Christopher J Rowlands

List of Publications by Year
in descending order

32	1,445	706676 14	488211 31
papers	citations	h-index	g-index

32	32	32	3259
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantification of the NA dependent change of shape in the image formation of a zâ€polarized fluorescent molecule using vectorial diffraction simulations. Microscopy Research and Technique, 2022, , .	1.2	2
2	Thermally-actuated microfluidic membrane valve for point-of-care applications. Microsystems and Nanoengineering, 2021, 7, 48.	3.4	12
3	Method for assessing the spatiotemporal resolution of structured illumination microscopy (SIM). Biomedical Optics Express, 2021, 12, 790.	1.5	3
4	Elastic Deformation of Soft Tissue-Mimicking Materials Using a Single Microbubble and Acoustic Radiation Force. Ultrasound in Medicine and Biology, 2020, 46, 3327-3338.	0.7	12
5	Luminescent surfaces with tailored angular emission for compact dark-field imaging devices. Nature Photonics, 2020, 14, 310-315.	15.6	33
6	Increasing the penetration depth of temporal focusing multiphoton microscopy for neurobiological applications. Journal Physics D: Applied Physics, 2019, 52, 264001.	1.3	10
7	Scanless volumetric imaging by selective access multifocal multiphoton microscopy. Optica, 2019, 6, 76.	4.8	15
8	Flat-Field Super-Resolution Localization Microscopy with a Low-Cost Refractive Beam-Shaping Element. Scientific Reports, 2018, 8, 5630.	1.6	27
9	Quantification of labile heme in live malaria parasites using a genetically encoded biosensor. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2068-E2076.	3.3	56
10	Next-generation in vivo optical imaging with short-wave infrared quantum dots. Nature Biomedical Engineering, 2017, 1, .	11.6	490
11	Wide-field three-photon excitation in biological samples. Light: Science and Applications, 2017, 6, e16255-e16255.	7.7	67
12	Enhanced Axial Resolution of Wide-Field Two-Photon Excitation Microscopy by Line Scanning Using a Digital Micromirror Device. Micromachines, 2017, 8, 85.	1.4	15
13	Microfluidic device for the formation of optically excitable, three-dimensional, compartmentalized motor units. Science Advances, 2016, 2, e1501429.	4.7	192
14	Near-Infrared Temporal Focusing Microscopy with Quantum Dot Fluorophores. , 2016, , .		0
15	Objective, comparative assessment of the penetration depth of temporal-focusing microscopy for imaging various organs. Journal of Biomedical Optics, 2015, 20, 061107.	1.4	9
16	Parallel and flexible imaging using two-photon RESOLFT microscopy with spatial light modulator control. Proceedings of SPIE, 2015, , .	0.8	1
17	3D-resolved targeting of photodynamic therapy using temporal focusing. Laser Physics Letters, 2014, 11, 115605.	0.6	8
18	Application of multiphoton microscopy in dermatological studies: A mini-review. Journal of Innovative Optical Health Sciences, 2014, 07, 1330010.	0.5	61

#	Article	IF	Citations
19	Increasing the speed of tumour diagnosis during surgery with selective scanning Raman microscopy. Journal of Molecular Structure, 2014, 1073, 58-65.	1.8	15
20	Parallel super-resolution imaging. Nature Methods, 2013, 10, 709-710.	9.0	2
21	High-Throughput Nonlinear Optical Microscopy. Biophysical Journal, 2013, 105, 2641-2654.	0.2	45
22	On the correction of errors in some multiple particle tracking experiments. Applied Physics Letters, 2013, 102, 021913.	1.5	8
23	Diagnosis of tumors during tissue-conserving surgery with integrated autofluorescence and Raman scattering microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15189-15194.	3.3	205
24	Label-free molecular analysis of live Neospora caninum tachyzoites in host cells by selective scanning Raman micro-spectroscopy. Analyst, The, 2012, 137, 4119.	1.7	21
25	Rapid acquisition of Raman spectral maps through minimal sampling: applications in tissue imaging. Journal of Biophotonics, 2012, 5, 220-229.	1.1	48
26	Automated algorithm for baseline subtraction in spectra. Journal of Raman Spectroscopy, 2011, 42, 363-369.	1.2	31
27	Denoising of spectra with no user input: a splineâ€smoothing algorithm. Journal of Raman Spectroscopy, 2011, 42, 370-376.	1.2	14
28	Improved blindâ€source separation for spectra. Journal of Raman Spectroscopy, 2011, 42, 1761-1768.	1.2	7
29	Rapid Prototyping of Lowâ€Loss IR Chalcogenideâ€Glass Waveguides by Controlled Remelting. ChemPhysChem, 2010, 11, 2393-2398.	1.0	7
30	Investigating the response of As2S3-based SERS substrates. Optical Materials, 2010, 32, 1413-1416.	1.7	2
31	Nanostructures fabricated in chalcogenide glass for use as surface-enhanced Raman scattering substrates. Optics Letters, 2009, 34, 1645.	1.7	19
32	Fabrication of photonic waveguides in sulfide chalcogenide glasses by selective wet-etching. Electronics Letters, 2008, 44, 472.	0.5	8