Graham D Bruce

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8809938/publications.pdf

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26	774	687363 13	642732 23
papers	citations	h-index	g-index

26	26	26	930
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single-atom imaging of fermions in a quantum-gas microscope. Nature Physics, 2015, 11, 738-742.	16.7	289
2	Harnessing speckle for a sub-femtometre resolved broadband wavemeter and laser stabilization. Nature Communications, 2017, 8, 15610.	12.8	80
3	Deep Learning Enabled Laser Speckle Wavemeter with a High Dynamic Range. Laser and Photonics Reviews, 2020, 14, 2000120.	8.7	47
4	Overcoming the speckle correlation limit to achieve a fiber wavemeter with attometer resolution. Optics Letters, 2019, 44, 1367.	3.3	45
5	High-fidelity phase and amplitude control of phase-only computer generated holograms using conjugate gradient minimisation. Optics Express, 2017, 25, 11692.	3.4	40
6	Optical hooks. Nature Photonics, 2019, 13, 229-230.	31.4	40
7	A smooth, holographically generated ring trap for the investigation of superfluidity in ultracold atoms. Physica Scripta, 2011, T143, 014008.	2.5	26
8	Conjugate gradient minimisation approach to generating holographic traps for ultracold atoms. Optics Express, 2014, 22, 26548.	3.4	26
9	Measurement of vacuum pressure with a magneto-optical trap: A pressure-rise method. Review of Scientific Instruments, 2015, 86, 093108.	1.3	24
10	Femtometer-resolved simultaneous measurement of multiple laser wavelengths in a speckle wavemeter. Optics Letters, 2020, 45, 1926.	3.3	23
11	Light-induced atomic desorption in a compact system for ultracold atoms. Scientific Reports, 2015, 5, 14729.	3.3	21
12	Multi-wavelength holography with a single spatial light modulator for ultracold atom experiments. Optics Express, 2015, 23, 8365.	3.4	17
13	Holographic power-law traps for the efficient production of Bose-Einstein condensates. Physical Review A, 2011, 84, .	2.5	16
14	Initiating revolutions for optical manipulation: the origins and applications of rotational dynamics of trapped particles. Advances in Physics: X, 2021, 6, 1838322.	4.1	15
15	Feedback-enhanced algorithm for aberration correction of holographic atom traps. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 115303.	1.5	13
16	Wavelength sensitivity of the speckle patterns produced by an integrating sphere. JPhys Photonics, 2021, 3, 035005.	4.6	12
17	High speed determination of laser wavelength using PoincarÃ© descriptors of speckle. Optics Communications, 2020, 459, 124906.	2.1	10
18	Through-bottle whisky sensing and classification using Raman spectroscopy in an axicon-based backscattering configuration. Analytical Methods, 2020, 12, 4572-4578.	2.7	8

#	Article	IF	Citations
19	Measurement of Variations in Gas Refractive Index with 10^{â€“9} Resolution Using Laser Speckle. ACS Photonics, 2022, 9, 830-836.	6.6	6
20	Speckle-based determination of the polarisation state of single and multiple laser beams. OSA Continuum, 2020, 3, 1302.	1.8	5
21	Is laser repetition rate important for two-photon light sheet microscopy?. OSA Continuum, 2020, 3, 2935.	1.8	4
22	Transverse optical binding for a dual dipolar dielectric nanoparticle dimer. Physical Review A, 2021, 103, .	2.5	3
23	To focus-match or not to focus-match inverse spatially offset Raman spectroscopy: a question of light penetration. Optics Express, 2022, 30, 8876.	3.4	3
24	Asymmetric longitudinal optical binding force between two identical dielectric particles with electric and magnetic dipolar responses. Physical Review A, 2022, 106, .	2.5	1
25	Speckle-based wavelength measurement at femtometer resolution using a multimode fibre. , 2018, , .		0
26	A femtometer-resolved all-fiber speckle wavemeter (Conference Presentation). , 2018, , .		0