

Oleg P Sushkov

List of Publications by Year in descending order

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249
papers

5,930
citations

66234

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106150

65
g-index

251
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251
docs citations

251
times ranked

2870
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Correlated physics in an artificial triangular anti-dot lattice. <i>Physical Review B</i> , 2022, 105, . | 1.1 | 3 |
| 2 | Nonlinear Quantum Electrodynamics in Dirac Materials. <i>Physical Review Letters</i> , 2022, 128, 066402. | 2.9 | 9 |
| 3 | Coulomb interactions and renormalization of semi-Dirac fermions near a topological Lifshitz transition. <i>Physical Review B</i> , 2021, 103, . | 1.1 | 5 |
| 4 | Near-Field Excited Archimedean-like Tiling Patterns in Phonon-Polaritonic Crystals. <i>ACS Nano</i> , 2021, 15, 9134-9142. | 7.3 | 21 |
| 5 | Geometric Control of Universal Hydrodynamic Flow in a Two-Dimensional Electron Fluid. <i>Physical Review X</i> , 2021, 11, . | 2.8 | 29 |
| 6 | Electrical control of the g tensor of the first hole in a silicon MOS quantum dot. <i>Physical Review B</i> , 2021, 104, . | 1.1 | 23 |
| 7 | Anomalous transition magnetic moments in two-dimensional Dirac materials. <i>Physical Review B</i> , 2020, 102, . | 1.1 | 1 |
| 8 | Colossal quasiparticle radiation in the Lifshitz spin liquid phase of a two-dimensional quantum antiferromagnet. <i>Physical Review B</i> , 2020, 101, . | 1.1 | 2 |
| 9 | Bose-Einstein condensation of deconfined spinons in two dimensions. <i>Physical Review B</i> , 2020, 101, . | 1.1 | 3 |
| 10 | Anomalous thermal broadening from an infrared catastrophe in two-dimensional quantum antiferromagnets. <i>Physical Review B</i> , 2020, 101, . | 1.1 | 2 |
| 11 | Artificial graphene in a strong magnetic field: Bulk current distribution and quantum phase transitions. <i>Physical Review B</i> , 2020, 101, . | 1.1 | 1 |
| 12 | Quantum Lifshitz criticality in a frustrated two-dimensional XY model. <i>Physical Review B</i> , 2020, 101, . | 1.1 | 2 |
| 13 | Scaling, rotation, and channeling behavior of helical and skyrmion spin textures in thin films of Te-doped Cu_2OSeO_3 . <i>Science Advances</i> , 2020, 6, eaax2138. | 4.7 | 19 |
| 14 | Superconductivity from collective excitations in magic-angle twisted bilayer graphene. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 33 |
| 15 | Spectral damping without quasiparticle decay: The dynamic structure factor of two-dimensional quantum Heisenberg antiferromagnets. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 1 |
| 16 | Simulation of the Quantum Hall Effect in Samples with Weak Long-Range Disorder. <i>JETP Letters</i> , 2020, 112, 186-192. | 0.4 | 2 |
| 17 | Effect of surface charge self-organization on gate-induced 2D electron and hole systems. <i>Modern Electronic Materials</i> , 2020, 6, 101-106. | 0.2 | 0 |
| 18 | The effect of surface charge self-organization on gate-induced electron and hole two-dimensional systems. <i>Izvestiya Vysshikh Uchebnykh Zavedenii Materialy Elektronnoi Tekhniki = Materials of Electronics Engineering</i> , 2020, 23, 142-150. | 0.1 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | The sound of black holes fusing. Nature Physics, 2019, 15, 1206-1206. | 6.5 | 0 |
| 20 | Gauge-phonon dominated resistivity in twisted bilayer graphene near magic angle. Physical Review B, 2019, 99, . | 1.1 | 30 |
| 21 | Measuring hole g -factor anisotropies using transverse magnetic focusing. Physical Review B, 2019, 99, . | 1.1 | 5 |
| 22 | Tuning the topological insulator states of artificial graphene. Physical Review B, 2019, 99, . | 1.1 | 8 |
| 23 | Prediction of the spin triplet two-electron quantum dots in Si: Towards controlled quantum simulations of magnetic systems. Physical Review B, 2019, 100, . | 1.1 | 3 |
| 24 | Origin of hour-glass magnetic dispersion in underdoped cuprate superconductors. Physical Review B, 2019, 100, . | 1.1 | 3 |
| 25 | Nature of the spin liquid in underdoped cuprate superconductors. Physical Review B, 2018, 98, . | 1.1 | 5 |
| 26 | Properties of the spin-liquid phase in the vicinity of the Lifshitz transition from Néel to spin-spiral state in frustrated magnets. Physical Review B, 2018, 98, . | 1.1 | 5 |
| 27 | Interference in spin-orbit coupled transverse magnetic focusing: Emergent phase due to in-plane magnetic fields. Physical Review B, 2018, 98, . | 1.1 | 3 |
| 28 | Electrical Control of the Zeeman Spin Splitting in Two-Dimensional Hole Systems. Physical Review Letters, 2018, 121, 077701. | 2.9 | 27 |
| 29 | Dimensional reduction of the Luttinger Hamiltonian and g -factors of holes in symmetric two-dimensional semiconductor heterostructures. Physical Review B, 2017, 95, . | 1.1 | 23 |
