Nicholas I Smith

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71 2,281 25 47 g-index

88 2,748 4.6 4.97 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
71	Label-free Raman observation of cytochrome c dynamics during apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 28-32	11.5	306
70	Raman microscopy for dynamic molecular imaging of living cells. <i>Journal of Biomedical Optics</i> , 2008 , 13, 044027	3.5	191
69	Dynamic SERS imaging of cellular transport pathways with endocytosed gold nanoparticles. <i>Nano Letters</i> , 2011 , 11, 5344-8	11.5	185
68	Linear phase imaging using differential interference contrast microscopy. <i>Journal of Microscopy</i> , 2004 , 214, 7-12	1.9	166
67	An evaluation of fixation methods: Spatial and compositional cellular changes observed by Raman imaging. <i>Vibrational Spectroscopy</i> , 2017 , 91, 31-45	2.1	99
66	Introduction to super-resolution microscopy. <i>Microscopy (Oxford, England)</i> , 2014 , 63, 177-92	1.3	75
65	Noninvasive detection of macrophage activation with single-cell resolution through machine learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E26	7 6- Ē 2	685
64	Generation of calcium waves in living cells by pulsed-laser-induced photodisruption. <i>Applied Physics Letters</i> , 2001 , 79, 1208-1210	3.4	66
63	Nanoscale heating of laser irradiated single gold nanoparticles in liquid. <i>Optics Express</i> , 2011 , 19, 12375	-83	63
62	Structured line illumination Raman microscopy. <i>Nature Communications</i> , 2015 , 6, 10095	17.4	62
61	Time-resolved observation of surface-enhanced Raman scattering from gold nanoparticles during transport through a living cell. <i>Journal of Biomedical Optics</i> , 2009 , 14, 024038	3.5	62
60	Raman spectroscopic analysis of malaria disease progression via blood and plasma samples. <i>Analyst, The</i> , 2013 , 138, 3927-33	5	56
59	Differential expression of pyloric atresia in junctional epidermolysis bullosa with ITGB4 mutations suggests that pyloric atresia is due to factors other than the mutations and not predictive of a poor outcome: three novel mutations and a review of the literature. <i>Acta Dermato-Venereologica</i> , 2008 ,	2.2	51
58	A femtosecond laser pacemaker for heart muscle cells. <i>Optics Express</i> , 2008 , 16, 8604-16	3.3	49
57	z-Polarization sensitive detection in micro-Raman spectroscopy by radially polarized incident light. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 1643-1648	2.3	46
56	Raman spectroscopy as a tool for label-free lymphocyte cell line discrimination. <i>Analyst, The</i> , 2016 , 141, 3756-64	5	43
55	Deep ultraviolet resonant Raman imaging of a cell. <i>Journal of Biomedical Optics</i> , 2012 , 17, 076001	3.5	42

54	Optical trapping and surgery of living yeast cells using a single laser. <i>Review of Scientific Instruments</i> , 2008 , 79, 103705	1.7	37	
53	3D SERS (surface enhanced Raman scattering) imaging of intracellular pathways. <i>Methods</i> , 2014 , 68, 34	18 ₄ 56	34	
52	Quantitative DIC microscopy using a geometric phase shifter 1997,		32	
51	Location-dependent photogeneration of calcium waves in HeLa cells. <i>Cell Biochemistry and Biophysics</i> , 2006 , 45, 167-76	3.2	32	
50	Beyond the diffraction-limit biological imaging by saturated excitation microscopy. <i>Journal of Biomedical Optics</i> , 2008 , 13, 050507	3.5	28	
49	Polyamines reverse non-steroidal anti-inflammatory drug-induced toxicity in human colorectal cancer cells. <i>Biochemical Journal</i> , 2003 , 374, 481-8	3.8	27	
48	Cell optical density and molecular composition revealed by simultaneous multimodal label-free imaging. <i>Biophysical Journal</i> , 2013 , 105, 1123-32	2.9	26	
47	SAX microscopy with fluorescent nanodiamond probes for high-resolution fluorescence imaging. <i>Biomedical Optics Express</i> , 2011 , 2, 1946-54	3.5	26	
46	Photogeneration of membrane potential hyperpolarization and depolarization in non-excitable cells. <i>European Biophysics Journal</i> , 2009 , 38, 255-62	1.9	25	
45	Comparison of staining selectivity for subcellular structures by carbazole-based cyanine probes in nonlinear optical microscopy. <i>ChemBioChem</i> , 2011 , 12, 52-5	3.8	24	
44	Three-dimensional subsurface microprocessing of collagen by ultrashort laser pulses. <i>Applied Physics Letters</i> , 2001 , 78, 999-1001	3.4	23	
43	Super-Spatial- and -Spectral-Resolution in Vibrational Imaging via Saturated Coherent Anti-Stokes Raman Scattering. <i>Physical Review Applied</i> , 2015 , 4,	4.3	20	
42	Analysis of dynamic SERS spectra measured with a nanoparticle during intracellular transportation in 3D. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 114023	1.7	18	
41	Effect of Surface-Modified Gold Nanorods on the Inflammatory Cytokine Response in Macrophage Cells. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 427-433	3.1	18	
40	Saturated excitation microscopy for sub-diffraction-limited imaging of cell clusters. <i>Journal of Biomedical Optics</i> , 2013 , 18, 126002	3.5	18	
39	Photostimulation of two types of Ca2+waves in rat pheochromocytoma PC12 cells by ultrashort pulsed near-infrared laser irradiation. <i>Laser Physics Letters</i> , 2006 , 3, 154-161	1.5	18	
38	Slow Ca(2+) wave stimulation using low repetition rate femtosecond pulsed irradiation. <i>Optics Express</i> , 2006 , 14, 717-25	3.3	18	
37	Saturated two-photon excitation fluorescence microscopy with core-ring illumination. <i>Optics Letters</i> , 2017 , 42, 571-574	3	17	

