# Kazimierz Rzazewski

## List of Publications by Citations



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|---|---|---|---|
| 194 papers | 5,955 citations | 38 h-index | 71 g-index |
| 207 ext. papers | 6,300 ext. citations | 3.4 avg, IF | 5.41 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 194 | Two Cold Atoms in a Harmonic Trap. *Foundations of Physics*, **1998**, 28, 549-559 | 1.2 | 501 |
| 193 | Noise initiation of stimulated Brillouin scattering. *Physical Review A*, **1990**, 42, 5514-5521 | 2.6 | 315 |
| 192 | Bose-Einstein condensation with magnetic dipole-dipole forces. *Physical Review A*, **2000**, 61, | 2.6 | 277 |
| 191 | Confluence of Bound-Free Coherences in Laser-Induced Autoionization. *Physical Review Letters*, **1981**, 47, 408-412 | 7.4 | 224 |
| 190 | Above-threshold ionization. *Physics Reports*, **1991**, 204, 331-383 | 27.7 | 218 |
| 189 | Phase Transitions, Two-Level Atoms, and the A2 Term. *Physical Review Letters*, **1975**, 35, 432-434 | 7.4 | 212 |
| 188 | Measure of electron-electron correlation in atomic physics. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1994**, 27, L503-L508 | 1.3 | 194 |
| 187 | Structure of binary Bose-Einstein condensates. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2000**, 33, 4017-4031 | 1.3 | 174 |
| 186 | Fourth Statistical Ensemble for the Bose-Einstein Condensate. *Physical Review Letters*, **1997**, 79, 1789-1792 | 7.4 | 117 |
| 185 | Stabilization of atoms in superintense laser fields: Is it real?. *Physical Review Letters*, **1991**, 66, 1038-1041 | 7.4 | 116 |
| 184 | Coherent Evolution of Bouncing Bose-Einstein Condensates. *Physical Review Letters*, **1999**, 83, 3577-3580 | 7.4 | 107 |
| 183 | Competition between amplified spontaneous emission and the four-wave-mixing process. *Physical Review A*, **1987**, 35, 1648-1658 | 2.6 | 101 |
| 182 | Photoexcitation of an autoionizing resonance in the presence of off-diagonal relaxation. *Physical Review A*, **1983**, 27, 2026-2042 | 2.6 | 96 |
| 181 | No-go theorem concerning the superradiant phase transition in atomic systems. *Physical Review A*, **1979**, 19, 301-303 | 2.6 | 93 |
| 180 | Fluctuations of Bose-Einstein Condensate. *Physical Review Letters*, **1997**, 78, 2686-2689 | 7.4 | 85 |
| 179 | Multi-mode description of an interacting Bose-Einstein condensate. *Optics Express*, **2001**, 8, 92-8 | 3.3 | 77 |
| 178 | Threshold effects in strong-field photodetachment. *Journal of Physics B: Atomic and Molecular Physics*, **1982**, 15, L661-L667 | | 77 |

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| 177 | Classical fields approximation for bosons at nonzero temperatures. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2007**, 40, R1-R37 | 1.3 | 74 |
| 176 | Dipolar relaxation in an ultra-cold gas of magnetically trapped chromium atoms. *Applied Physics B: Lasers and Optics*, **2003**, 77, 765-772 | 1.9 | 73 |
| 175 | Heisenberg-picture operator perturbation theory. *Physical Review A*, **1975**, 12, 2549-2567 | 2.6 | 70 |
| 174 | Soliton trains in Bose-Fermi mixtures. *Physical Review Letters*, **2004**, 93, 100401 | 7.4 | 69 |
| 173 | Quantum anti-Zeno effect. *Physical Review A*, **2000**, 61, | 2.6 | 66 |
| 172 | Pulse-energy statistics in stimulated Raman scattering. *Optics Letters*, **1982**, 7, 71-3 | 3 | 64 |
| 171 | Multimode dynamics of a coupled ultracold atomic-molecular system. *Physical Review Letters*, **2001**, 86, 1397-401 | 7.4 | 57 |
| 170 | Generation of attosecond pulse trains during the reflection of a very intense laser on a solid surface. *Journal of the Optical Society of America B: Optical Physics*, **1998**, 15, 1904 | 1.7 | 57 |
| 169 | Solitons as the early stage of quasicondensate formation during evaporative cooling. *Physical Review Letters*, **2011**, 106, 135301 | 7.4 | 56 |
| 168 | Thermodynamics of an interacting trapped Bose-Einstein gas in the classical field approximation. *Physical Review A*, **2002**, 66, | 2.6 | 56 |
