

# Oleg P Sushkov

## List of Publications by Year in descending order

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249  
papers

5,930  
citations

66234

42  
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65  
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251  
all docs

251  
docs citations

251  
times ranked

2870  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nuclear anapole moments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 146, 367-369.	1.5	203
2	Summation of the high orders of perturbation theory for the parity nonconserving E1-amplitude of the $6s \rightarrow 7s$ transition in the caesium atom. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 141, 147-153.	0.9	201
3	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
4	Quantum phase transitions in the two-dimensional $J_1 \hat{J}_2$ model. Physical Review B, 2001, 63, .	1.1	142
5	On the P- and T-nonconserving nuclear moments. Nuclear Physics A, 1986, 449, 750-760.	0.6	129
6	Parity breaking in the interaction of neutrons with heavy nuclei. Uspekhi Fizicheskikh Nauk, 1982, 25, 1-12.	0.3	119
7	Novel Approach to Description of Spin-Liquid Phases in Low-Dimensional Quantum Antiferromagnets. Physical Review Letters, 1998, 80, 5790-5793.	2.9	116
8	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
9	$J_1 \hat{J}_2$ model: First-order phase transition versus deconfinement of spinons. Physical Review B, 2006, 73, .	1.1	109
10	$\hat{I}^+$ -formation in the $1H(3He, 3H)\hat{I}^{++}$ reaction at intermediate energies. Nuclear Physics A, 1986, 459, 503-524.	0.6	108
11	Calculation of energy levels, E1 transition amplitudes, and parity violation in francium. Physical Review A, 1995, 51, 3454-3461.	1.0	101
12	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
13	Screening of Coulomb Impurities in Graphene. Physical Review Letters, 2008, 100, 076803.	2.9	94
14	Calculation of parity non-conservation in thallium. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 3297-3311.	1.6	93
15	Bound States of Magnons in the $S=1/2$ Quantum Spin Ladder. Physical Review Letters, 1998, 81, 1941-1944.	2.9	92
16	Bound States of Skyrmions and Merons near the Lifshitz Point. Physical Review Letters, 2017, 119, 207201.	2.9	91
17	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
18	Charge ordering and antiferromagnetic exchange in layered molecular crystals of the $\hat{I}$ type. Physical Review B, 2001, 64, .	1.1	78

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19	Low-energy singlet and triplet excitations in the spin-liquid phase of the two-dimensional $J_1\hat{J}_2$ model. <i>Physical Review B</i> , 1999, 60, 14613-14616.	1.1	76
20	Radiative Corrections and Parity Nonconservation in Heavy Atoms. <i>Physical Review Letters</i> , 2002, 89, 283003.	2.9	73
21	Relativistic many-body calculations in atoms and parity violation in caesium. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1985, 18, 597-613.	1.6	69
22	Limit on the constant of T-nonconserving nucleon-nucleon interaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1985, 162, 213-216.	1.5	68
23	Hole-hole superconducting pairing in the $J$ -model induced by spin-wave exchange. <i>Physical Review B</i> , 1995, 51, 6076-6084.	1.1	65
24	Pnictides as frustrated quantum antiferromagnets close to a quantum phase transition. <i>Physical Review B</i> , 2009, 79, .	1.1	63
25	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
26	Planar Cu and O hole densities in high- $T_c$ cuprates determined with NMR. <i>Physical Review B</i> , 2004, 69, .	1.1	60
27	The $p(3\text{He},t)^{3+}$ reaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1985, 154, 110-114.	1.5	59
28	Hole photoproduction in insulating copper oxide. <i>Physical Review B</i> , 1997, 56, 11769-11776.	1.1	59
29	Origin of the Phonon Hall Effect in Rare-Earth Garnets. <i>Physical Review Letters</i> , 2014, 113, 265901.	2.9	53
30	Conductance anomalies in a one-dimensional quantum contact. <i>Physical Review B</i> , 2001, 64, .	1.1	52
31	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
32	Symmetry Breaking in the Collinear Phase of the $J_1\hat{J}_2$ Heisenberg Model. <i>Physical Review Letters</i> , 2003, 91, 017201.	2.9	51
33	Angular and polarization correlations in the $(n, \hat{p})$ reaction. <i>Nuclear Physics A</i> , 1985, 435, 352-380.	0.6	50
34	Interaction between slow positrons and atoms. <i>Physica Scripta</i> , 1993, T46, 248-251.	1.2	49
35	Superconducting spiral phase in the two-dimensional $t\hat{J}$ model. <i>Physical Review B</i> , 2004, 70, .	1.1	48
36	Screening of Coulomb interaction and many-body perturbation theory in atoms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1988, 131, 461-465.	0.9	46