36	Visible-wavelength two-photon excitation microscopy for fluorescent protein imaging. <i>Journal of Biomedical Optics</i> , 2015 , 20, 101202	3.5	16
35	Feature-based recognition of surface-enhanced Raman spectra for biological targets. <i>Journal of Biophotonics</i> , 2013 , 6, 587-97	3.1	16
34	Deconstructing RNA: optical measurement of composition and structure. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13199-208	3.6	16
33	Femtosecond laser nano-ablation in fixed and non-fixed cultured cells. <i>Optics Express</i> , 2008 , 16, 14476-	95 .3	16
32	Label-free Raman imaging of the macrophage response to the malaria pigment hemozoin. <i>Analyst, The,</i> 2015 , 140, 2350-9	5	14
31	Maximizing throughput in label-free microspectroscopy with hybrid Raman imaging. <i>Journal of Biomedical Optics</i> , 2015 , 20, 016007	3.5	14
30	Dual-polarization Raman spectral imaging to extract overlapping molecular fingerprints of living cells. <i>Journal of Biophotonics</i> , 2015 , 8, 546-54	3.1	14
29	Unified theory of monochromatic and broadband modulational and decay instabilities of Langmuir waves. <i>Physics of Plasmas</i> , 2002 , 9, 4149-4159	2.1	12
28	Laser-targeted photofabrication of gold nanoparticles inside cells. <i>Nature Communications</i> , 2014 , 5, 51	44 7.4	11
27	Determination of the Expanded Optical Transfer Function in Saturated Excitation Imaging and High Harmonic Demodulation. <i>Applied Physics Express</i> , 2011 , 4, 042401	2.4	11
26	Heparin induces neutrophil elastase-dependent vital and lytic NET formation. <i>International Immunology</i> , 2020 , 32, 359-368	4.9	11
25	Saturated excitation microscopy with optimized excitation modulation. ChemPhysChem, 2014, 15, 743-	9 3.2	10
24	Saturated excitation microscopy using differential excitation for efficient detection of nonlinear fluorescence signals. <i>APL Photonics</i> , 2018 , 3, 080805	5.2	10
23	Saturated excitation of fluorescent proteins for subdiffraction-limited imaging of living cells in three dimensions. <i>Interface Focus</i> , 2013 , 3, 20130007	3.9	8
22	Single-pulse cell stimulation with a near-infrared picosecond laser. <i>Applied Physics Letters</i> , 2005 , 87, 24,	39,041	5
21	Photofabrication of a photonic crystal using interference of a UV laser 1999,		3
20	Visible-wavelength two-photon excitation microscopy with multifocus scanning for volumetric live-cell imaging. <i>Journal of Biomedical Optics</i> , 2019 , 25, 1-5	3.5	3
19	Immune cell type, cell activation, and single cell heterogeneity revealed by label-free optical methods. <i>Scientific Reports</i> , 2019 , 9, 17054	4.9	3

18	Dynamic SERS imaging with gold nanoparticles transported in a living cell 2013,		2
17	1N1312 Time-resolved Raman imaging of malarial hemozoin(Bioimaging 1,The 49th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2011 , 51, S66	O	2
16	Automated processing of label-free Raman microscope images of macrophage cells with standardized regression for high-throughput analysis. <i>Immunome Research</i> , 2010 , 6, 11		2
15	Alkyne-tag SERS imaging for visualizing small molecule drugs in live cells 2020,		2
14	Hyperspectral two-photon excitation microscopy using visible wavelength. <i>Optics Letters</i> , 2021 , 46, 37	-49	2
13	Observation of living cells with gold nanoparticles by using surface-enhanced Raman scattering 2009 ,		1
12	Stimulation of living cells by femtosecond near-infrared laser pulses 2003,		1
11	Spectral focusing in picosecond pulsed stimulated Raman scattering microscopy <i>Biomedical Optics Express</i> , 2022 , 13, 995-1004	3.5	1
10	Hyperspectral fluorescence imaging by using visible-wavelength two-photon excitation 2020,		1
9	Deriving accurate molecular indicators of protein synthesis through Raman-based sparse classification. <i>Analyst, The</i> , 2021 , 146, 3633-3641	5	1
8	Vibrational spectroscopic imaging of pathogens, microorganisms, and their interactions with host systems. <i>Optics Communications</i> , 2018 , 422, 75-84	2	O
7	Nonlinear Fluorescence Imaging by Saturated Excitation 2010 , 2-1-2-16		O
6	Label-free Raman mapping of saturated and unsaturated fatty acid uptake, storage, and return toward baseline levels in macrophages. <i>Analyst, The</i> , 2021 , 146, 1268-1280	5	О
5	Detecting nitrile-containing small molecules by infrared photothermal microscopy. <i>Analyst, The</i> , 2021 , 146, 2307-2312	5	O
4	Label-Free Raman Imaging 2018 , 277-331		
3	1P-335 An optical pacemaker for heart muscle cells(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S74	Ο	
2	1P-340 An optical pacemaker for heart muscle cells: the laser irradiation power, phase, frequency dependencies(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S74-S75	О	
1	Cellular Adhesion Is a Controlling Factor in Neutrophil Extracellular Trap Formation Induced by Anti-Neutrophil Cytoplasmic Antibodies <i>ImmunoHorizons</i> , 2022 , 6, 170-183	2.7	