Richard Bowman

List of Publications by Year
in descending order

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30 papers	2,864 citations	567281 15 h-index	580821 25 g-index
31 all docs	31 docs citations	31 times ranked	3004 citing authors

#	Article	IF	Citations
1	Fast, highâ€precision autofocus on a motorised microscope: Automating blood sample imaging on the OpenFlexure Microscope. Journal of Microscopy, 2022, 285, 29-39.	1.8	8
2	autohaem: 3D printed devices for automated preparation of blood smears. Review of Scientific Instruments, 2022, 93, 014104.	1.3	2
3	HardOps: utilising the software development toolchain for hardware design. International Journal of Computer Integrated Manufacturing, 2022, 35, 1297-1309.	4.6	4
4	Combining development, capacity building and responsible innovation in GCRFâ€funded medical technology research. Developing World Bioethics, 2022, , .	0.9	3
5	Multi-modal microscopy imaging with the OpenFlexure Delta Stage. Optics Express, 2022, 30, 26377.	3.4	6
6	A Cost-Effective Pulse Oximeter Designed in Response to the COVID-19 Pandemic. Journal of Open Hardware, 2021, 5, .	0.5	3
7	The COVID-19 Pandemic Highlights the Need for Open Design Not Just Open Hardware. Design Journal, 2021, 24, 299-314.	0.8	11
8	The OpenFlexure Block Stage: sub-100 nm fibre alignment with a monolithic plastic flexure stage. Optics Express, 2020, 28, 4763.	3.4	11
9	Plasmonic nanohole electrodes for active color tunable liquid crystal transmissive pixels. Optics Letters, 2017, 42, 2810.	3.3	24
10	Optically Induced Forces Imposed in an Optical Funnel on a Stream of Particles in Air or Vacuum. Physical Review Applied, 2015, 4, .	3.8	37
11	Near video-rate linear Stokes imaging with single-pixel detectors. Journal of Optics (United Kingdom), 2015, 17, 025705.	2.2	43
12	Single-pixel infrared and visible microscope. Optica, 2014, 1, 285.	9.3	300
13	Fast full-color computational imaging with single-pixel detectors. Optics Express, 2013, 21, 23068.	3.4	226
14	Optically trapped and driven paddle-wheel. New Journal of Physics, 2013, 15, 063016.	2.9	34
15	Touching the micron. , 2012, , .		0
16	Position clamping in a holographic counterpropagating optical trap. Optics Express, 2011, 19, 9908.	3.4	38
17	Holographic aberration correction: optimising the stiffness of an optical trap deep in the sample. Optics Express, 2011, 19, 24589.	3.4	21
18	Tweezers with a twist. Nature Photonics, 2011, 5, 343-348.	31.4	1,678

#	Article	IF	Citations
19	Stereoscopic particle tracking for 3D touch, vision and closed-loop control in optical tweezers. Journal of Optics (United Kingdom), 2011, 13, 044003.	2.2	39
20	Holographic tweezers: a platform for plasmonics. , 2011, , .		3
21	Real time characterization of hydrodynamics in optically trapped networks of microâ€particles. Journal of Biophotonics, 2010, 3, 244-251.	2.3	13
22	Particle tracking stereomicroscopy in optical tweezers: Control of trap shape. Optics Express, 2010, 18, 11785.	3.4	95
23	Four-dimensional multi-site two-photon excitation. Proceedings of SPIE, 2010, , .	0.8	0
24	A comprehensive software suite for optical trapping and manipulation. , 2009, , .		3
25	Sensing interactions in the microworld with optical tweezers. , 2009, , .		0
26	Arbitrary multisite two-photon excitation in four dimensions. Applied Physics Letters, 2009, 95, .	3.3	47
27	Touching the microworld with force-feedback optical tweezers. Optics Express, 2009, 17, 10259.	3.4	72
28	Increasing trap stiffness with position clamping in holographic optical tweezers. Optics Express, 2009, 17, 22718.	3.4	79
29	Independent polarisation control of multiple optical traps. Optics Express, 2008, 16, 15897.	3.4	56
30	A spatial light phase modulator with an effective resolution of 4 mega-pixels. Journal of Modern Optics, 2008, 55, 2945-2951.	1.3	5