| 30 | Multiple universalities in order-disorder magnetic phase transitions. Physical Review B, 2017, 95, . | 1.1 | 8 |
| 31 | Mechanisms for Strong Anisotropy of In-Plane g -Factors in Hole Based Quantum Point Contacts. Physical Review Letters, 2017, 119, 116803. | 2.9 | 18 |
| 32 | Nonequilibrium quantum mechanics: A "hot quantum soup" of paramagnons. Physical Review B, 2017, 95, . | 1.1 | 13 |
| 33 | Detection and Control of Spin-Orbit Interactions in a GaAs Hole Quantum Point Contact. Physical Review Letters, 2017, 118, 146801. | 2.9 | 18 |
| 34 | Two-dimensional topological semimetal state in a nanopatterned semiconductor system. Physical Review B, 2017, 96, . | 1.1 | 6 |
| 35 | Unifying static and dynamic properties in three-dimensional quantum antiferromagnets. Physical Review B, 2017, 96, . | 1.1 | 4 |
| 36 | Bound States of Skyrmions and Merons near the Lifshitz Point. Physical Review Letters, 2017, 119, 207201. | 2.9 | 91 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Interference effects and Huygens principle in transverse magnetic focusing of electrons and holes. Physical Review B, 2017, 96, . | 1.1 | 6 |
| 38 | Chern insulating state in laterally patterned semiconductor heterostructures. Physical Review B, 2016, 94, . | 1.1 | 6 |
| 39 | G-factors of hole bound states in spherically symmetric potentials in cubic semiconductors. European Physical Journal B, 2016, 89, 1. | 0.6 | 0 |
| 40 | Electrical control of the sign of the g -factor in a GaAs hole quantum point contact. Physical Review B, 2016, 94, . | 1.1 | 12 |
| 41 | Manifestation of a non-Abelian Berry phase in a p -type semiconductor system. Physical Review B, 2016, 93, . | 1.1 | 14 |
| 42 | Semiclassical Landau quantization of spin-orbit coupled systems. Physical Review B, 2016, 93, . | 1.1 | 2 |
| 43 | Publisher's Note: Manifestation of a non-Abelian Berry phase in a p -type semiconductor system [Phys. Rev. B 93, 205424 (2016)]. Physical Review B, 2016, 93, . | 1.1 | 0 |
| 44 | Enhancement Mechanism of the Electron g -Factor in Quantum Point Contacts. Physical Review Letters, 2016, 116, 126801. | 2.9 | 3 |
| 45 | The amplitudes and the structure of the charge density wave in YBCO. Scientific Reports, 2016, 6, 34551. | 1.6 | 16 |
| 46 | Publisher's Note: Electrical control of the sign of the g -factor in a GaAs hole quantum point contact [Phys. Rev. B 94, 041406(R) (2016)]. Physical Review B, 2016, 94, . | 1.1 | 0 |
| 47 | Casimir effect mechanism of pairing between fermions in the vicinity of a magnetic quantum critical point. Physical Review B, 2015, 91, . | 1.1 | 0 |
| 48 | Asymptotic freedom in quantum magnets. Physical Review B, 2015, 92, . | 1.1 | 23 |
| 49 | Magnetic focusing of electrons and holes in the presence of spin-orbit interactions. Physical Review B, 2015, 92, . | 1.1 | 11 |
| 50 | Impurity-induced magnetization in a three-dimensional antiferromagnet at the quantum critical point. Physical Review B, 2015, 92, . | 1.1 | 0 |
| 51 | Violation of the Spin-Statistics Theorem and the Bose-Einstein Condensation of Particles with Half-Integer Spin. Physical Review Letters, 2015, 114, 055702. | 2.9 | 6 |
| 52 | Effects of Coulomb screening and disorder on an artificial graphene based on nanopatterned semiconductor. 2D Materials, 2015, 2, 014010. | 2.0 | 21 |
| 53 | Magnetic excitations in the spin-spiral state of TbMnO_3 and DyMnO_3 . Physical Review B, 2015, 91, . | 1.1 | 0 |
| 54 | Transmission phase of an electron in a quantum point contact. Physical Review B, 2014, 90, . | 1.1 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Origin of the Phonon Hall Effect in Rare-Earth Garnets. Physical Review Letters, 2014, 113, 265901. | 2.9 | 53 |
| 56 | The long and the short of it. Nature Physics, 2014, 10, 339-340. | 6.5 | 7 |
| 57 | Distribution of electrons and holes in cuprate superconductors as determined from ^{17}O and ^{63}Cu nuclear magnetic resonance. Physical Review B, 2014, 90, . | 1.1 | 35 |
| 58 | Interacting spin droplets and magnetic properties of a low-density two-dimensional electron gas. Physical Review B, 2013, 88, . | 1.1 | 7 |
| 59 | Topological Insulating States in Laterally Patterned Ordinary Semiconductors. Physical Review Letters, 2013, 110, 186601. | 2.9 | 39 |
| 60 | Investigating the nuclear Schiff moment of ^{207}Pb in ferroelectric PbTiO_3 . Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 085001. | 0.6 | 9 |
| 61 | Implications of resonant inelastic x-ray scattering data for theoretical models of cuprates. Physical Review B, 2013, 88, . | 1.1 | 15 |
| 62 | One-dimensional spin-orbit interferometer. Physical Review B, 2013, 87, . | 1.1 | 3 |
| 63 | Fermi surface reconstruction by dynamic magnetic fluctuations and spin-charge separation near an $\langle \mathbf{t} \cdot \mathbf{O} \rangle$ critical point. Physical Review B, 2013, 87, . | 1.1 | 5 |