| 167 | The resonance fluorescence of a two-level system driven by a smooth pulse. *Journal of Physics B: Atomic and Molecular Physics*, **1984**, 17, L509-L513 | | 56 |
| 166 | Semiclassical theory of trapped fermionic dipoles. *Physical Review A*, **2001**, 63, | 2.6 | 51 |
| 165 | Fluctuations of the Weakly Interacting Bose-Einstein Condensate. *Physical Review Letters*, **1999**, 82, 4376-4379 | 7.4 | 51 |
| 164 | Theory of fluorescence spectra induced by short laser pulses. *Journal of the Optical Society of America B: Optical Physics*, **1986**, 3, 22 | 1.7 | 51 |
| 163 | Photon Spectrum in Laser-Induced Autoionization. *Physical Review Letters*, **1983**, 50, 417-420 | 7.4 | 50 |
| 162 | Photon bunching and antibunching in second harmonics generation. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1978**, 66, 275-278 | 2.3 | 48 |
| 161 | Multielectron Dissociative Ionization of Molecules by Intense Laser Radiation. *Physical Review Letters*, **1997**, 78, 191-194 | 7.4 | 42 |
| 160 | Resonance scattering of a short laser pulse on a two-level system: Time-dependent approach. *Physical Review A*, **1985**, 31, 1558-1562 | 2.6 | 40 |

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| 159 | Pairing in a system of a few attractive fermions in a harmonic trap. *Europhysics Letters*, **2015**, 109, 26005 | 1.6 | 38 |
| 158 | Photon generation by time-dependent dielectric: A soluble model. *Physical Review A*, **1997**, 55, 62-66 | 2.6 | 38 |
| 157 | Probing the classical field approximation thermodynamics and decaying vortices. *Journal of Optics B: Quantum and Semiclassical Optics*, **2003**, 5, S96-S102 | | 38 |
| 156 | Spontaneous solitons in the thermal equilibrium of a quasi-1D Bose gas. *Physical Review Letters*, **2012**, 109, 205302 | 7.4 | 37 |
| 155 | High-order optical harmonic generation from solid surfaces **1996**, 63, 499 | | 37 |
| 154 | Stepwise Explosion of Atomic Clusters Induced by a Strong Laser Field. *Physical Review Letters*, **1998**, 80, 1857-1860 | 7.4 | 36 |
| 153 | Ionization of highly excited hydrogen atoms by a circularly polarized microwave field. *Physical Review A*, **1993**, 47, R2468-R2471 | 2.6 | 36 |
| 152 | Resonance fluorescence of an arbitrarily driven two-level atom. *Physical Review A*, **1989**, 40, 3164-3178 | 2.6 | 36 |
| 151 | Quantum multimode model of elastic scattering from Bose-Einstein condensates. *Physical Review Letters*, **2005**, 94, 200401 | 7.4 | 32 |
| 150 | Spontaneous emission of atoms via collisions of Bose-Einstein condensates. *Physical Review A*, **2002**, 65, | 2.6 | 32 |
| 149 | Correlations in atomic systems: diagnosing coherent superpositions. *Physical Review Letters*, **2004**, 92, 200401 | 7.4 | 31 |
| 148 | Three-dimensional-model study of above-threshold photodetachment. *Physical Review A*, **1990**, 41, 6176-6182 | 2.6 | 31 |
| 147 | Laser-induced autoionization in the presence of radiative damping and transverse relaxation. *Physical Review A*, **1983**, 28, 2269-2281 | 2.6 | 31 |
| 146 | Initial value problem and causality of radiating oscillator. *Journal of Physics A*, **1976**, 9, 1159-1170 | | 31 |
| 145 | Wave Packet Dynamics with Bose-Einstein Condensates. *Physical Review Letters*, **1998**, 80, 3899-3902 | 7.4 | 30 |
| 144 | Correlation functions of cold bosons in an optical lattice. *Physical Review A*, **2004**, 70, | 2.6 | 29 |
| 143 | Statistics of stimulated stokes pulse energies in the steady-state regime. *Optics Communications*, **1982**, 43, 451-454 | 2 | 29 |
| 142 | Temperature-dependent Bogoliubov approximation in the classical field approach to weakly interacting Bose gases. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2004**, 37, 2725-2738 | 1.3 | 28 |

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| 141 | Phase fluctuations of a Bose-Einstein condensate in low-dimensional geometry. *Physical Review A*, **2005**, 72, | 2.6 | 28 |
