Sangyun Lee

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6937350/publications.pdf

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27	1,230	567281 15	610901 24
papers	citations	h-index	g-index

36	36	36	1299
all docs	docs citations	times ranked	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	Identification of non-activated lymphocytes using three-dimensional refractive index tomography and machine learning. Scientific Reports, 2017, 7, 6654.	3.3	105
3	Refractive index tomograms and dynamic membrane fluctuations of red blood cells from patients with diabetes mellitus. Scientific Reports, 2017, 7, 1039.	3.3	77
4	Measuring cell surface area and deformability of individual human red blood cells over blood storage using quantitative phase imaging. Scientific Reports, 2016, 6, 34257.	3.3	74
5	Label-free non-invasive quantitative measurement of lipid contents in individual microalgal cells using refractive index tomography. Scientific Reports, 2018, 8, 6524.	3.3	66
6	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
7	Three-dimensional refractive index tomograms and deformability of individual human red blood cells from cord blood of newborn infants and maternal blood. Journal of Biomedical Optics, 2015, 20, 111208.	2.6	43
8	Effects of spatiotemporal coherence on interferometric microscopy. Optics Express, 2017, 25, 8085.	3.4	41
9	Label-free high-resolution 3-D imaging of gold nanoparticles inside live cells using optical diffraction tomography. Methods, 2018, 136, 160-167.	3.8	38
10	Melittin-induced alterations in morphology and deformability of human red blood cells using quantitative phase imaging techniques. Scientific Reports, 2017, 7, 9306.	3.3	37
11	Measurements of three-dimensional refractive index tomography and membrane deformability of live erythrocytes from Pelophylax nigromaculatus. Scientific Reports, 2018, 8, 9192.	3.3	36
12	Three-dimensional label-free imaging and analysis of Pinus pollen grains using optical diffraction tomography. Scientific Reports, 2018, 8, 1782.	3.3	27
13	Learning Entropy Production via Neural Networks. Physical Review Letters, 2020, 125, 140604.	7.8	24
14	Finite-time quantum Otto engine: Surpassing the quasistatic efficiency due to friction. Physical Review E, 2020, 101, 022127.	2.1	23
15	Holotomography: Refractive Index as an Intrinsic Imaging Contrast for 3-D Label-Free Live Cell Imaging. Advances in Experimental Medicine and Biology, 2021, 1310, 211-238.	1.6	23
16	Combining Three-Dimensional Quantitative Phase Imaging and Fluorescence Microscopy for the Study of Cell Pathophysiology. Yale Journal of Biology and Medicine, 2018, 91, 267-277.	0.2	17
17	Quantumness and thermodynamic uncertainty relation of the finite-time Otto cycle. Physical Review E, 2021, 103, 022136.	2.1	14
18	Inertial effects on the Brownian gyrator. Physical Review E, 2021, 103, 032148.	2.1	14

#	Article	IF	Citations
19	Measurements of morphology and refractive indexes on human downy hairs using three-dimensional quantitative phase imaging. Journal of Biomedical Optics, 2015, 20, 111207.	2.6	11
20	Quantum mechanical bound for efficiency of quantum Otto heat engine. Physical Review E, 2019, 100, 012148.	2.1	11
21	Generalized image deconvolution by exploiting the transmission matrix of an optical imaging system. Scientific Reports, 2017, 7, 8961.	3.3	8
22	Nonequilibrium driven by an external torque in the presence of a magnetic field. Physical Review E, 2019, 99, 052142.	2.1	8
23	Estimating entropy production with odd-parity state variables via machine learning. Physical Review Research, 2022, 4, .	3.6	5
24	Three-Dimensional Shapes and Cell Deformability of Rat Red Blood Cells during and after Asphyxial Cardiac Arrest. Emergency Medicine International, 2019, 2019, 1-10.	0.8	2
25	Three-Dimensional Label-Free Characterization of Frog Erythrocytes using Optical Diffraction Tomography. , 2018, , .		0
26	3-D quantitative measurements of individual human red blood cells from diabetic patients employing 3-D quantitative phase imaging. , 2016, , .		0
27	Optical measurements of stored human red blood cells with and without CPDA-1. , 2016, , .		0