

Benjamin A Stickler

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

917
citations

430874

18
h-index

454955

30
g-index

40
all docs

40
docs citations

40
times ranked

555
citing authors

#	ARTICLE	IF	CITATIONS
1	Full rotational control of levitated silicon nanorods. <i>Optica</i> , 2017, 4, 356.	9.3	105
2	Optically driven ultra-stable nanomechanical rotor. <i>Nature Communications</i> , 2017, 8, 1670.	12.8	83
3	Probing macroscopic quantum superpositions with nanorotors. <i>New Journal of Physics</i> , 2018, 20, 122001.	2.9	66
4	Cavity-Assisted Manipulation of Freely Rotating Silicon Nanorods in High Vacuum. <i>Nano Letters</i> , 2015, 15, 5604-5608.	9.1	62
5	Rotranslational cavity cooling of dielectric rods and disks. <i>Physical Review A</i> , 2016, 94, .	2.5	48
6	Quantum rotations of nanoparticles. <i>Nature Reviews Physics</i> , 2021, 3, 589-597.	26.6	44
7	Spatio-orientational decoherence of nanoparticles. <i>Physical Review A</i> , 2016, 94, .	2.5	39
8	Rotational Friction and Diffusion of Quantum Rotors. <i>Physical Review Letters</i> , 2018, 121, 040401.	7.8	36
9	Levitated electromechanics: all-electrical cooling of charged nano- and micro-particles. <i>Quantum Science and Technology</i> , 2019, 4, 024003.	5.8	35
10	Quantum experiments with microscale particles. <i>Contemporary Physics</i> , 2020, 61, 155-168.	1.8	33
11	Gas-induced friction and diffusion of rigid rotors. <i>Physical Review E</i> , 2018, 97, 052112.	2.1	30
12	Cooling Nanorotors by Elliptic Coherent Scattering. <i>Physical Review Letters</i> , 2021, 126, 163603.	7.8	29
13	Collapse-induced orientational localization of rigid rotors [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, C1.	2.1	28
14	Molecular rotations in matter-wave interferometry. <i>Physical Review A</i> , 2015, 92, .	2.5	22
15	Quantum angular momentum diffusion of rigid bodies. <i>New Journal of Physics</i> , 2017, 19, 122001.	2.9	22
16	Quantum electromechanics with levitated nanoparticles. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	22
17	Entangling levitated nanoparticles by coherent scattering. <i>Physical Review A</i> , 2020, 101, .	2.5	21
18	Impact of energy alignment and morphology on the efficiency in inorganic-organic hybrid solar cells. <i>Organic Electronics</i> , 2010, 11, 1999-2011.	2.6	20

#	ARTICLE	IF	CITATIONS
19	Quantum Persistent Tennis Racket Dynamics of Nanorotors. <i>Physical Review Letters</i> , 2020, 125, 053604.	7.8	18
20	Macroscopicity of quantum mechanical superposition tests via hypothesis falsification. <i>Physical Review A</i> , 2019, 100, .	2.5	16
21	Theory of nanoparticle cooling by elliptic coherent scattering. <i>Physical Review A</i> , 2021, 103, .	2.5	14
22	Bragg Diffraction of Large Organic Molecules. <i>Physical Review Letters</i> , 2020, 125, 033604.	7.8	13
23	Rotational Alignment Decay and Decoherence of Molecular Superrotors. <i>Physical Review Letters</i> , 2018, 121, 243402.	7.8	12
24	Collisional decoherence of polar molecules. <i>Physical Review A</i> , 2016, 93, .	2.5	11
25	Quantum reflection and interference of matter waves from periodically doped surfaces. <i>Physical Review A</i> , 2015, 91, .	2.5	10
26	Enantiomer Superpositions from Matter-Wave Interference of Chiral Molecules. <i>Physical Review X</i> , 2021, 11, .	8.9	9
27	Electrically controlled quantum reflection. <i>Physical Review A</i> , 2017, 95, .	2.5	8
28	Conformer Selection by Matter-Wave Interference. <i>Physical Review Letters</i> , 2018, 121, 173002.	7.8	8
29	On the role of the electric dipole moment in the diffraction of biomolecules at nanomechanical gratings. <i>Fortschritte Der Physik</i> , 2017, 65, 1600025.	4.4	7
30	Concepts for long-baseline high-mass matter-wave interferometry. <i>Physica Scripta</i> , 2019, 94, 034001.	2.5	7
31	Electric trapping and circuit cooling of charged nanorotors. <i>New Journal of Physics</i> , 2021, 23, 093001.	2.9	6
32	Orbital angular momentum interference of trapped matter waves. <i>Physical Review Research</i> , 2020, 2, .	3.6	6
33	New avenues for matter-wave-enhanced spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 3.	2.2	5
34	Torque-free manipulation of nanoparticle rotations via embedded spins. <i>Physical Review B</i> , 2021, 104, .	3.2	3
35	Interferometric control of nanorotor alignment. <i>Physical Review A</i> , 2022, 105, .	2.5	2
36	Talbot self-imaging and two-photon interference in ring-core fibers. <i>Physical Review A</i> , 2021, 104, .	2.5	2

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37	New Avenues for Matter-Wave-Enhanced Spectroscopy. , 2018, , 21-34.		1
38	Derivation of a linear collision operator for the spinorial Wigner equation and its semiclassical limit. Physical Review A, 2013, 88, .	2.5	0