| 140 | Ionization of an excited hydrogen atom by a high-frequency circularly polarized pulsed field. *Physical Review A*, **1994**, 50, 2528-2539 | 2.6 | 28 |
| 139 | Saturation of continuum-continuum transitions in multiphoton absorption. *Physical Review Letters*, **1985**, 54, 1729 | 7.4 | 28 |
| 138 | Dynamics and decoherence of two cold bosons in a one-dimensional harmonic trap. *Physical Review A*, **2010**, 82, | 2.6 | 27 |
| 137 | Mean-field description of dipolar bosons in triple-well potentials. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2012**, 45, 225302 | 1.3 | 27 |
| 136 | Quantum anticentrifugal force. *Physical Review A*, **2001**, 65, | 2.6 | 27 |
| 135 | Influence of Relaxation on Laser-Induced Autoionization. *Physical Review Letters*, **1982**, 49, 693-693 | 7.4 | 27 |
| 134 | Probing the statistical properties of Bose-Einstein condensates with light. *Physical Review A*, **2000**, 61, | 2.6 | 26 |
| 133 | Spontaneous emission from an extended wavepacket. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1992**, 25, L319-L322 | 1.3 | 26 |
| 132 | Anomalies in optical harmonic generation using high-intensity laser radiation. *Physical Review A*, **1990**, 41, 3822-3825 | 2.6 | 26 |
| 131 | Imaging single Rydberg electrons in a Bose-Einstein condensate. *New Journal of Physics*, **2015**, 17, 053046 | 2.9 | 25 |
| 130 | Bose statistics and classical fields. *Physical Review A*, **2009**, 79, | 2.6 | 25 |
| 129 | Semiclassical matrix elements, essential-states models and perturbation theory of above-threshold ionisation. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1989**, 22, 1193-1205 | 1.3 | 25 |
| 128 | Hydrodynamic excitations of trapped dipolar fermions. *Physical Review A*, **2003**, 67, | 2.6 | 24 |
| 127 | Dipolar dark solitons. *New Journal of Physics*, **2015**, 17, 105006 | 2.9 | 23 |
| 126 | Bose-Einstein condensation of two interacting particles. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2001**, 34, 4571-4587 | 1.3 | 23 |
| 125 | One-dimensional Thomas-Fermi model of atoms, molecules, and small clusters exposed to an intense laser field. *Physical Review A*, **1999**, 60, 2285-2295 | 2.6 | 22 |
| 124 | Correspondence between dark solitons and the type II excitations of the Lieb-Liniger model. *Physical Review A*, **2015**, 91, | 2.6 | 21 |

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| 123 | Monte Carlo method, classical fields and Bose statistics. *Optics Communications*, **2010**, 283, 671-675 | 2 | 21 |
| 122 | Thermally induced instability of a doubly quantized vortex in a Bose-Einstein condensate. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2006**, 39, L225-L231 | 1.3 | 21 |
| 121 | Migration of population to higher-angular-momentum Rydberg states through the degenerate Raman coupling. *Physical Review A*, **1986**, 34, 1188-1194 | 2.6 | 20 |
| 120 | Second harmonic generation and statistical properties of light. *Optics Communications*, **1988**, 65, 225-228 | 2 | 20 |
| 119 | Stimulated Raman scattering of colored chaotic light. *Journal of the Optical Society of America B: Optical Physics*, **1984**, 1, 671 | 1.7 | 19 |
| 118 | Ground state of two-component degenerate fermionic gases. *Physical Review A*, **2004**, 69, | 2.6 | 18 |
| 117 | Statistical properties of one-dimensional attractive Bose gas. *Europhysics Letters*, **2011**, 96, 10011 | 1.6 | 17 |
| 116 | Statistical properties of one-dimensional Bose gas. *Physical Review A*, **2011**, 83, | 2.6 | 17 |
| 115 | Comment on "Instability and entanglement of the ground state of the Dicke model". *Physical Review Letters*, **2006**, 96, 089301; author reply 089302 | 7.4 | 17 |
| 114 | Classical-field approximation for cold weakly interacting bosons without free parameters. *Physical Review A*, **2004**, 70, | 2.6 | 17 |
| 113 | Three-dimensional-model study of above-threshold photodetachment in a linearly polarized field. *Physical Review A*, **1991**, 44, 2210-2213 | 2.6 | 17 |
| 112 | Spinor condensate of Rb87 as a dipolar gas. *Physical Review A*, **2010**, 81, | 2.6 | 16 |