| 64 | Relativistic effects in scattering of polarized electrons. Europhysics Letters, 2013, 103, 47003. | 0.7 | 8 |
| 65 | Effective approach to the Nagaoka regime of the two-dimensional $\langle \mathbf{t} \cdot \mathbf{J} \rangle$ model. Physical Review B, 2012, 85, . | 1.1 | 9 |
| 66 | Universal finite-temperature properties of a three-dimensional quantum antiferromagnet in the vicinity of a quantum critical point. Physical Review B, 2012, 85, . | 1.1 | 16 |
| 67 | Fermi Surface Reconstruction by Dynamic Magnetic Fluctuations. Physical Review Letters, 2012, 109, 037001. | 2.9 | 7 |
| 68 | Thermodynamics of a Gas of Deconfined Bosonic Spinons in Two Dimensions. Physical Review Letters, 2011, 106, 207203. | 2.9 | 27 |
| 69 | Magnetic properties of lightly doped antiferromagnetic $\text{YBa}_2\text{Cu}_3\text{O}_y$. Physical Review B, 2011, 84, . | 1.1 | 8 |
| 70 | Three-dimensional generalization of the J_1 - J_2 Heisenberg model on a square lattice and role of the interlayer coupling J_c . Physical Review B, 2011, 83, . | 1.1 | 24 |
| 71 | Self-consistent spin-wave theory for a frustrated Heisenberg model with biquadratic exchange in the columnar phase and its application to iron pnictides. Physical Review B, 2011, 84, . | 1.1 | 43 |
| 72 | Enhancement of the electron electric dipole moment in Eu^{2+} . Physical Review A, 2011, 84, . | 1.0 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | YBa ₂ Cu ₃ O _{7-x} solved photoemission spectral function in lightly doped and antiferromagnetically ordered Physical Review B, 2011, 84, . | 1.1 | 7 |
| 74 | Effective field theories and spin-wave excitations in helical magnets. Physical Review B, 2011, 84, . Bulk and surface nanoscale hole density inhomogeneity in HgBa ₂ Cu ₃ O _{7-x} | 1.1 | 5 |
| 75 | Width of the longitudinal magnon in the vicinity of the O(3) quantum critical point. Physical Review B, 2011, 84, . | 1.1 | 6 |
| 76 | Quasielastic neutron scattering from two-dimensional antiferromagnets at a finite temperature. Physical Review B, 2011, 83, . | 1.1 | 34 |
| 77 | Phonon mode softening at the ferroelectric transition in Eu _{0.5} Ba _{0.5} TiO ₃ . Hyperfine Interactions, 2010, 198, 1-4. | 1.1 | 4 |
| 78 | Ground-plane screening of Coulomb interactions by a nearby two-dimensional system. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1228-1231. | 0.2 | 7 |
| 79 | Comment on "Vibrational quantum interferometers and gravitational waves". Physical Review A, 2010, 81, . | 1.3 | 0 |
| 80 | Magnetic quantum oscillations and multiple holon pockets in the underdoped cuprate YBa ₂ Cu ₃ O _{6+y} . Physical Review B, 2010, 82, . | 1.0 | 0 |
| 81 | Pnictides as frustrated quantum antiferromagnets close to a quantum phase transition. Physical Review B, 2009, 79, . | 1.1 | 4 |
| 82 | Spin-wave velocities, density of magnetic excitations, and NMR relaxation in iron pnictides. Physical Review B, 2009, 80, . | 1.1 | 63 |
| 83 | Ground-plane screening of Coulomb interactions in two-dimensional systems: How effectively can one two-dimensional system screen interactions in another. Physical Review B, 2009, 80, . | 1.1 | 16 |
| 84 | Coulomb disorder effects on angle-resolved photoemission and nuclear quadrupole resonance spectra in cuprates. Physical Review B, 2009, 80, . | 1.1 | 13 |
| 85 | Binding of a mobile hole by an impurity potential in the t ² J model: Parity breaking. Physical Review B, 2009, 80, . | 1.1 | 22 |
| 86 | Spin spirals in underdoped La _{2-x} CuO ₄ . Physical Review B, 2009, 79, . | 1.1 | 2 |
| 87 | Physics of $\tilde{\epsilon}$ -meson condensation and high temperature cuprate superconductors. Physics of Atomic Nuclei, 2009, 72, 1340-1345. | 1.1 | 0 |
| 88 | Localization-delocalization transition of a polaron near an impurity. Physical Review B, 2009, 79, . | 0.1 | 0 |
| 89 | Spirals in the t ² J model and structure of the spin-glass state of. Journal of Physics and Chemistry of Solids, 2008, 69, 3115-3117. | 1.1 | 29 |
| 90 | | 1.9 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Correlated electron current and temperature dependence of the conductance of a quantum point contact. European Physical Journal B, 2008, 61, 427-432. | 0.6 | 20 |
| 92 | Electron correlations and the conductance of a quantum point contact at finite temperature. AIP Conference Proceedings, 2008, . | 0.3 | 0 |
| 93 | Spin stiffness of the anisotropic Heisenberg model on the square lattice and a possible mechanism for pinning of the electronic liquid crystal direction in underdoped YBa_2CuO_4 . Physical Review B, 2008, 78, . | 1.1 | 12 |
| 94 | Diagonal charge-density-wave state in the insulating spin-glass phase of $La_{2-x}Sr_xCuO_4$. Physical Review B, 2008, 77, . | 1.1 | 0 |