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37	Quantum phase transition in the frustrated Heisenberg antiferromagnet. <i>Physical Review B</i> , 1994, 50, 13821-13824.	1.1	46
38	Relativistic many-body calculations of energy levels and of fine-structure intervals in the caesium atom. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1983, 16, 715-722.	1.6	45
39	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
40	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
41	Self-consistent spin-wave theory for a frustrated Heisenberg model with biquadratic exchange in the columnar phase and its application to iron pnictides. <i>Physical Review B</i> , 2011, 84, .	1.1	43
42	Energy levels of francium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1983, 95, 230-232.	0.9	42
43	Fine structure of negative ions of alkaline-earth-metal atoms. <i>Physical Review A</i> , 1991, 44, 2823-2827.	1.0	42
44	Consequences of spin-orbit coupling for the Bose-Einstein condensation of magnons. <i>Europhysics Letters</i> , 2004, 68, 275-281.	0.7	41
45	Theory of neutron reactions and weak interaction in heavy nuclei. <i>Nuclear Physics A</i> , 1984, 412, 13-33.	0.6	39
46	Topological Insulating States in Laterally Patterned Ordinary Semiconductors. <i>Physical Review Letters</i> , 2013, 110, 186601.	2.9	39
47	Enhancement of the electron electric dipole moment in $\text{Eu}^{2+}$ . <i>Physical Review A</i> , 2011, 84, .	1.0	37
48	Structure of the Spin-Glass State of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ : The Spiral Theory. <i>Physical Review Letters</i> , 2007, 98, 037001.	2.9	36
49	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
50	Distribution of electrons and holes in cuprate superconductors as determined from $^{17}\text{O}$ and $^{63}\text{Cu}$ nuclear magnetic resonance. <i>Physical Review B</i> , 2014, 90, .	1.1	35
51	The parity violating rotation of the neutron spin in helium. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983, 125, 1-4.	1.5	34
52	Breit-interaction correction to the hyperfine constant of an external electron in a many-electron atom. <i>Physical Review A</i> , 2001, 63, .	1.0	34
53	Sensitivity of condensed-matter P- and T-violation experiments. <i>Physical Review A</i> , 2006, 73, .	1.0	34
54	Width of the longitudinal magnon in the vicinity of the $O(3)$ quantum critical point. <i>Physical Review B</i> , 2011, 84, .	1.1	34