| 111 | Simulation of a single collision of two bose-einstein condensates. *Physical Review Letters*, **2006**, 97, 170404 | 7.4 | 16 |
| 110 | Collective radiation by harmonic oscillators. *Journal of Physics A: Mathematical Nuclear and General*, **1974**, 7, 869-880 | | 16 |
| 109 | Revivals in an attractive Bose-Einstein condensate in a double-well potential and their decoherence. *Physical Review A*, **2011**, 83, | 2.6 | 15 |
| 108 | Solitons and vortices in ultracold fermionic gases. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2002**, 35, L315-L321 | 1.3 | 15 |
| 107 | Over-the-barrier ionization of multielectron atoms by intense VUV free-electron laser. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1999**, 32, L1-L4 | 1.3 | 15 |
| 106 | Effects of collisional broadening and radiative recombination on the time dependence of initial-state population of a photoexcited autoionizing atom. *Physical Review A*, **1983**, 28, 3648-3650 | 2.6 | 15 |

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| 105 | Optical generation of solitonlike pulses in a single-component gas of neutral fermionic atoms. *Physical Review A*, **2002**, 66, | 2.6 | 14 |
| 104 | Electromagnetic radiation in a cavity with a time-dependent mirror. *Physical Review A*, **1999**, 60, 886-892 | 2.6 | 14 |
| 103 | Coupling between left- and right-going waves in the initial state of superfluorescence. *Physical Review A*, **1982**, 26, 1510-1515 | 2.6 | 14 |
| 102 | Background atoms and decoherence in optical lattices. *Physical Review A*, **2010**, 81, | 2.6 | 13 |
| 101 | Decay of multiply charged vortices at nonzero temperatures. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2009**, 42, 095301 | 1.3 | 13 |
| 100 | Coherence properties of spinor condensates at finite temperatures. *Physical Review A*, **2007**, 76, | 2.6 | 13 |
| 99 | Classical chaos and its quantum measures in Rydberg states of multielectron atoms. *Physical Review A*, **1995**, 52, 149-156 | 2.6 | 13 |
| 98 | Beyond above-threshold ionization: ionization of an atom by an ultrashort laser pulse above atomic intensity. *Journal of the Optical Society of America B: Optical Physics*, **1990**, 7, 607 | 1.7 | 13 |
| 97 | Angular distribution of photoelectrons in the above-threshold ionization of atomic hydrogen. *Physical Review A*, **1988**, 37, 4194-4200 | 2.6 | 13 |
| 96 | Collective radiation and the near-zone field. *Journal of Physics A*, **1980**, 13, 743-756 | | 13 |
| 95 | Remark on the superradiant phase transition. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1976**, 58, 211-212 | 2.3 | 13 |
| 94 | Ground-state densities of repulsive two-component Fermi gases. *Physical Review A*, **2016**, 93, | 2.6 | 12 |
| 93 | Fluctuations of a weakly interacting Bose-Einstein condensate. *Europhysics Letters*, **2009**, 86, 10002 | 1.6 | 12 |
| 92 | On the stability of Bose–Fermi mixtures. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2005**, 38, L215-L221 | 1.3 | 12 |
| 91 | Appearance intensities for multiply charged ions in a strong laser field. *Physical Review A*, **1995**, 52, 1468-1473 | 2.6 | 12 |
| 90 | Threshold effects in strong-field photodetachment monitored by spontaneous photo-relaxation. *Journal of Physics B: Atomic and Molecular Physics*, **1984**, 17, 729-733 | | 12 |
| 89 | Diffusion in a system of a few distinguishable fermions in a one-dimensional double-well potential. *Europhysics Letters*, **2016**, 113, 56003 | 1.6 | 12 |
| 88 | Constructing a classical field for a Bose-Einstein condensate in an arbitrary trapping potential: Quadrupole oscillations at nonzero temperatures. *Physical Review A*, **2010**, 81, | 2.6 | 11 |

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| 87 | Beyond the moving mirror model: Attosecond pulses from a relativistically moving plasma. *Laser and Particle Beams*, **2000**, 18, 467-475 | 0.9 | 11 |