| 95 | Screening of Coulomb Impurities in Graphene. Physical Review Letters, 2008, 100, 076803. | 2.9 | 94 |
| 96 | Effective action, magnetic excitations, and quantum fluctuations in lightly doped single-layer cuprates. Physical Review B, 2008, 78, . | 1.1 | 19 |
| 97 | ac hopping magnetotransport across the spin-flop transition in lightly doped $La_{2-x}Sr_xCuO_4$. Physical Review B, 2008, 77, . | 1.1 | 0 |
| 98 | Anisotropies in insulating $La_{2-x}Sr_xCuO_4$: Angle-resolved photoemission and optical absorption. Physical Review B, 2008, 77, . | 1.1 | 5 |
| 99 | Negative hopping magnetoresistance and dimensional crossover in lightly doped cuprate superconductors. Physical Review B, 2007, 76, . | 1.1 | 11 |
| 100 | Quantum chaos and fluctuations in isolated nuclear-spin systems. Physical Review E, 2007, 75, 016204. | 0.8 | 2 |
| 101 | Structure of the Spin-Glass State of $La_{2-x}Sr_xCuO_4$: The Spiral Theory. Physical Review Letters, 2007, 98, 037001. | 2.9 | 36 |
| 102 | Effective action of the weakly doped t - J model and spin-wave excitations in the spin-glass phase of $La_{2-x}Sr_xCuO_4$. Physical Review B, 2007, 75, . | 1.1 | 8 |
| 103 | Hartree-Fock studies of quantum dots and the 0.7 anomaly. Surface Science, 2007, 601, 5788-5793. | 0.8 | 2 |
| 104 | NMR Manifestations of Nuclear Anapole Moments. Journal of Superconductivity and Novel Magnetism, 2007, 20, 193-196. | 0.8 | 0 |
| 105 | J_1 - J_2 model: First-order phase transition versus deconfinement of spinons. Physical Review B, 2006, 73, . | 1.1 | 109 |
| 106 | Stability of the spiral phase and superconductivity in the two-dimensional t - J model. Journal of Physics and Chemistry of Solids, 2006, 67, 99-102. | 1.9 | 0 |
| 107 | Spiral Spin Order and Transport Anisotropy in Underdoped Cuprates. AIP Conference Proceedings, 2006, . | 0.3 | 0 |
| 108 | Local spin spirals in the Néel phase of $La_{2-x}Sr_xCuO_4$. Physical Review B, 2006, 73, . | 1.1 | 20 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Spin-flop transitions and spin-wave gaps in La_2CuO_4 . <i>Physical Review B</i> , 2006, 74, . | 1.1 | 6 |
| 110 | Single-hole properties of the t - J model on the honeycomb lattice. <i>Physical Review B</i> , 2006, 73, . | 1.1 | 11 |
| 111 | Possibility for precise Weinberg-angle measurement in centrosymmetric crystals with axis. <i>Physical Review A</i> , 2006, 73, . | 1.0 | 2 |
| 112 | Sensitivity of condensed-matter P - and T -violation experiments. <i>Physical Review A</i> , 2006, 73, . | 1.0 | 34 |
| 113 | Bose-Einstein condensation of magnons in TlCuCl_3 . <i>Physica B: Condensed Matter</i> , 2005, 359-361, 1318-1320. | 1.3 | 3 |
| 114 | Long-range dynamics of magnetic impurities coupled to a two-dimensional Heisenberg antiferromagnet. <i>Physical Review B</i> , 2005, 71, . | 1.1 | 13 |
| 115 | Vacuum polarization radiative correction to parity violating electron scattering on heavy nuclei. <i>Physical Review C</i> , 2005, 71, . | 1.1 | 9 |
| 116 | Theory of anisotropic hopping transport due to spiral correlations in the spin-glass phase of underdoped cuprate superconductors. <i>Physical Review B</i> , 2005, 72, . | 1.1 | 12 |
| 117 | Theory of Incommensurate Magnetic Correlations Across the Insulator-Superconductor Transition of Underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Physical Review Letters</i> , 2005, 94, 097005. | 2.9 | 45 |
| 118 | Electron correlations in two-dimensional small quantum dots. <i>Physical Review B</i> , 2005, 71, . | 1.1 | 10 |
| 119 | Magnon and hole excitations in the two-dimensional half-filled Hubbard model. <i>Physical Review B</i> , 2005, 72, . | 1.1 | 7 |
| 120 | Suggested search for ^{207}Pb nuclear Schiff moment in PbTiO_3 ferroelectric. <i>Physical Review A</i> , 2005, 72, . | 1.0 | 24 |
| 121 | Manifestations of nuclear anapole moments in solid-state NMR. <i>Physical Review A</i> , 2005, 71, . | 1.0 | 7 |
| 122 | The Field-Induced Magnetic Ordering Transition in TlCuCl_3 . <i>Journal of the Physical Society of Japan</i> , 2005, 74, 129-134. | 0.7 | 30 |
| 123 | Consequences of spin-orbit coupling for the Bose-Einstein condensation of magnons. <i>Europhysics Letters</i> , 2004, 68, 275-281. | 0.7 | 41 |
| 124 | Superconducting spiral phase in the two-dimensional t - J model. <i>Physical Review B</i> , 2004, 70, . | 1.1 | 48 |
| 125 | Finite-nuclear-size effect on the Lamb shift of $s_{1/2}$, $p_{1/2}$, and $p_{3/2}$ atomic states. <i>Physical Review A</i> , 2004, 69, . | 1.0 | 15 |
| 126 | Planar Cu and O hole densities in high- T_c cuprates determined with NMR. <i>Physical Review B</i> , 2004, 69, . | 1.1 | 60 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Stability of the spiral phase in the two-dimensional extended t^2 model. Physical Review B, 2004, 70, . | 1.1 | 30 |
