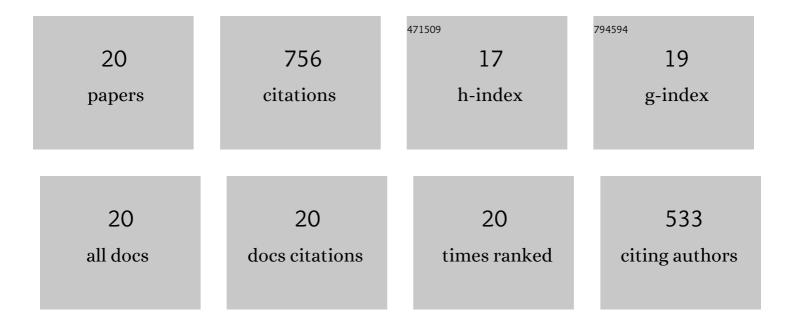
Stephen H Simpson

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7039039/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Optical trapping of spheroidal particles in Gaussian beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 430.	1.5	85
2	Application of the discrete dipole approximation to optical trapping calculations of inhomogeneous and anisotropic particles. Optics Express, 2011, 19, 16526.	3.4	64
3	Optical Trapping, Optical Binding, and Rotational Dynamics of Silicon Nanowires in Counter-Propagating Beams. Nano Letters, 2019, 19, 342-352.	9.1	63
4	Optical angular momentum transfer by Laguerre-Gaussian beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 625.	1.5	58
5	Holographic optical trapping of microrods and nanowires. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 1255.	1.5	53
6	First-order nonconservative motion of optically trapped nonspherical particles. Physical Review E, 2010, 82, 031141.	2.1	46
7	Orbital motion of optically trapped particles in Laguerre–Gaussian beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 2061.	1.5	43
8	Polarization-induced torque in optical traps. Physical Review A, 2007, 76, .	2.5	42
9	Numerical calculation of interparticle forces arising in association with holographic assembly. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 1419.	1.5	39
10	Photonic Torque Microscopy of the Nonconservative Force Field for Optically Trapped Silicon Nanowires. Nano Letters, 2016, 16, 4181-4188.	9.1	39
11	Optical Binding of Nanowires. Nano Letters, 2017, 17, 3485-3492.	9.1	39
12	Rotation of absorbing spheres in Laguerre-Gaussian beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 173.	1.5	37
13	Optical lift from dielectric semicylinders. Optics Letters, 2012, 37, 4038.	3.3	31
14	Coherent oscillations of a levitated birefringent microsphere in vacuum driven by nonconservative rotation-translation coupling. Science Advances, 2020, 6, eaaz9858.	10.3	30
15	Thermal motion of a holographically trapped SPM-like probe. Nanotechnology, 2009, 20, 395710.	2.6	28
16	Optical trapping of microrods: variation with size and refractive index. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 850.	1.5	26
17	Stochastic dynamics of optically bound matter levitated in vacuum. Optica, 2021, 8, 220.	9.3	24
18	Stochastic Hopf bifurcations in vacuum optical tweezers. Physical Review A, 2021, 104, .	2.5	7

#	Article	IF	CITATIONS
19	Entropy Production in an Elementary, Light Driven Micro-Machine. Frontiers in Physics, 2020, 8, .	2.1	2
20	Optically bound matter levitated in vacuum. , 2021, , .		0