

# Yehuda B Band

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Measurement of the Coherence of a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 1999, 83, 3112-3115.  | 7.8 | 169       |
| 2  | The generalized Carnot cycle: A working fluid operating in finite time between finite heat sources and sinks. <i>Journal of Chemical Physics</i> , 1983, 78, 4721-4727.        | 3.0 | 121       |
| 3  | Theory of four-wave mixing of matter waves from a Bose-Einstein condensate. <i>Physical Review A</i> , 2000, 62, .   | 2.5 | 85        |
| 4  | Elastic Scattering Loss of Atoms from Colliding Bose-Einstein Condensate Wave Packets. <i>Physical Review Letters</i> , 2000, 84, 5462-5465.                                   | 7.8 | 63        |
| 5  | Photodissociation of Diatomic Molecules to Open Shell Atoms. <i>Advances in Chemical Physics</i> , 2007, , 1-113.  | 0.3 | 53        |
| 6  | Many-body effects on adiabatic passage through Feshbach resonances. <i>Physical Review A</i> , 2006, 73, .   | 2.5 | 46        |
| 7  | Multichannel quantum theory for propagation of second order transition amplitudes. <i>Journal of Chemical Physics</i> , 1987, 87, 4762-4778.                                   | 3.0 | 33        |
| 8  | Bose-Einstein condensates in time-dependent light potentials: Adiabatic and nonadiabatic behavior of nonlinear wave equations. <i>Physical Review A</i> , 2002, 65, .          | 2.5 | 33        |
| 9  | Radio-frequency output coupling of the Bose-Einstein condensate for atom lasers. <i>Physical Review A</i> , 1999, 59, 3823-3831.   | 2.5 | 31        |
| 10 | Adiabaticity in nonlinear quantum dynamics: Bose-Einstein condensate in a time-varying box. <i>Physical Review A</i> , 2002, 65, .   | 2.5 | 25        |
| 11 | Hermiticity of the Hamiltonian matrix in a discrete variable representation. <i>Journal of Chemical Physics</i> , 1997, 107, 9079-9084.  | 3.0 | 24        |
| 12 | Gravity Probe Spin: Prospects for measuring general-relativistic precession of intrinsic spin using a ferromagnetic gyroscope. <i>Physical Review D</i> , 2021, 103, .         | 4.7 | 18        |
| 13 | The dynamics of two entangled qubits exposed to classical noise: role of spatial and temporal noise correlations. <i>Quantum Information Processing</i> , 2015, 14, 3367-3397. | 2.2 | 17        |
| 14 | Three-level Landau-Zener dynamics. <i>Physical Review A</i> , 2019, 99, .  | 2.5 | 14        |
| 15 | Analysis of a magnetically trapped atom clock. <i>Physical Review A</i> , 2006, 74, .  | 2.5 | 13        |
| 16 | Dynamics of a Magnetic Needle Magnetometer: Sensitivity to Landau-Lifshitz-Gilbert Damping. <i>Physical Review Letters</i> , 2018, 121, 160801.                                | 7.8 | 13        |
| 17 | Highly nonlinear dynamics of third-harmonic generation by focused beams. <i>Physical Review A</i> , 2004, 69, .  | 2.5 | 12        |
| 18 | Partially incoherent gap solitons in Bose-Einstein condensates. <i>Physical Review A</i> , 2006, 74, .   | 2.5 | 11        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Ground state and excitations of a Bose gas: From a harmonic trap to a double well. <i>Physical Review A</i> , 2011, 84, .   | 2.5 | 10        |
| 20 | Spin-orbit-based device for electron spin polarization. <i>Physical Review B</i> , 2017, 95, .  | 3.2 | 10        |
| 21 | Suppression of elastic scattering loss for slowly colliding Bose-Einstein condensates. <i>Physical Review A</i> , 2001, 64, .   | 2.5 | 9         |
| 22 | Collisional shifts in optical-lattice atom clocks. <i>Physical Review A</i> , 2006, 74, .   | 2.5 | 8         |
| 23 | Loading Bose-Einstein-condensed atoms into the ground state of an optical lattice. <i>Physical Review A</i> , 2005, 72, .   | 2.5 | 6         |
| 24 | Molecule condensate production from an atomic Bose-Einstein condensate via Feshbach scattering in an optical lattice: Gap solitons. <i>Physical Review A</i> , 2006, 74, .              | 2.5 | 5         |
| 25 | Thermodynamic output of single-atom quantum optical amplifiers and their phase-space fingerprint. <i>Physical Review A</i> , 2017, 95, .  | 2.5 | 5         |
| 26 | Klein bound states in single-layer graphene. <i>Physical Review B</i> , 2020, 102, .  | 3.2 | 5         |
| 27 | Chiral tunneling in single-layer graphene with Rashba spin-orbit coupling: Spin currents. <i>Physical Review B</i> , 2021, 103, .   | 3.2 | 5         |
| 28 | Adiabatic passage through a Feshbach resonance in a degenerate quantum gas. <i>Journal of Modern Optics</i> , 2007, 54, 697-706.  | 1.3 | 4         |
| 29 | Molecules with an induced dipole moment in a stochastic electric field. <i>Physical Review E</i> , 2013, 88, 042149.  | 2.1 | 4         |
| 30 | Dynamics of an electric dipole moment in a stochastic electric field. <i>Physical Review E</i> , 2013, 88, 022127.  | 2.1 | 4         |
| 31 | Atoms trapped by a spin-dependent optical lattice potential: Realization of a ground-state quantum rotor. <i>Physical Review A</i> , 2019, 100, .                                       | 2.5 | 4         |
| 32 | Quasiclassical close-coupling approximation: Comparison with experimental $\text{Ar}^+\text{HCl}$ differential cross section. <i>Journal of Chemical Physics</i> , 1980, 72, 2881-2883. | 3.0 | 3         |
| 33 | Full quantum state determination via time dependent spectrum data. <i>Journal of Chemical Physics</i> , 1996, 105, 8463-8466.   | 3.0 | 3         |
| 34 | Statistics of atomic populations in output coupled wave packets from Bose-Einstein condensates: Four-wave mixing. <i>Physical Review A</i> , 1999, 61, .                                | 2.5 | 3         |
| 35 | Interference of Bose-Einstein Condensates. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16097-16103.   | 2.6 | 2         |
| 36 | Modified Born-Oppenheimer basis for nonadiabatic coupling: Application to the vibronic spectrum of $\text{HD}^+$ . <i>Journal of Chemical Physics</i> , 1999, 111, 5808-5823.           | 3.0 | 1         |