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55	Calculation of radiative corrections to the effect of parity nonconservation in heavy atoms. <i>Physical Review A</i> , 2003, 67, .	1.0	33
56	Superconductivity from collective excitations in magic-angle twisted bilayer graphene. <i>Physical Review Research</i> , 2020, 2, .	1.3	33
57	Spontaneous dimer order, excitation spectrum and quantum-phase transitions in the $J_{1<sub>1</sub>-J_{2<sub>2</sub>}$ 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
58	Renormalization of the hole spin-wave coupling constant in the $J$ -model. <i>Physical Review B</i> , 1994, 49, 1250-1254.	1.1	31
59	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
60	Stability of the spiral phase in the two-dimensional extended $t$ - $J$ model. <i>Physical Review B</i> , 2004, 70, .	1.1	30
61	Gauge-phonon dominated resistivity in twisted bilayer graphene near magic angle. <i>Physical Review B</i> , 2019, 99, .	1.1	30
62	The Field-Induced Magnetic Ordering Transition in $\text{TiCuCl}_3$ . <i>Journal of the Physical Society of Japan</i> , 2005, 74, 129-134.	0.7	30
63	Restricted and unrestricted Hartree-Fock calculations of conductance for a quantum point contact. <i>Physical Review B</i> , 2003, 67, .	1.1	29
64	Localization-delocalization transition of a polaron near an impurity. <i>Physical Review B</i> , 2009, 79, .	1.1	29
65	Geometric Control of Universal Hydrodynamic Flow in a Two-Dimensional Electron Fluid. <i>Physical Review X</i> , 2021, 11, .	2.8	29
66	Few interacting particles in a random potential. <i>Europhysics Letters</i> , 1997, 37, 121-126.	0.7	28
67	Hyperfine Structure of $\text{Ra}^+$ and Nuclear Magnetic Moments of Radium Isotopes. <i>Physica Scripta</i> , 1985, 32, 507-508.	1.2	27
68	Critical dynamics of singlet excitations in a frustrated spin system. <i>Physical Review B</i> , 2001, 63, .	1.1	27
69	Energy levels and lifetimes of Gd IV and enhancement of the electron electric dipole moment. <i>Physical Review A</i> , 2002, 66, .	1.0	27
70	Thermodynamics of a Gas of Deconfined Bosonic Spinons in Two Dimensions. <i>Physical Review Letters</i> , 2011, 106, 207203.	2.9	27
71	Electrical Control of the Zeeman Spin Splitting in Two-Dimensional Hole Systems. <i>Physical Review Letters</i> , 2018, 121, 077701.	2.9	27
72	Shielding of an external electric field in atoms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1986, 118, 177-180.	0.9	26

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73	t-J model. Dispersion relation and wave function of a hole on the $\text{N}\ddot{\text{A}}\text{el}$ background. Solid State Communications, 1992, 83, 303-306.	0.9	26
74	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
75	Many-body perturbation-theory calculations in atoms with open shells. Physical Review A, 1991, 44, 2828-2831.	1.0	25
76	Hole-hole contact interaction in the t-J model. Physical Review B, 1994, 49, 6197-6204.	1.1	25
77	Relativistic Many-Body Calculations of Parity Nonconservation in Lead and Bismuth Atoms. Europhysics Letters, 1988, 7, 413-418.	0.7	24
78	Critical dynamics of singlet and triplet excitations in strongly frustrated spin systems. Physical Review B, 2002, 66, .	1.1	24
79	Suggested search for $\text{Pb}^{207}$ nuclear Schiff moment in $\text{PbTiO}_3$ ferroelectric. Physical Review A, 2005, 72, .	1.0	24
80	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
81	Asymptotic freedom in quantum magnets. Physical Review B, 2015, 92, .	1.1	23
82	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
83	Electrical control of the $g$ tensor of the first hole in a silicon MOS quantum dot. Physical Review B, 2021, 104, .	1.1	23
84	Coulomb disorder effects on angle-resolved photoemission and nuclear quadrupole resonance spectra in cuprates. Physical Review B, 2009, 80, .	1.1	22
85	Spin-1/2 magnetic impurity in a two-dimensional magnetic system close to a quantum critical point. Physical Review B, 2000, 62, 12135-12140.	1.1	21
86	Long-range dynamics related to magnetic impurities in the two-dimensional Heisenberg antiferromagnet. Physical Review B, 2003, 68, .	1.1	21
87	Effects of Coulomb screening and disorder on an artificial graphene based on nanopatterned semiconductor. 2D Materials, 2015, 2, 014010.	2.0	21
88	Near-Field Excited Archimedean-like Tiling Patterns in Phonon-Polaritonic Crystals. ACS Nano, 2021, 15, 9134-9142.	7.3	21
89	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
90	Spectrum of elementary and collective excitations in the dimerized $S=1/2$ Heisenberg chain with frustration. Physical Review B, 1999, 60, 3305-3315.	1.1	20