| 86 | Strongly Correlated Quantum Droplets in Quasi-1D Dipolar Bose Gas. *Physical Review Letters*, **2020**, 124, 090401 | 7.4 | 10 |
| 85 | Unified Description of Dynamics of a Repulsive Two-Component Fermi Gas. *Physical Review Letters*, **2017**, 119, 215303 | 7.4 | 10 |
| 84 | Failure of an atomic-injection model for the description of pump fluctuations in masers and lasers. *Physical Review A*, **1993**, 47, 1564-1567 | 2.6 | 10 |
| 83 | Laser-induced auto-ionization in an inhomogeneously broadened medium. *Optics Communications*, **1983**, 46, 191-194 | 2 | 10 |
| 82 | Thermal solitons as revealed by the static structure factor. *Physical Review A*, **2017**, 95, | 2.6 | 9 |
| 81 | Correlations of a quasi-two-dimensional dipolar ultracold gas at finite temperatures. *Physical Review A*, **2013**, 87, | 2.6 | 9 |
| 80 | Interaction of a multi-electron atom with intense radiation in the VUV range: beyond the conventional model for high harmonic generation. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2001**, 34, L289-L296 | 1.3 | 9 |
| 79 | Multielectron dissociative ionization of molecules by strong femtosecond pulses. *Physical Review A*, **2000**, 61, | 2.6 | 9 |
| 78 | Scattering of atoms on the Bose-Einstein condensate. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1999**, 32, L205-L212 | 1.3 | 9 |
| 77 | Near-threshold ionization of atomic hydrogen. *Physical Review A*, **1987**, 36, 2718-2725 | 2.6 | 9 |
| 76 | Rabi oscillations in a partially coherent field. *Zeitschrift F□ Physik B Condensed Matter and Quanta*, **1980**, 39, 183-185 | | 9 |
| 75 | Two characteristic temperatures for a Bose-Einstein condensate of a finite number of particles. *Physical Review A*, **2003**, 68, | 2.6 | 8 |
| 74 | Quantum fluctuations in parametric down-conversion and their classical stochastic description. *Physical Review A*, **1990**, 42, 6869-6872 | 2.6 | 8 |
| 73 | Splitting of doubly quantized vortices in dilute Bose-Einstein condensates. *Physical Review A*, **2008**, 78, | 2.6 | 7 |
| 72 | Dynamics of a relative superflow between a Bose-Einstein condensate and the thermal cloud. *Physical Review A*, **2006**, 74, | 2.6 | 7 |
| 71 | Comparison of Strong-field Light Scattering Spectra Obtained from the Dipole Correlation Function and the Dipole Expectation Value. *Journal of Modern Optics*, **1992**, 39, 795-806 | 1.1 | 7 |
| 70 | Finite interaction times and laser-bandwidth effects on the photoemission from an autoionizing atom. *Journal of the Optical Society of America B: Optical Physics*, **1984**, 1, 641 | 1.7 | 7 |

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| 69 | Linear-versus-nonlinear regime in macroscopic quantum fluctuations of Stokes pulses. *Physical Review A*, **1985**, 31, 1932-1935 | 2.6 | 7 |
| 68 | Stopped atomic wavepackets generated by interaction with a square-profile laser beam. *Quantum and Semiclassical Optics: Journal of the European Optical Society Part B*, **1996**, 8, 673-686 | | 6 |
| 67 | SFA applied to the nonsequential double ionization of the helium atom by a circularly polarized plane wave. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1996**, 29, 3351-3362 | 1.3 | 6 |
| 66 | Elastic scattering losses in the four-wave mixing of Bose–Einstein condensates. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2004**, 37, L391-L398 | 1.3 | 6 |
| 65 | Classical aspects of quantum localization in microwave ionization of H atoms. *Physical Review A*, **1995**, 52, R2523-R2526 | 2.6 | 6 |
| 64 | Micromaser as a maser without inversion. *Physical Review A*, **1995**, 51, 3267-3273 | 2.6 | 6 |
| 63 | Are Free-free Transitions a Good Basis for Nonlinear Optics?. *Journal of Modern Optics*, **1992**, 39, 2377-2381 | 1.1 | 6 |
| 62 | Noise reduction in a Raman ring-laser driven by a chaotic pump. *Optics Communications*, **1987**, 63, 174-178 | | 6 |
| 61 | Autoionization in a fluctuating electric field. *Journal of the Optical Society of America B: Optical Physics*, **1986**, 3, 891 | 1.7 | 6 |
