

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	Interferometric control of nanorotor alignment. <i>Physical Review A</i> , 2022, 105, .	2.5	2
2	Theory of nanoparticle cooling by elliptic coherent scattering. <i>Physical Review A</i> , 2021, 103, .	2.5	14
3	Cooling Nanorotors by Elliptic Coherent Scattering. <i>Physical Review Letters</i> , 2021, 126, 163603.	7.8	29
4	Quantum rotations of nanoparticles. <i>Nature Reviews Physics</i> , 2021, 3, 589-597.	26.6	44
5	Enantiomer Superpositions from Matter-Wave Interference of Chiral Molecules. <i>Physical Review X</i> , 2021, 11, .	8.9	9
6	Electric trapping and circuit cooling of charged nanorotors. <i>New Journal of Physics</i> , 2021, 23, 093001.	2.9	6
7	Torque-free manipulation of nanoparticle rotations via embedded spins. <i>Physical Review B</i> , 2021, 104, .	3.2	3
8	Talbot self-imaging and two-photon interference in ring-core fibers. <i>Physical Review A</i> , 2021, 104, .	2.5	2
9	Bragg Diffraction of Large Organic Molecules. <i>Physical Review Letters</i> , 2020, 125, 033604.	7.8	13
10	Quantum Persistent Tennis Racket Dynamics of Nanorotors. <i>Physical Review Letters</i> , 2020, 125, 053604.	7.8	18
11	Quantum electromechanics with levitated nanoparticles. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	22
12	Quantum experiments with microscale particles. <i>Contemporary Physics</i> , 2020, 61, 155-168.	1.8	33
13	Entangling levitated nanoparticles by coherent scattering. <i>Physical Review A</i> , 2020, 101, .	2.5	21
14	Orbital angular momentum interference of trapped matter waves. <i>Physical Review Research</i> , 2020, 2, .	3.6	6
15	Macroscopicity of quantum mechanical superposition tests via hypothesis falsification. <i>Physical Review A</i> , 2019, 100, .	2.5	16
16	Levitated electromechanics: all-electrical cooling of charged nano- and micro-particles. <i>Quantum Science and Technology</i> , 2019, 4, 024003.	5.8	35
17	Concepts for long-baseline high-mass matter-wave interferometry. <i>Physica Scripta</i> , 2019, 94, 034001.	2.5	7
18	New Avenues for Matter-Wave-Enhanced Spectroscopy. , 2018, , 21-34.		1

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19	Probing macroscopic quantum superpositions with nanorotors. <i>New Journal of Physics</i> , 2018, 20, 122001.	2.9	66
20	Rotational Alignment Decay and Decoherence of Molecular Superrotors. <i>Physical Review Letters</i> , 2018, 121, 243402.	7.8	12
21	Conformer Selection by Matter-Wave Interference. <i>Physical Review Letters</i> , 2018, 121, 173002.	7.8	8
22	Rotational Friction and Diffusion of Quantum Rotors. <i>Physical Review Letters</i> , 2018, 121, 040401.	7.8	36
23	Gas-induced friction and diffusion of rigid rotors. <i>Physical Review E</i> , 2018, 97, 052112.	2.1	30
24	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
25	Electrically controlled quantum reflection. <i>Physical Review A</i> , 2017, 95, .	2.5	8
26	Optically driven ultra-stable nanomechanical rotor. <i>Nature Communications</i> , 2017, 8, 1670.	12.8	83
27	Quantum angular momentum diffusion of rigid bodies. <i>New Journal of Physics</i> , 2017, 19, 122001.	2.9	22
28	New avenues for matter-wave-enhanced spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 3.	2.2	5
29	Full rotational control of levitated silicon nanorods. <i>Optica</i> , 2017, 4, 356.	9.3	105
30	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
31	Spatio-orientational decoherence of nanoparticles. <i>Physical Review A</i> , 2016, 94, .	2.5	39
32	Rotational cavity cooling of dielectric rods and disks. <i>Physical Review A</i> , 2016, 94, .	2.5	48
33	Collisional decoherence of polar molecules. <i>Physical Review A</i> , 2016, 93, .	2.5	11
34	Molecular rotations in matter-wave interferometry. <i>Physical Review A</i> , 2015, 92, .	2.5	22
35	Quantum reflection and interference of matter waves from periodically doped surfaces. <i>Physical Review A</i> , 2015, 91, .	2.5	10
36	Cavity-Assisted Manipulation of Freely Rotating Silicon Nanorods in High Vacuum. <i>Nano Letters</i> , 2015, 15, 5604-5608.	9.1	62

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37	Derivation of a linear collision operator for the spinorial Wigner equation and its semiclassical limit. Physical Review A, 2013, 88, .	2.5	0
38	Impact of energy alignment and morphology on the efficiency in inorganic-organic hybrid solar cells. Organic Electronics, 2010, 11, 1999-2011.	2.6	20