors, 2020, 20, 3147.	3.8	10
36	Common-path diffraction optical tomography with a low-coherence illumination for reducing speckle noise. , 2015, , .		8

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37	Collaborative effects of wavefront shaping and optical clearing agent in optical coherence tomography. Journal of Biomedical Optics, 2016, 21, 121510.	2.6	8
38	Generalized image deconvolution by exploiting the transmission matrix of an optical imaging system. Scientific Reports, 2017, 7, 8961.	3.3	8
39	Interpreting Intensity Speckle as the Coherency Matrix of Classical Light. Physical Review Applied, 2019, 12, .	3.8	8
40	Time-reversing a monochromatic subwavelength optical focus by optical phase conjugation of multiply-scattered light. Scientific Reports, 2017, 7, 41384.	3.3	7
41	Singleâ€Shot Referenceâ€Free Holographic Imaging using a Liquid Crystal Geometric Phase Diffuser. Laser and Photonics Reviews, 2022, 16, .	8.7	7
42	[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
43	Energy leakage in partially measured scattering matrices of disordered media. Physical Review B, 2016, 93, .	3.2	3
44	Digital 3D holographic display using scattering layers for enhanced viewing angle and image size. , 2017, , .		0
45	Optical field imaging with a single photodiode exploiting optical phase conjugation. , 2017, , .		0
46	Holographic Display with an Enhanced Viewing Angle by using a Non-Periodic Photon Sieve. , 2018, , .		0
47	Synthetic Fourier Transform Light Scattering. , 2013, , .		0
48	In vivo mouse tissue imaging by depth-enhanced optical coherence tomography using complex wavefront shaping. , 2015, , .		0
49	Optogenetic regulation of cellular functions through an intact skull using wavefront shaping. , 2015, , .		0
50	White Light Quantitative Phase Imaging Unit. , 2017, , .		0
51	Characterizations of Erythrocytes from Individuals with Sickle Cell Diseases and Malaria Infection in Tanzania Using a Portable Quantitative Phase Imaging Unit. , 2017, , .		0
52	Dynamic 3D holographic display with enhanced viewing angle by using a nonperiodic pinhole array. , 2018, , .		0