| 128 | Hole Doping of the Cu $d_{x^2-y^2}$ Plane Measured by NMR. Journal of Superconductivity and Novel Magnetism, 2004, 17, 109-112. | 0.5 | 1 |
| 129 | Calculation of radiative corrections to the effect of parity nonconservation in heavy atoms. Physical Review A, 2003, 67, . | 1.0 | 33 |
| 130 | Finite nuclear size and Lamb shift of p-wave atomic states. Physical Review A, 2003, 67, . | 1.0 | 10 |
| 131 | Symmetry Breaking in the Collinear Phase of the J_1 - J_2 Heisenberg Model. Physical Review Letters, 2003, 91, 017201. | 2.9 | 51 |
| 132 | Enhancement of the electron electric dipole moment in gadolinium garnets. Physical Review A, 2003, 68, . | 1.0 | 18 |
| 133 | Restricted and unrestricted Hartree-Fock calculations of conductance for a quantum point contact. Physical Review B, 2003, 67, . | 1.1 | 29 |
| 134 | Long-range dynamics related to magnetic impurities in the two-dimensional Heisenberg antiferromagnet. Physical Review B, 2003, 68, . | 1.1 | 21 |
| 135 | Parity nonconservation in heavy atoms: The radiative correction enhanced by the strong electric field of the nucleus. Physical Review A, 2002, 66, . | 1.0 | 26 |
| 136 | Critical dynamics of singlet and triplet excitations in strongly frustrated spin systems. Physical Review B, 2002, 66, . | 1.1 | 24 |
| 137 | Energy levels and lifetimes of Gd IV and enhancement of the electron electric dipole moment. Physical Review A, 2002, 66, . | 1.0 | 27 |
| 138 | Enhancement of the electron electric dipole moment in Gd^{3+} . Physical Review A, 2002, 66, . | 1.0 | 13 |
| 139 | Radiative Corrections and Parity Nonconservation in Heavy Atoms. Physical Review Letters, 2002, 89, 283003. | 2.9 | 73 |
| 140 | Search for violation of fundamental time-reversal and space-reflection symmetries in solid-state experiments. Physical Review A, 2002, 66, . | 1.0 | 15 |
| 141 | Spontaneous spin stripe dimerization in the doped t^2 model. Physical Review B, 2001, 63, . | 1.1 | 11 |
| 142 | Phase diagram of the spin-orbital model on the square lattice. Physical Review B, 2001, 64, . | 1.1 | 4 |
| 143 | Quantum phase transitions in the two-dimensional J_1 - J_2 model. Physical Review B, 2001, 63, . | 1.1 | 142 |
| 144 | Breit-interaction correction to the hyperfine constant of an external electron in a many-electron atom. Physical Review A, 2001, 63, . | 1.0 | 34 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Conductance anomalies in a one-dimensional quantum contact. <i>Physical Review B</i> , 2001, 64, . | 1.1 | 52 |
| 146 | Critical dynamics of singlet excitations in a frustrated spin system. <i>Physical Review B</i> , 2001, 63, . | 1.1 | 27 |
| 147 | Charge ordering and antiferromagnetic exchange in layered molecular crystals of the $\text{A}_2\text{B}_2\text{X}_4$ type. <i>Physical Review B</i> , 2001, 64, . | 1.1 | 78 |
| 148 | Two-Dimensional Randomly Frustrated Spin-1/2 Heisenberg Model. <i>Physical Review Letters</i> , 2001, 87, 167206. | 2.9 | 17 |
| 149 | Spontaneous dimer order, excitation spectrum and quantum-phase transitions in the J_1 - J_2 Heisenberg model. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000, 80, 1483-1498. | 0.6 | 32 |
| 150 | Double-layer Heisenberg antiferromagnet at finite temperature: Brueckner theory and quantum Monte Carlo simulations. <i>Physical Review B</i> , 2000, 61, 3475-3487. | 1.1 | 51 |
| 151 | Nature of the transition from the spontaneously dimerized to the Néel phase in the two-dimensional J_1 - J_2 model. <i>Physical Review B</i> , 2000, 61, 11820-11824. | 1.1 | 15 |
| 152 | Spin-1 magnetic impurity in a two-dimensional magnetic system close to a quantum critical point. <i>Physical Review B</i> , 2000, 62, 12135-12140. | 1.1 | 21 |
| 153 | Brueckner approach to the spin-wave gap critical index for the two-layer Heisenberg antiferromagnet. <i>Physical Review B</i> , 1999, 59, 8383-8386. | 1.1 | 10 |
| 154 | Quantum spin ladder with dynamic phonons: Bound states of magnons and phonons. <i>Physical Review B</i> , 1999, 60, 14517-14520. | 1.1 | 4 |
| 155 | One- and two-dimensional spin systems in the regime close to deconfinement of spinons. <i>Physical Review B</i> , 1999, 60, 4057-4064. | 1.1 | 11 |
| 156 | Excitation spectrum of the $S=1/2$ quantum spin ladder with frustration: Elementary quasiparticles and many-particle bound states. <i>Physical Review B</i> , 1999, 59, 6266-6277. | 1.1 | 62 |
| 157 | Single-hole dynamics in dimerized spin liquids. <i>Physical Review B</i> , 1999, 60, 3289-3293. | 1.1 | 15 |
| 158 | Spin-spin interaction and magnetic state of a two-dimensional Wigner crystal. <i>Physical Review B</i> , 1999, 59, 4163-4169. | 1.1 | 12 |
| 159 | RELATION BETWEEN SPIN AND PSEUDOSPIN IN STRONGLY CORRELATED ELECTRONIC SYSTEMS. <i>International Journal of Modern Physics B</i> , 1999, 13, 749-753. | 1.0 | 0 |