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|----|---|-----|-----------|
| 37 | Collisional shifts in an optical-lattice atomic clock. <i>Laser Physics</i> , 2008, 18, 308-313.  | 1.2 | 1         |
| 38 | Tuning the adiabaticity of spin dynamics in diamond nitrogen vacancy centers. <i>Journal of Physics Condensed Matter</i> , 2022, , .  | 1.8 | 1         |
| 39 | Partial transposition in a finite-dimensional Hilbert space: physical interpretation, measurement of observables, and entanglement. <i>Quantum Studies: Mathematics and Foundations</i> , 2018, 5, 177-188. | 0.9 | 0         |
| 40 | Chiral Bloch states in single-layer graphene with Rashba spin-orbit coupling: Equilibrium spin current. <i>Physical Review B</i> , 2021, 104, .   | 3.2 | 0         |
| 41 | 10.1007/s11490-008-3019-1. , 2010, 18, 308.   |     | 0         |
| 42 | Quantum rotor atoms in light beams with orbital angular momentum: Highly accurate rotation sensor. <i>Physical Review A</i> , 2020, 102, .  | 2.5 | 0         |
| 43 | Atoms in a spin dependent optical potential: ground state topology and magnetization. <i>New Journal of Physics</i> , 2022, 24, 033041.   | 2.9 | 0         |