| 60 | Classical and quantum mechanical resonance fluorescence. *European Physical Journal B*, **1982**, 48, 175-182 | 1.2 | 6 |
| 59 | Two dipolar atoms in a harmonic trap. *Europhysics Letters*, **2016**, 114, 46003 | 1.6 | 5 |
| 58 | Ground state of a two-component dipolar Fermi gas in a harmonic potential. *Physical Review A*, **2013**, 88, | 2.6 | 5 |
| 57 | Free expansion of a Bose–Einstein condensate in the presence of a thermal cloud. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2010**, 43, 105303 | 1.3 | 5 |
| 56 | Spontaneous emission from a trapped atom. *Physical Review A*, **1995**, 52, 1494-1499 | 2.6 | 5 |
| 55 | SFA applied to the one-dimensional two-electron model atom. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1995**, 28, 4413-4419 | 1.3 | 5 |
| 54 | Nonlinear Langevin equations with colored noise and their (harmonic) oscillator representations. *Physical Review A*, **1983**, 28, 474-476 | 2.6 | 5 |
| 53 | On the thermodynamic equivalence of the Dicke maser model and a certain spin system. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1980**, 77, 211-213 | 2.3 | 5 |
| 52 | Equivalence of interaction Hamiltonians in the electric dipole approximation. *Journal of Modern Optics*, **2004**, 51, 1137-1147 | 1.1 | 5 |

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| 51 | Probe-field reflection on a plasma surface driven by a strong electromagnetic field. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2000**, 33, 2549-2558 | 1.3 | 4 |
| 50 | Strong-field driving of a dilute atomic Bose-Einstein condensate. *Physical Review A*, **1998**, 57, 488-492 | 2.6 | 4 |
| 49 | Two-colour Multiphoton Ionization with Flat Continua: Analytical Solution and Numerical Test. *Journal of Modern Optics*, **1991**, 38, 997-1006 | 1.1 | 4 |
| 48 | Lasing from autoionization resonance. *Optics Communications*, **1992**, 92, 266-270 | 2 | 4 |
| 47 | Noise reduction in a Raman ring laser driven by a chaotic pump: numerical approach. *Journal of the Optical Society of America B: Optical Physics*, **1989**, 6, 550 | 1.7 | 4 |
| 46 | Non-linear neural networks with external noise. *Journal of Physics A*, **1987**, 20, 6553-6560 | | 4 |
| 45 | Spectral properties of superfluorescent pulses. *Optics Communications*, **1981**, 39, 194-196 | 2 | 4 |
| 44 | Statistical properties of cold bosons in a ring trap. *Physical Review A*, **2020**, 101, | 2.6 | 3 |
| 43 | Finite temperature oscillations of a Bose-Einstein condensate in a two-gas model. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2001**, 34, 3575-3584 | 1.3 | 3 |
| 42 | Averaging in quantum stochastics: a soluble model with coloured noise. *Journal of Physics A*, **1984**, 17, 1019-1031 | | 3 |
| 41 | Roton in a few-body dipolar system. *New Journal of Physics*, **2018**, 20, 123006 | 2.9 | 3 |
| 40 | A Classical-Field Approach for Bose Gases. *Cold Atoms*, **2013**, 191-202 | | 2 |
| 39 | Science of Extreme Light Infrastructure **2010**, | | 2 |
| 38 | Dynamics of optically generated vortices in a one-component ultracold fermionic gas. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2003**, 36, L69-L75 | 1.3 | 2 |
| 37 | Effects of motional states of a trapped atom on its interaction with nonresonant light. *Physical Review A*, **1998**, 57, 1202-1207 | 2.6 | 2 |
| 36 | Superradiant laser: First-order phase transition and non-stationary regime. *European Physical Journal D*, **1999**, 5, 405-409 | 1.3 | 2 |
| 35 | Multiple ionization of atoms by powerful circularly polarized laser field. *Physical Review Letters*, **1991**, 67, 2276-2278 | 7.4 | 2 |
| 34 | How Good is the Adiabatic Approximation for Strong Field Multiple Ionization?. *Journal of Modern Optics*, **1991**, 38, 1883-1885 | 1.1 | 2 |

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| 33 | Population trapping in laser-induced continuum-continuum transitions. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1989**, 22, 3175-3185 | 1.3 | 2 |