| 160 | Novel approach to description of spin liquid phases in low-dimensional quantum antiferromagnets. <i>Physica B: Condensed Matter</i> , 1999, 259-261, 1023-1024. | 1.3 | 0 |
| 161 | Relation between spin and pseudospin in strongly correlated electronic systems. <i>Physica B: Condensed Matter</i> , 1999, 259-261, 783-784. | 1.3 | 0 |
| 162 | Low-energy singlet and triplet excitations in the spin-liquid phase of the two-dimensional J_1 - J_2 model. <i>Physical Review B</i> , 1999, 60, 14613-14616. | 1.1 | 76 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 163 | Spectrum of elementary and collective excitations in the dimerized $S=1/2$ Heisenberg chain with frustration. <i>Physical Review B</i> , 1999, 60, 3305-3315. | 1.1 | 20 |
| 164 | Spin-wave Gap Critical Index for the Quantum Two-layer Heisenberg Antiferromagnet at $T = 0$. <i>Australian Journal of Physics</i> , 1999, 52, 837. | 0.6 | 0 |
| 165 | Calculation of the Exchange Constant in 2D Wigner Liquid. <i>Australian Journal of Physics</i> , 1999, 52, 845. | 0.6 | 0 |
| 166 | The role of g-wave pairing and Josephson tunneling in high- T_c cuprate superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1998, 295, 292-303. | 0.6 | 5 |
| 167 | The bulk Josephson response of the d-wave cuprate superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1998, 301, 255-261. | 0.6 | 0 |
| 168 | Local impurities in 2D quantum antiferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 177-181, 727-728. | 1.0 | 1 |
| 169 | The spin-wave condensation and quantum melting of long-range antiferromagnetic order in the t-j model. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 177-181, 493-494. | 1.0 | 0 |
| 170 | Magnetic moment of a spinon and thermodynamic properties of the one-dimensional Heisenberg model. <i>Physical Review B</i> , 1998, 58, 62-64. | 1.1 | 10 |
| 171 | Single-hole Green's functions in insulating copper oxides at nonzero temperature. <i>Physical Review B</i> , 1998, 57, 3518-3524. | 1.1 | 19 |
| 172 | Novel Approach to Description of Spin-Liquid Phases in Low-Dimensional Quantum Antiferromagnets. <i>Physical Review Letters</i> , 1998, 80, 5790-5793. | 2.9 | 116 |
| 173 | A new type of collective excitation in two condensate cuprates. <i>Superconductor Science and Technology</i> , 1998, 11, 1190-1192. | 1.8 | 0 |
| 174 | Local magnetic impurities in the two-dimensional quantum Heisenberg antiferromagnet. <i>Physical Review B</i> , 1998, 58, 8500-8507. | 1.1 | 12 |
| 175 | Superconductivity and the spin-triplet collective mode in the t - J model close to antiferromagnetic instability. <i>Physical Review B</i> , 1998, 58, 14934-14936. | 1.1 | 1 |
| 176 | Bound States of Magnons in the $S=1/2$ Quantum Spin Ladder. <i>Physical Review Letters</i> , 1998, 81, 1941-1944. | 2.9 | 92 |
| 177 | Magnetic impurity in the two-dimensional Heisenberg antiferromagnet. <i>Physical Review B</i> , 1998, 58, 8495-8499. | 1.1 | 10 |
| 178 | Few interacting particles in a random potential. <i>Europhysics Letters</i> , 1997, 37, 121-126. | 0.7 | 28 |
| 179 | Breit-Wigner Width for Two Interacting Particles in a One-Dimensional Random Potential. <i>Physical Review Letters</i> , 1997, 78, 923-926. | 2.9 | 19 |
| 180 | Hole photoproduction in insulating copper oxide. <i>Physical Review B</i> , 1997, 56, 11769-11776. | 1.1 | 59 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 181 | Polarizabilities and parity nonconservation in the Cs atom and limits on the deviation from the standard electroweak model. <i>Physical Review A</i> , 1997, 56, R4357-R4360. | 1.0 | 31 |
| 182 | Phase oscillations between two superconducting condensates in cuprate superconductors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 236, 137-142. | 0.9 | 5 |
| 183 | The incoherent part of the spin-wave polarization operator in the t-J model. <i>Physica C: Superconductivity and Its Applications</i> , 1996, 258, 389-394. | 0.6 | 3 |
| 184 | Temperature dependence of the electron chemical potential in $\text{YBa}_2\text{Cu}_3\text{O}_{6+\delta}$. <i>Physica C: Superconductivity and Its Applications</i> , 1996, 264, 179-184. | 0.6 | 0 |
| 185 | Energy-Averaged Parity Nonconserving Effect in Neutron Scattering from Heavy Nuclei. <i>Physical Review Letters</i> , 1996, 77, 5024-5026. | 2.9 | 4 |
| 186 | Spin-wave condensation and quantum melting of long-range antiferromagnetic order in the t-J model. <i>Physical Review B</i> , 1996, 54, 9988-10000. | 1.1 | 14 |
| 187 | Many-body correlation corrections to superconducting pairing in two dimensions. <i>Physical Review B</i> , 1996, 53, 443-448. | 1.1 | 8 |
| 188 | Calculation of energy levels, E1 transition amplitudes, and parity violation in francium. <i>Physical Review A</i> , 1995, 51, 3454-3461. | 1.0 | 101 |
| 189 | Two-hole bound states in a modified t-J model. <i>Physical Review B</i> , 1995, 52, 12977-12981. | 1.1 | 6 |
