Zachary A Steelman

List of Publications by Year
in descending order

23 papers	472 citations	759233 12 h-index	713466 21 g-index
24 all docs	24 docs citations	24 times ranked	613 citing authors

#	Article	IF	Citations
1	Dual Raman-Brillouin Microscope for Chemical and Mechanical Characterization and Imaging. Analytical Chemistry, 2015, 87, 7519-7523.	6.5	106
2	Optical Phase Measurements of Disorder Strength Link Microstructure to Cell Stiffness. Biophysical Journal, 2017, 112, 692-702.	0.5	57
3	Is the nuclear refractive index lower than cytoplasm? Validation of phase measurements and implications for light scattering technologies. Journal of Biophotonics, 2017, 10, 1714-1722.	2.3	52
4	Light-scattering methods for tissue diagnosis. Optica, 2019, 6, 479.	9.3	41
5	Brillouin spectroscopy as a new method of screening for increased CSF total protein during bacterial meningitis. Journal of Biophotonics, 2015, 8, 408-414.	2.3	37
6	Cellular response to high pulse repetition rate nanosecond pulses varies with fluorescent marker identity. Biochemical and Biophysical Research Communications, 2016, 478, 1261-1267.	2.1	32
7	Shear Modulus Measurement by Quantitative Phase Imaging and Correlation with Atomic Force Microscopy. Biophysical Journal, 2019, 117, 696-705.	0.5	22
8	nsPEF-induced PIP2 depletion, PLC activity and actin cytoskeletal cortex remodeling are responsible for post-exposure cellular swelling and blebbing. Biochemistry and Biophysics Reports, 2017, 9, 36-41.	1.3	20
9	Revealing the glass transition in shape memory polymers using Brillouin spectroscopy. Applied Physics Letters, 2017, 111, 241904.	3.3	17
10	Multimodal Coherent Imaging of Retinal Biomarkers of Alzheimerâ€™s Disease in a Mouse Model. Scientific Reports, 2020, 10, 7912.	3.3	16
11	Response to Comment on â€œIs the nuclear refractive index lower than cytoplasm? Validation of phase measurements and implications for light scattering technologiesâ€• Journal of Biophotonics, 2018, 11, e201800091.	2.3	12
12	Comparison of imaging fiber bundles for coherence-domain imaging. Applied Optics, 2018, 57, 1455.	1.8	12
13	Scanning system for angle-resolved low-coherence interferometry. Optics Letters, 2017, 42, 4581.	3.3	10
14	Angular range, sampling and noise considerations for inverse light scattering analysis of nuclear morphology. Journal of Biophotonics, 2019, 12, e201800258.	2.3	8
15	Visualizing bleb mass dynamics in single cells using quantitative phase microscopy. Applied Optics, 2021, 60, G10.	1.8	7
16	Deep imaging with 1.3â€…Âµm dual-axis optical coherence tomography and an enhanced depth of focus. Biomedical Optics Express, 2021, 12, 7689.	2.9	6
17	Optical coherence tomography through a rigid borescope applied to quantification of articular cartilage thickness in a porcine knee model. Optics Letters, 2019, 44, 5590.	3.3	5
18	Optical coherence tomography of small intestine allograft biopsies using a handheld surgical probe. Journal of Biomedical Optics, 2021, 26, .	2.6	4

#	Article	IF	Citations
19	Spatial scanning of a sample with two-dimensional angle-resolved low-coherence interferometry for analysis of anisotropic scatterers. Biomedical Optics Express, 2020, 11, 4419.	2.9	3
20	Quantitative phase microscopy monitors subcellular dynamics in single cells exposed to nanosecond pulsed electric fields. Journal of Biophotonics, 2021, 14, e202100125.	2.3	2
21	Reconstruction of angle-resolved backscattering through a multimode fiber for cell nuclei and particle size determination. APL Photonics, 2020, 5, 076105.	5.7	1
22	Esophageal OCT Imaging Using a Paddle Probe Externally Attached to Endoscope. Digestive Diseases and Sciences, 2022, 67, 4805-4812.	2.3	1
23	Determination of Particle Size from Reconstructed Angular Backscattering Through a Single Multimode Fiber. , 2020, , .		0