| 32 | Angular photoelectron distributions in above-threshold ionization with bichromatic excitation. *Physical Review A*, **1990**, 42, 6784-6793 | 2.6 | 2 |
| 31 | The Theory of Coherent Atomic Excitation. Bruce W. Shore. In two volumes. Vol. 1, Simple Atoms and Fields. Vol. 2, Multilevel Atoms and Incoherence. Wiley-Interscience, New York, 1990. xxxiv, 1735 pp., illus. $123. *Science*, **1990**, 250, 1603 | 33.3 | 2 |
| 30 | Raman scattering in a ring-cavity linear regime. *Journal of the Optical Society of America B: Optical Physics*, **1988**, 5, 53 | 1.7 | 2 |
| 29 | Thermodynamics of oscillators interacting with radiation. *Journal of Physics A*, **1979**, 12, 2151-2156 | | 2 |
| 28 | Bose-Einstein correlations and determination of fireball dimension in hadron collisions. *Physical Review D*, **1978**, 18, 4308-4312 | 4.9 | 2 |
| 27 | Statistical Physics of Bose-Einstein Condensation. *Acta Physica Polonica A*, **2001**, 100, 7-28 | 0.6 | 2 |
| 26 | Making two dysprosium atoms rotate Einstein-de Haas effect revisited. *Europhysics Letters*, **2016**, 116, 26004 | 1.6 | 2 |
| 25 | Condensate losses and oscillations induced by Rydberg atoms. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2017**, 50, 055003 | 1.3 | 1 |
| 24 | Electric dipoles vs. magnetic dipoles For two molecules in a harmonic trap. *Europhysics Letters*, **2017**, 118, 66002 | 1.6 | 1 |
| 23 | Classical fields and quantum measurement for BoseEinstein condensate. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2015**, 48, 035303 | 1.3 | 1 |
| 22 | Resonance fluorescence of an extended atomic wave packet. *Physical Review A*, **1997**, 55, 4386-4396 | 2.6 | 1 |
| 21 | Stopped reflection of an atomic wavepacket by a laser beam with an evanescent profile. *Optics Communications*, **1998**, 148, 376-382 | 2 | 1 |
| 20 | How should the dynamics of an interacting degenerate Bose gas be described?. *Journal of Modern Optics*, **2002**, 49, 2039-2044 | 1.1 | 1 |
| 19 | On a model for multiphoton excitation of molecules in a strong laser field. *Journal of Physics B: Atomic and Molecular Physics*, **1982**, 15, L903-L907 | | 1 |
| 18 | Fermionic quantum carpets: From canals and ridges to solitonlike structures. *Physical Review Research*, **2020**, 2, | 3.9 | 1 |
| 17 | Collective oscillations of a two-component Fermi gas on the repulsive branch. *SciPost Physics*, **2020**, 8, | 6.1 | 1 |
| 16 | Breathing Mode of a Bose-Einstein Condensate Immersed in a Fermi Sea. *Physical Review Letters*, **2020**, 125, 103401 | 7.4 | 1 |

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| 15 | Diagnosing a two-body state of ultracold atoms with light. *Europhysics Letters*, **2017**, 119, 46002 | 1.6 |
| 14 | Quasicondensation reexamined. *Journal of Physics: Conference Series*, **2013**, 414, 012031 | 0.3 |
| 13 | Statistics of the population difference for cold fermions in a double well potential. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2012**, 45, 205302 | 1.3 |
| 12 | Statistics of population difference for cold bosons in a double-well potential. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2012**, 45, 085304 | 1.3 |
| 11 | Atomic wave packet in a ring cavity. *Physical Review A*, **1997**, 55, 2254-2266 | 2.6 |
| 10 | Non-self-similar modes of vibration of a Bose-Einstein condensate. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1999**, 32, L271-L278 | 1.3 |
| 9 | Multiple reflection of an extended atomic wave packet through a square-profile laser beam. *Physical Review A*, **1996**, 53, 4260-4267 | 2.6 |
| 8 | Generalisation of Fermi's golden rule for the strong bound-free transitions. *Journal of Physics A*, **1989**, 22, 4163-4169 | |
| 7 | Collisionally induced configuration mixing: soluble model with continuous spectrum. *Journal of the Optical Society of America B: Optical Physics*, **1988**, 5, 2289 | 1.7 |
| 6 | Chirped pulses and squeezing in parametric down-conversion. *Physical Review A*, **1988**, 37, 1366-1367 | 2.6 |
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