| 190 | Hole-hole superconducting pairing in the t-J model induced by spin-wave exchange. <i>Physical Review B</i> , 1995, 51, 6076-6084. | 1.1 | 65 |
| 191 | Hole-hole contact interaction in the t-J model. <i>Physical Review B</i> , 1994, 49, 6197-6204. | 1.1 | 25 |
| 192 | Renormalization of the hole spin-wave coupling constant in the t-J model. <i>Physical Review B</i> , 1994, 49, 1250-1254. | 1.1 | 31 |
| 193 | Hole-hole superconducting pairing in the t-J model induced by long-range spin-wave exchange. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 227, 267-278. | 0.6 | 35 |
| 194 | Hole-hole superconducting pairing in the t-J model induced by long-range spin-wave exchange. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 2217-2218. | 0.6 | 3 |
| 195 | Long-range two-hole bound states in t-J model. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 2219-2220. | 0.6 | 1 |
| 196 | Quantum phase transition in the frustrated Heisenberg antiferromagnet. <i>Physical Review B</i> , 1994, 50, 13821-13824. | 1.1 | 46 |
| 197 | Large-size two-hole bound states in the t-J model. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 218, 197-207. | 0.6 | 44 |
| 198 | The t-J model. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 206, 264-268. | 0.6 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 199 | The t-J model. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 206, 269-274. | 0.6 | 11 |
| 200 | The possibility to observe P and PT violation using the NMR frequency shift in a laser beam. <i>Physica Scripta</i> , 1993, T46, 193-197. | 1.2 | 4 |
| 201 | Interaction between slow positrons and atoms. <i>Physica Scripta</i> , 1993, T46, 248-251. | 1.2 | 49 |
| 202 | Problem of parity nonconservation in Fe57 and Sn119 nuclei. <i>Physical Review C</i> , 1993, 48, 1069-1073. | 1.1 | 15 |
| 203 | Quantum state structure of a hydrogen atom in a magnetic field. <i>Physical Review A</i> , 1993, 47, 3426-3429. | 1.0 | 0 |
| 204 | Possibility of observing parity nonconservation by measuring the nuclear anapole moment using the NMR frequency shift in a laser beam. <i>Physical Review A</i> , 1993, 47, R751-R754. | 1.0 | 10 |
| 205 | t-J model. Dispersion relation and wave function of a hole on the CuO_2 background. <i>Solid State Communications</i> , 1992, 83, 303-306. | 0.9 | 26 |
| 206 | Hole dispersion and enhancement of antiferromagnetic interaction of localized spins in high-Tc superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 190, 453-459. | 0.6 | 1 |
| 207 | On the ground state structure of the two-dimensional Hubbard model on a square lattice. Quantum melting of the CuO_2 ordering. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 162, 199-205. | 0.9 | 10 |
| 208 | Electronic structure of high-Tc superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 175, 347-356. | 0.6 | 18 |
| 209 | Structure of the quantum states of the hydrogen atom in a magnetic field near the ionization limit. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 158, 69-74. | 0.9 | 4 |
| 210 | The possibility of investigation of high-Tc superconductor spin structure using neutrons with energy of $1 \text{--} 10 \text{ eV}$. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 160, 301-304. | 0.9 | 0 |
| 211 | Violation of the Schiff theorem for unstable atomic states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 158, 295-299. | 0.9 | 4 |
| 212 | Many-body perturbation-theory calculations in atoms with open shells. <i>Physical Review A</i> , 1991, 44, 2828-2831. | 1.0 | 25 |
| 213 | Resonance enhancement of relativistic effects for the scattering of very slow electrons by heavy atoms. <i>Physical Review A</i> , 1991, 44, 4224-4227. | 1.0 | 14 |
| 214 | Fine structure of negative ions of alkaline-earth-metal atoms. <i>Physical Review A</i> , 1991, 44, 2823-2827. | 1.0 | 42 |
| 215 | Multiparticle perturbation theory and an accurate calculation of parity nonconservation in cesium. <i>Soviet Physics Journal (English Translation of Izvestiia Vysshikh Uchebnykh Zavedenii, Fizika)</i> , 1990, 33, 713-721. | 0.0 | 0 |
| 216 | Frequencies of nuclear resonances for copper and electronic wave function of antiferromagnetic La_2CuO_4 . <i>Physica C: Superconductivity and Its Applications</i> , 1990, 168, 565-570. | 0.6 | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 217 | On the electronic structure of high-Tc superconductors. Undoped CuO ₂ -plane. Physica C: Superconductivity and Its Applications, 1989, 159, 586-594. | 0.6 | 9 |
| 218 | On the electronic structure of high-Tc superconductors. The nature of charge carriers. Physica C: Superconductivity and Its Applications, 1989, 159, 595-602. | 0.6 | 5 |
