Richard Bowman

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2474837/publications.pdf

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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	Tweezers with a twist. Nature Photonics, 2011, 5, 343-348.	31.4	1,678
2	Single-pixel infrared and visible microscope. Optica, 2014, 1, 285.	9.3	300
3	Fast full-color computational imaging with single-pixel detectors. Optics Express, 2013, 21, 23068.	3.4	226
4	Particle tracking stereomicroscopy in optical tweezers: Control of trap shape. Optics Express, 2010, 18, 11785.	3.4	95
5	Increasing trap stiffness with position clamping in holographic optical tweezers. Optics Express, 2009, 17, 22718.	3.4	79
6	Touching the microworld with force-feedback optical tweezers. Optics Express, 2009, 17, 10259.	3.4	72
7	Independent polarisation control of multiple optical traps. Optics Express, 2008, 16, 15897.	3.4	56
8	Arbitrary multisite two-photon excitation in four dimensions. Applied Physics Letters, 2009, 95, .	3.3	47
9	Near video-rate linear Stokes imaging with single-pixel detectors. Journal of Optics (United Kingdom), 2015, 17, 025705.	2.2	43
10	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
11	Position clamping in a holographic counterpropagating optical trap. Optics Express, 2011, 19, 9908.	3.4	38
12	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
13	Optically trapped and driven paddle-wheel. New Journal of Physics, 2013, 15, 063016.	2.9	34
14	Plasmonic nanohole electrodes for active color tunable liquid crystal transmissive pixels. Optics Letters, 2017, 42, 2810.	3.3	24
15	Holographic aberration correction: optimising the stiffness of an optical trap deep in the sample. Optics Express, 2011, 19, 24589.	3.4	21
16	Real time characterization of hydrodynamics in optically trapped networks of microâ€particles. Journal of Biophotonics, 2010, 3, 244-251.	2.3	13
17	The COVID-19 Pandemic Highlights the Need for Open Design Not Just Open Hardware. Design Journal, 2021, 24, 299-314.	0.8	11
18	The OpenFlexure Block Stage: sub-100 nm fibre alignment with a monolithic plastic flexure stage. Optics Express, 2020, 28, 4763.	3.4	11

#	Article	IF	Citations
19	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
20	Multi-modal microscopy imaging with the OpenFlexure Delta Stage. Optics Express, 2022, 30, 26377.	3.4	6
21	A spatial light phase modulator with an effective resolution of 4 mega-pixels. Journal of Modern Optics, 2008, 55, 2945-2951.	1.3	5
22	HardOps: utilising the software development toolchain for hardware design. International Journal of Computer Integrated Manufacturing, 2022, 35, 1297-1309.	4.6	4
23	A comprehensive software suite for optical trapping and manipulation. , 2009, , .		3
24	Holographic tweezers: a platform for plasmonics. , 2011, , .		3
25	A Cost-Effective Pulse Oximeter Designed in Response to the COVID-19 Pandemic. Journal of Open Hardware, 2021, 5, .	0.5	3
26	Combining development, capacity building and responsible innovation in GCRFâ€funded medical technology research. Developing World Bioethics, 2022, , .	0.9	3
27	autohaem: 3D printed devices for automated preparation of blood smears. Review of Scientific Instruments, 2022, 93, 014104.	1.3	2
28	Sensing interactions in the microworld with optical tweezers. , 2009, , .		0
29	Four-dimensional multi-site two-photon excitation. Proceedings of SPIE, 2010, , .	0.8	0
30	Touching the micron. , 2012, , .		0