David B Phillips

List of Publications by Year
in descending order

15	942	840776 11	1125743 13
papers	citations	h-index	g-index

15	15	15	1133
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adaptive foveated single-pixel imaging with dynamic supersampling. Science Advances, 2017, 3, e1601782.	10.3	184
2	Fast electrical switching of orbital angular momentum modes using ultra-compact integrated vortex emitters. Nature Communications, 2014, 5, 4856.	12.8	149
3	High-speed spatial control of the intensity, phase and polarisation of vector beams using a digital micro-mirror device. Optics Express, 2016, 24, 29269.	3.4	101
4	Comparison of nematic liquid-crystal and DMD based spatial light modulation in complex photonics. Optics Express, 2017, 25, 29874.	3.4	95
5	Indirect optical trapping using light driven micro-rotors for reconfigurable hydrodynamic manipulation. Nature Communications, 2019, 10, 1215.	12.8	91
6	â€œRed Tweezersâ€: Fast, customisable hologram generation for optical tweezers. Computer Physics Communications, 2014, 185, 268-273.	7.5	88
7	Time-of-flight 3D imaging through multimode optical fibers. Science, 2021, 374, 1395-1399.	12.6	66
8	Memory effect assisted imaging through multimode optical fibres. Nature Communications, 2021, 12, 3751.	12.8	58
9	Compressively sampling the optical transmission matrix of a multimode fibre. Light: Science and Applications, 2021, 10, 88.	16.6	49
10	Reversal of orbital angular momentum arising from an extreme Doppler shift. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3800-3803.	7.1	35
11	Computational optical imaging with a photonic lantern. Nature Communications, 2020, 11, 5217.	12.8	23
12	Entropy Production in an Elementary, Light Driven Micro-Machine. Frontiers in Physics, 2020, 8, .	2.1	2
13	The transition from a coherent optical vortex to a Rankine vortex: beam contrast dependence on topological charge. Journal of Modern Optics, 2016, 63, S51-S56.	1.3	1
14	Enhanced optical trapping. , 2020, , .		0
15	Indirect Optical Tweezing: Pinpoint Particle Control Using Optically Engineered Fluid Flow. , 2021, , .		0