

Zachary A Steelman

List of Publications by Year in descending order

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Version: 2024-02-01

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	Esophageal OCT Imaging Using a Paddle Probe Externally Attached to Endoscope. Digestive Diseases and Sciences, 2022, 67, 4805-4812.	2.3	1
2	Visualizing bleb mass dynamics in single cells using quantitative phase microscopy. Applied Optics, 2021, 60, G10.	1.8	7
3	Quantitative phase microscopy monitors subcellular dynamics in single cells exposed to nanosecond pulsed electric fields. Journal of Biophotonics, 2021, 14, e202100125.	2.3	2
4	Optical coherence tomography of small intestine allograft biopsies using a handheld surgical probe. Journal of Biomedical Optics, 2021, 26, .	2.6	4
5	Deep imaging with 1.3- μm dual-axis optical coherence tomography and an enhanced depth of focus. Biomedical Optics Express, 2021, 12, 7689.	2.9	6
6	Multimodal Coherent Imaging of Retinal Biomarkers of Alzheimer's Disease in a Mouse Model. Scientific Reports, 2020, 10, 7912.	3.3	16
7	Reconstruction of angle-resolved backscattering through a multimode fiber for cell nuclei and particle size determination. APL Photonics, 2020, 5, 076105.	5.7	1
8	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
9	Determination of Particle Size from Reconstructed Angular Backscattering Through a Single Multimode Fiber. , 2020, , .		0
10	Shear Modulus Measurement by Quantitative Phase Imaging and Correlation with Atomic Force Microscopy. Biophysical Journal, 2019, 117, 696-705.	0.5	22
11	Angular range, sampling and noise considerations for inverse light scattering analysis of nuclear morphology. Journal of Biophotonics, 2019, 12, e201800258.	2.3	8
12	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
13	Light-scattering methods for tissue diagnosis. Optica, 2019, 6, 479.	9.3	41
14	Response to Comment on "Is the nuclear refractive index lower than cytoplasm? Validation of phase measurements and implications for light scattering technologies". Journal of Biophotonics, 2018, 11, e201800091.	2.3	12
15	Comparison of imaging fiber bundles for coherence-domain imaging. Applied Optics, 2018, 57, 1455.	1.8	12
16	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
17	Optical Phase Measurements of Disorder Strength Link Microstructure to Cell Stiffness. Biophysical Journal, 2017, 112, 692-702.	0.5	57
18	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

#	ARTICLE	IF	CITATIONS
19	Revealing the glass transition in shape memory polymers using Brillouin spectroscopy. Applied Physics Letters, 2017, 111, 241904.	3.3	17
20	Scanning system for angle-resolved low-coherence interferometry. Optics Letters, 2017, 42, 4581.	3.3	10
21	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
22	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
23	Dual Raman-Brillouin Microscope for Chemical and Mechanical Characterization and Imaging. Analytical Chemistry, 2015, 87, 7519-7523.	6.5	106