

Michael G Nichols

List of Publications by Year in descending order

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34
papers

861
citations

516710

16
h-index

501196

28
g-index

34
all docs

34
docs citations

34
times ranked

1037
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and testing of a white-light, steady-state diffuse reflectance spectrometer for determination of optical properties of highly scattering systems. <i>Applied Optics</i> , 1997, 36, 93.	2.1	150
2	Quantitative broadband near-infrared spectroscopy of tissue-simulating phantoms containing erythrocytes. <i>Physics in Medicine and Biology</i> , 1998, 43, 3381-3404.	3.0	94
3	Effect of Molecular Structure on the Performance of Triarylmethane Dyes as Therapeutic Agents for Photochemical Purging of Autologous Bone Marrow Grafts from Residual Tumor Cells. , 2000, 89, 88-99.		71
4	Metabolic Imaging Using Two-Photon Excited NADH Intensity and Fluorescence Lifetime Imaging. <i>Microscopy and Microanalysis</i> , 2012, 18, 761-770.	0.4	58
5	Gentamicin Rapidly Inhibits Mitochondrial Metabolism in High-Frequency Cochlear Outer Hair Cells. <i>PLoS ONE</i> , 2012, 7, e38471.	2.5	52
6	Localization of luminescent inhomogeneities in turbid media with spatially resolved measurements of cw diffuse luminescence emittance. <i>Applied Optics</i> , 1998, 37, 2755.	2.1	47
7	Metabolic imaging of the organ of corti "A window on cochlea bioenergetics. <i>Brain Research</i> , 2009, 1277, 37-41.	2.2	43
8	Prestin in HEK cells is an obligate tetramer. <i>Journal of Neurophysiology</i> , 2012, 107, 5-11.	1.8	39
9	Determination of hair cell metabolic state in isolated cochlear preparations by two-photon microscopy. <i>Journal of Biomedical Optics</i> , 2007, 12, 021004.	2.6	38
10	Photobleaching of Reduced Nicotinamide Adenine Dinucleotide and the Development of Highly Fluorescent Lesions in Rat Basophilic Leukemia Cells During Multiphoton Microscopy. <i>Photochemistry and Photobiology</i> , 2006, 82, 656.	2.5	29
11	Studying inner ear protein-protein interactions using FRET and FLIM. <i>Brain Research</i> , 2006, 1091, 122-131.	2.2	24
12	Determination of cell elasticity through hybrid ray optics and continuum mechanics modeling of cell deformation in the optical stretcher. <i>Applied Optics</i> , 2009, 48, 6344.	2.1	24
13	Aminoglycosides rapidly inhibit NAD(P)H metabolism increasing reactive oxygen species and cochlear cell demise. <i>Journal of Biomedical Optics</i> , 2018, 24, 1.	2.6	21
14	Near-infrared laser illumination transforms the fluorescence absorbing X-Gal reaction product BCI into a transparent, yet brightly fluorescent substance. <i>Brain Research Bulletin</i> , 2006, 70, 33-43.	3.0	18
15	Reduction in DNA Synthesis During Two-photon Microscopy of Intrinsic Reduced Nicotinamide Adenine Dinucleotide Fluorescence. <i>Photochemistry and Photobiology</i> , 2005, 81, 259.	2.5	18
16	Ultrasmall Mixed Eu-Gd Oxide Nanoparticles for Multimodal Fluorescence and Magnetic Resonance Imaging of Passive Accumulation and Retention in TBI. <i>ACS Omega</i> , 2020, 5, 16220-16227.	3.5	17
17	Photo- and bio-physical characterization of novel violet and near-infrared lipophilic fluorophores for neuronal tracing. <i>Journal of Microscopy</i> , 2010, 239, 117-134.	1.8	16
18	Chemotherapy impedes in-vitro microcirculation and promotes migration of leukemic cells with impact on metastasis. <i>Biochemical and Biophysical Research Communications</i> , 2016, 479, 841-846.	2.1	16

#	ARTICLE	IF	CITATIONS
19	Retrofitted confocal laser scanner for a commercial inverted fluorescence microscope. Review of Scientific Instruments, 2001, 72, 3407-3410.	1.3	14
20	Gentamicin differentially alters cellular metabolism of cochlear hair cells as revealed by NAD(P)H fluorescence lifetime imaging. Journal of Biomedical Optics, 2015, 20, 051032.	2.6	13
21	The Single Molecule Imaging Approach to Membrane Protein Stoichiometry. Microscopy and Microanalysis, 2012, 18, 771-780.	0.4	10
22	The Conserved Tetrameric Subunit Stoichiometry of Slc26 Proteins. Microscopy and Microanalysis, 2013, 19, 799-807.	0.4	9
23	Low-intensity light-induced paclitaxel release from lipid-based nano-delivery systems. Journal of Drug Targeting, 2019, 27, 971-983.	4.4	8
24	Reduction in DNA Synthesis During Two-Photon Microscopy of Intrinsic NAD(P)H Fluorescence. Photochemistry and Photobiology, 2005, 81, 259-69.	2.5	8
25	Low-intensity light-induced drug release from a dual delivery system comprising of a drug loaded liposome and a photosensitive conjugate. Journal of Drug Targeting, 2020, 28, 655-667.	4.4	6
26	A Comparison of the Sensitivity of Photodamage Assays in Rat Basophilic Leukemia Cells. Photochemistry and Photobiology, 2005, 81, 556.	2.5	5
27	<title>Two steady-state methods for localizing a fluorescent inhomogeneity in a turbid medium</title>. , 1997, , .		4
28	Development and characterization of phasor-based analysis for FLIM to evaluate the metabolic and epigenetic impact of HER2 inhibition on squamous cell carcinoma cultures. Journal of Biomedical Optics, 2021, 26, .	2.6	3
29	Fluorescence Microscopy Methods in the Study of Protein Structure and Function. Methods in Molecular Biology, 2009, 493, 369-379.	0.9	2
30	The Single-Molecule Approach to Membrane Protein Stoichiometry. Methods in Molecular Biology, 2016, 1427, 189-199.	0.9	2
31	A Comparison of the Sensitivity of Photodamage Assays in Rat Basophilic Leukemia Cells. Photochemistry and Photobiology, 2005, 81, 556-562.	2.5	1
32	Complementing Confocal Detection of Antibody-labeled Lysophosphatidic Acid Receptors in Human Gingivae with Label-free Second Harmonic Generation Confocal Microscopy Detection of Collagen. FASEB Journal, 2015, 29, LB26.	0.5	1
33	Reduction in DNA Synthesis During Two-photon Microscopy of Intrinsic Reduced Nicotinamide Adenine Dinucleotide Fluorescence. Photochemistry and Photobiology, 2005, 81, 259-269.	2.5	0
34	Introduction: Modern Imaging in Biology and Medicine: Papers from the Seventh Omaha Imaging Symposium, April 2011. Microscopy and Microanalysis, 2012, 18, 728-729.	0.4	0