| 219 | Summation of the perturbation theory high order contributions to the correlation correction for the energy levels of the caesium atom. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 140, 493-497. | 0.9 | 113 |
| 220 | Summation of the high orders of perturbation theory in the correlation correction to the hyperfine structure and to the amplitudes of E1-transitions in the caesium atom. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 142, 373-377. | 0.9 | 80 |
| 221 | Summation of the high orders of perturbation theory for the parity nonconserving E1-amplitude of the 6s ^{1/2} –7s transition in the caesium atom. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 141, 147-153. | 0.9 | 201 |
| 222 | Screening of Coulomb interaction and many-body perturbation theory in atoms. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 131, 461-465. | 0.9 | 46 |
| 223 | Relativistic Many-Body Calculations of Parity Nonconservation in Lead and Bismuth Atoms. Europhysics Letters, 1988, 7, 413-418. | 0.7 | 24 |
| 224 | Correlation potential method for the calculation of energy levels, hyperfine structure and E1 transition amplitudes in atoms with one unpaired electron. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 1399-1412. | 1.6 | 149 |
| 225 | Calculation of parity non-conservation in thallium. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 3297-3311. | 1.6 | 93 |
| 226 | Parity non-conservation in thallium and caesium. Physica Scripta, 1987, 36, 69-70. | 1.2 | 16 |
| 227 | \hat{p} -formation in the $1\text{H}(3\text{He}, 3\text{H})\hat{p}^{++}$ reaction at intermediate energies. Nuclear Physics A, 1986, 459, 503-524. | 0.6 | 108 |
| 228 | On the P- and T-nonconserving nuclear moments. Nuclear Physics A, 1986, 449, 750-760. | 0.6 | 129 |
| 229 | Shielding of an external electric field in atoms. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 118, 177-180. | 0.9 | 26 |
| 230 | Parity nonconservation in $\hat{p}\hat{\pm}$ scattering. Nuclear Physics A, 1985, 444, 611-620. | 0.6 | 15 |
| 231 | Angular and polarization correlations in the (n, \hat{p}^3) reaction. Nuclear Physics A, 1985, 435, 352-380. | 0.6 | 50 |
| 232 | The $\hat{p}(3\text{He}, t)\hat{p}^{++}$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 154, 110-114. | 1.5 | 59 |
| 233 | Limit on the constant of T-nonconserving nucleon-nucleon interaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 162, 213-216. | 1.5 | 68 |
| 234 | Anomalies of g-Factor in Heavy Atoms. Physica Scripta, 1985, 31, 275-280. | 1.2 | 19 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 235 | Hyperfine Structure of Ra+and Nuclear Magnetic Moments of Radium Isotopes. Physica Scripta, 1985, 32, 507-508. | 1.2 | 27 |
| 236 | Relativistic many-body calculations in atoms and parity violation in caesium. Journal of Physics B: Atomic and Molecular Physics, 1985, 18, 597-613. | 1.6 | 69 |
| 237 | Relativistic many-body calculations of the hyperfine-structure intervals in caesium and francium atoms. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, 1953-1968. | 1.6 | 96 |
| 238 | Theory of neutron reactions and weak interaction in heavy nuclei. Nuclear Physics A, 1984, 412, 13-33. | 0.6 | 39 |
| 239 | Relativistic many-body calculation of parity-violating E1-amplitude for the $6S \rightarrow 7S$ transition in atomic cesium. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 103, 265-269. | 0.9 | 20 |
| 240 | Nuclear anapole moments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 146, 367-369. | 1.5 | 203 |
| 241 | The parity violating rotation of the neutron spin in helium. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 125, 1-4. | 1.5 | 34 |
| 242 | Energy levels of francium. Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 95, 230-232. | 0.9 | 42 |
| 243 | Relativistic many-body calculations of energy levels and of fine-structure intervals in the caesium atom. Journal of Physics B: Atomic and Molecular Physics, 1983, 16, 715-722. | 1.6 | 45 |
| 244 | Parity breaking in the interaction of neutrons with heavy nuclei. Uspekhi Fizicheskikh Nauk, 1982, 25, 1-12. | 0.3 | 119 |
| 245 | Mechanism of parity violation in nuclear fission. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1980, 94, 277-279. | 1.5 | 11 |
| 246 | g-Factor anomalies and strongly forbidden M1 transitions in heavy atoms. Physics Letters, Section A: General, Atomic and Solid State Physics, 1978, 67, 177-179. | 0.9 | 16 |
| 247 | Radial integrals, oscillator strengths, and polarizabilities of the thallium, lead and bismuth atoms. Journal of Quantitative Spectroscopy and Radiative Transfer, 1978, 20, 569-579. | 1.1 | 15 |
| 248 | Robot Localisation Using a Distributed Multi-Modal Kalman Filter. , 0, , . | | 1 |
| 249 | Spontaneous dimer order, excitation spectrum and quantum-phase transitions in the J1-J2 Heisenberg model. , 0, . | | 9 |