

Nicholas I Smith

List of Publications by Year in Descending Order

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Version: 2024-04-10

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71 papers	2,281 citations	25 h-index	47 g-index
88 ext. papers	2,748 ext. citations	4.6 avg, IF	4.97 L-index

#	Paper	IF	Citations
71	Spectral focusing in picosecond pulsed stimulated Raman scattering microscopy.. <i>Biomedical Optics Express</i> , 2022 , 13, 995-1004	3.5	1
70	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	
69	Hyperspectral two-photon excitation microscopy using visible wavelength. <i>Optics Letters</i> , 2021 , 46, 37-40		2
68	Deriving accurate molecular indicators of protein synthesis through Raman-based sparse classification. <i>Analyst, The</i> , 2021 , 146, 3633-3641	5	1
67	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	0
66	Detecting nitrile-containing small molecules by infrared photothermal microscopy. <i>Analyst, The</i> , 2021 , 146, 2307-2312	5	0
65	Alkyne-tag SERS imaging for visualizing small molecule drugs in live cells 2020 ,		2
64	Hyperspectral fluorescence imaging by using visible-wavelength two-photon excitation 2020 ,		1
63	Heparin induces neutrophil elastase-dependent vital and lytic NET formation. <i>International Immunology</i> , 2020 , 32, 359-368	4.9	11
62	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
61	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
60	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, E2676-E2685	11.5	67
59	Vibrational spectroscopic imaging of pathogens, microorganisms, and their interactions with host systems. <i>Optics Communications</i> , 2018 , 422, 75-84	2	0
58	Label-Free Raman Imaging 2018 , 277-331		
57	Saturated excitation microscopy using differential excitation for efficient detection of nonlinear fluorescence signals. <i>APL Photonics</i> , 2018 , 3, 080805	5.2	10
56	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
55	Saturated two-photon excitation fluorescence microscopy with core-ring illumination. <i>Optics Letters</i> , 2017 , 42, 571-574	3	17

54	Raman spectroscopy as a tool for label-free lymphocyte cell line discrimination. <i>Analyst, The</i> , 2016 , 141, 3756-64	5	43
53	Label-free Raman imaging of the macrophage response to the malaria pigment hemozoin. <i>Analyst, The</i> , 2015 , 140, 2350-9	5	14
52	Maximizing throughput in label-free microspectroscopy with hybrid Raman imaging. <i>Journal of Biomedical Optics</i> , 2015 , 20, 016007	3.5	14
51	Visible-wavelength two-photon excitation microscopy for fluorescent protein imaging. <i>Journal of Biomedical Optics</i> , 2015 , 20, 101202	3.5	16
50	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
49	Structured line illumination Raman microscopy. <i>Nature Communications</i> , 2015 , 6, 10095	17.4	62
48	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
47	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
46	Laser-targeted photofabrication of gold nanoparticles inside cells. <i>Nature Communications</i> , 2014 , 5, 5144	17.4	11
45	Introduction to super-resolution microscopy. <i>Microscopy (Oxford, England)</i> , 2014 , 63, 177-92	1.3	75
44	3D SERS (surface enhanced Raman scattering) imaging of intracellular pathways. <i>Methods</i> , 2014 , 68, 348-53	4.3	34
43	Saturated excitation microscopy with optimized excitation modulation. <i>ChemPhysChem</i> , 2014 , 15, 743-9	3.2	10
42	Cell optical density and molecular composition revealed by simultaneous multimodal label-free imaging. <i>Biophysical Journal</i> , 2013 , 105, 1123-32	2.9	26
41	Feature-based recognition of surface-enhanced Raman spectra for biological targets. <i>Journal of Biophotonics</i> , 2013 , 6, 587-97	3.1	16
40	Deconstructing RNA: optical measurement of composition and structure. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13199-208	3.6	16
39	Raman spectroscopic analysis of malaria disease progression via blood and plasma samples. <i>Analyst, The</i> , 2013 , 138, 3927-33	5	56
38	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
37	Saturated excitation microscopy for sub-diffraction-limited imaging of cell clusters. <i>Journal of Biomedical Optics</i> , 2013 , 18, 126002	3.5	18

36	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
35	Dynamic SERS imaging with gold nanoparticles transported in a living cell 2013 ,		2
34	Deep ultraviolet resonant Raman imaging of a cell. <i>Journal of Biomedical Optics</i> , 2012 , 17, 076001	3.5	42
33	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
32	Dynamic SERS imaging of cellular transport pathways with endocytosed gold nanoparticles. <i>Nano Letters</i> , 2011 , 11, 5344-8	11.5	185
31	SAX microscopy with fluorescent nanodiamond probes for high-resolution fluorescence imaging. <i>Biomedical Optics Express</i> , 2011 , 2, 1946-54	3.5	26
30	Nanoscale heating of laser irradiated single gold nanoparticles in liquid. <i>Optics Express</i> , 2011 , 19, 12375-83	3.3	63
29	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	0	2
28	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
27	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
26	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
25	Nonlinear Fluorescence Imaging by Saturated Excitation 2010 , 2-1-2-16		0
24	Observation of living cells with gold nanoparticles by using surface-enhanced Raman scattering 2009 ,		1
23	Photogeneration of membrane potential hyperpolarization and depolarization in non-excitable cells. <i>European Biophysics Journal</i> , 2009 , 38, 255-62	1.9	25
22	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
21	A femtosecond laser pacemaker for heart muscle cells. <i>Optics Express</i> , 2008 , 16, 8604-16	3.3	49
20	Femtosecond laser nano-ablation in fixed and non-fixed cultured cells. <i>Optics Express</i> , 2008 , 16, 14476-95	3.3	16
19	Beyond the diffraction-limit biological imaging by saturated excitation microscopy. <i>Journal of Biomedical Optics</i> , 2008 , 13, 050507	3.5	28

18	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 , 88, 438-48	2.2	51
17	Raman microscopy for dynamic molecular imaging of living cells. <i>Journal of Biomedical Optics</i> , 2008 , 13, 044027	3.5	191
16	Optical trapping and surgery of living yeast cells using a single laser. <i>Review of Scientific Instruments</i> , 2008 , 79, 103705	1.7	37
15	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	0	
14	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	0	
13	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
12	Photostimulation of two types of Ca ²⁺ 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
11	Slow Ca(2+) wave stimulation using low repetition rate femtosecond pulsed irradiation. <i>Optics Express</i> , 2006 , 14, 717-25	3.3	18
10	Location-dependent photogeneration of calcium waves in HeLa cells. <i>Cell Biochemistry and Biophysics</i> , 2006 , 45, 167-76	3.2	32
9	Single-pulse cell stimulation with a near-infrared picosecond laser. <i>Applied Physics Letters</i> , 2005 , 87, 2439-2441	3.0	5
8	Linear phase imaging using differential interference contrast microscopy. <i>Journal of Microscopy</i> , 2004 , 214, 7-12	1.9	166
7	Stimulation of living cells by femtosecond near-infrared laser pulses 2003 ,		1
6	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
5	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
4	Generation of calcium waves in living cells by pulsed-laser-induced photodisruption. <i>Applied Physics Letters</i> , 2001 , 79, 1208-1210	3.4	66
3	Three-dimensional subsurface microprocessing of collagen by ultrashort laser pulses. <i>Applied Physics Letters</i> , 2001 , 78, 999-1001	3.4	23
2	Photofabrication of a photonic crystal using interference of a UV laser 1999 ,		3
1	Quantitative DIC microscopy using a geometric phase shifter 1997 ,		32

