Yehuda B Band

List of Publications by Year
in descending order

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43 papers	874 citations	687363 13 h-index	477307 29 g-index
43 all docs	43 docs citations	43 times ranked	653 citing authors

#	Article	IF	Citations
1	Atoms in a spin dependent optical potential: ground state topology and magnetization. New Journal of Physics, 2022, 24, 033041.	2.9	0
2	Tuning the adiabaticity of spin dynamics in diamond nitrogen vacancy centers. Journal of Physics Condensed Matter, 2022, , .	1.8	1
3	Gravity Probe Spin: Prospects for measuring general-relativistic precession of intrinsic spin using a ferromagnetic gyroscope. Physical Review D, 2021, 103, .	4.7	18
4	Chiral tunneling in single-layer graphene with Rashba spin-orbit coupling: Spin currents. Physical Review B, 2021, 103, .	3.2	5
5	Chiral Bloch states in single-layer graphene with Rashba spin-orbit coupling: Equilibrium spin current. Physical Review B, 2021, 104, .	3.2	0
6	Klein bound states in single-layer graphene. Physical Review B, 2020, 102, .	3.2	5
7	Quantum rotor atoms in light beams with orbital angular momentum: Highly accurate rotation sensor. Physical Review A, 2020, 102, .	2.5	0
8	Atoms trapped by a spin-dependent optical lattice potential: Realization of a ground-state quantum rotor. Physical Review A, 2019, 100, .	2.5	4
9	Three-level Landau-Zener dynamics. Physical Review A, 2019, 99, .	2.5	14
10	Partial transposition in a finite-dimensional Hilbert space: physical interpretation, measurement of observables, and entanglement. Quantum Studies: Mathematics and Foundations, 2018, 5, 177-188.	0.9	0
11	Dynamics of a Magnetic Needle Magnetometer: Sensitivity to Landau-Lifshitz-Gilbert Damping. Physical Review Letters, 2018, 121, 160801.	7.8	13
12	Spin-orbit-based device for electron spin polarization. Physical Review B, 2017, 95, .	3.2	10
13	Thermodynamic output of single-atom quantum optical amplifiers and their phase-space fingerprint. Physical Review A, 2017, 95, .	2.5	5
14	The dynamics of two entangled qubits exposed to classical noise: role of spatial and temporal noise correlations. Quantum Information Processing, 2015, 14, 3367-3397.	2.2	17
15	Molecules with an induced dipole moment in a stochastic electric field. Physical Review E, 2013, 88, 042149.	2.1	4
16	Dynamics of an electric dipole moment in a stochastic electric field. Physical Review E, 2013, 88, 022127.	2.1	4
17	Ground state and excitations of a Bose gas: From a harmonic trap to a double well. Physical Review A, 2011, 84, .	2.5	10
18	10.1007/s11490-008-3019-1. , 2010, 18, 308.		0

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19	Collisional shifts in an optical-lattice atomic clock. Laser Physics, 2008, 18, 308-313.	1.2	1
20	Interference of Boseâ^'Einstein Condensates. Journal of Physical Chemistry B, 2008, 112, 16097-16103.	2.6	2
21	Photodissociation of Diatomic Molecules to Open Shell Atoms. Advances in Chemical Physics, 2007, , 1-113.	0.3	53
22	Adiabatic passage through a Feshbach resonance in a degenerate quantum gas. Journal of Modern Optics, 2007, 54, 697-706.	1.3	4
23	Many-body effects on adiabatic passage through Feshbach resonances. Physical Review A, 2006, 73, .	2.5	46
24	Molecule condensate production from an atomic Bose-Einstein condensate via Feshbach scattering in an optical lattice: Gap solitons. Physical Review A, 2006, 74, .	2.5	5
25	Analysis of a magnetically trapped atom clock. Physical Review A, 2006, 74, .	2.5	13
26	Collisional shifts in optical-lattice atom clocks. Physical Review A, 2006, 74, .	2.5	8
27	Partially incoherent gap solitons in Bose-Einstein condensates. Physical Review A, 2006, 74, .	2.5	11
28	Loading Bose-Einstein-condensed atoms into the ground state of an optical lattice. Physical Review A, 2005, 72, .	2.5	6
29	Highly nonlinear dynamics of third-harmonic generation by focused beams. Physical Review A, 2004, 69, .	2.5	12
30	Bose-Einstein condensates in time-dependent light potentials: Adiabatic and nonadiabatic behavior of nonlinear wave equations. Physical Review A, 2002, 65, .	2.5	33
31	Adiabaticity in nonlinear quantum dynamics: Bose-Einstein condensate in a time-varying box. Physical Review A, 2002, 65, .	2.5	25
32	Suppression of elastic scattering loss for slowly colliding Bose-Einstein condensates. Physical Review A, 2001, 64, .	2.5	9
33	Theory of four-wave mixing of matter waves from a Bose-Einstein condensate. Physical Review A, 2000, 62, .	2.5	85
34	Elastic Scattering Loss of Atoms from Colliding Bose-Einstein Condensate Wave Packets. Physical Review Letters, 2000, 84, 5462-5465.	7.8	63
35	Measurement of the Coherence of a Bose-Einstein Condensate. Physical Review Letters, 1999, 83, 3112-3115.	7.8	169
36	Statistics of atomic populations in output coupled wave packets from Bose-Einstein condensates: Four-wave mixing. Physical Review A, 1999, 61, .	2.5	3

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37	Radio-frequency output coupling of the Bose-Einstein condensate for atom lasers. Physical Review A, 1999, 59, 3823-3831.	2.5	31
38	Modified Born-Oppenheimer basis for nonadiabatic coupling: Application to the vibronic spectrum of HD+. Journal of Chemical Physics, 1999, 111, 5808-5823.	3.0	1
39	Hermiticity of the Hamiltonian matrix in a discrete variable representation. Journal of Chemical Physics, 1997, 107, 9079-9084.	3.0	24
40	Full quantum state determination via time dependent spectrum data. Journal of Chemical Physics, 1996, 105, 8463-8466.	3.0	3
41	Multichannel quantum theory for propagation of second order transition amplitudes. Journal of Chemical Physics, 1987, 87, 4762-4778.	3.0	33
42	The generalized Carnot cycle: A working fluid operating in finite time between finite heat sources and sinks. Journal of Chemical Physics, 1983, 78, 4721-4727.	3.0	121
43	Quasiclassical closeâ€coupling approximation: Comparison with experimental Arâ€“HCl differential cross section. Journal of Chemical Physics, 1980, 72, 2881-2883.	3.0	3