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91	Local spin spirals in the Néel phase of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ . Physical Review B, 2006, 73, .	1.1	20
92	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
93	Anomalies of g-Factor in Heavy Atoms. Physica Scripta, 1985, 31, 275-280.	1.2	19
94	Breit-Wigner Width for Two Interacting Particles in a One-Dimensional Random Potential. Physical Review Letters, 1997, 78, 923-926.	2.9	19
95	Single-hole Green's functions in insulating copper oxides at nonzero temperature. Physical Review B, 1998, 57, 3518-3524.	1.1	19
96	Effective action, magnetic excitations, and quantum fluctuations in lightly doped single-layer cuprates. Physical Review B, 2008, 78, .	1.1	19
97	Spin spirals in underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ . Physical Review B, 2009, 79, .	1.1	19
98	Scaling, rotation, and channeling behavior of helical and skyrmion spin textures in thin films of Te-doped $\text{Cu}_2\text{OSeO}_3$ . Science Advances, 2020, 6, eaax2138.	4.7	19
99	Electronic structure of high- $T_c$ superconductors. Physica C: Superconductivity and Its Applications, 1991, 175, 347-356.	0.6	18
100	Enhancement of the electron electric dipole moment in gadolinium garnets. Physical Review A, 2003, 68, .	1.0	18
101	Mechanisms for Strong Anisotropy of In-Plane $g$ -Factors in Hole Based Quantum Point Contacts. Physical Review Letters, 2017, 119, 116803.	2.9	18
102	Detection and Control of Spin-Orbit Interactions in a GaAs Hole Quantum Point Contact. Physical Review Letters, 2017, 118, 146801.	2.9	18
103	Two-Dimensional Randomly Frustrated Spin-1/2 Heisenberg Model. Physical Review Letters, 2001, 87, 167206.	2.9	17
104	$g$ -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
105	Parity non-conservation in thallium and caesium. Physica Scripta, 1987, 36, 69-70.	1.2	16
106	Spin-wave velocities, density of magnetic excitations, and NMR relaxation in iron pnictides. Physical Review B, 2009, 80, .	1.1	16
107	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
108	The amplitudes and the structure of the charge density wave in YBCO. Scientific Reports, 2016, 6, 34551.	1.6	16

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109	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
110	Parity nonconservation in $p\hat{1}\pm$ scattering. Nuclear Physics A, 1985, 444, 611-620.	0.6	15
111	Problem of parity nonconservation in Fe57 and Sn119 nuclei. Physical Review C, 1993, 48, 1069-1073.	1.1	15
112	Single-hole dynamics in dimerized spin liquids. Physical Review B, 1999, 60, 3289-3293.	1.1	15
113	Nature of the transition from the spontaneously dimerized to the Néel phase in the two-dimensional $J_1\hat{2}$ model. Physical Review B, 2000, 61, 11820-11824.	1.1	15
114	Search for violation of fundamental time-reversal and space-reflection symmetries in solid-state experiments. Physical Review A, 2002, 66, .	1.0	15
115	Finite-nuclear-size effect on the Lamb shift of $s_{1/2}, p_{1/2},$ and $p_{3/2}$ atomic states. Physical Review A, 2004, 69, .	1.0	15
116	Implications of resonant inelastic x-ray scattering data for theoretical models of cuprates. Physical Review B, 2013, 88, .	1.1	15
117	Resonance enhancement of relativistic effects for the scattering of very slow electrons by heavy atoms. Physical Review A, 1991, 44, 4224-4227.	1.0	14
118	Spin-wave condensation and quantum melting of long-range antiferromagnetic order in the $J$ -model. Physical Review B, 1996, 54, 9988-10000.	1.1	14
119	Manifestation of a non-Abelian Berry phase in a $p$ -type semiconductor system. Physical Review B, 2016, 93, .	1.1	14
120	Enhancement of the electron electric dipole moment in $Gd^{3+}$ . Physical Review A, 2002, 66, .	1.0	13
121	Long-range dynamics of magnetic impurities coupled to a two-dimensional Heisenberg antiferromagnet. Physical Review B, 2005, 71, .	1.1	13
122	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	13
123	Nonequilibrium quantum mechanics: A hot quantum soup of paramagnons. Physical Review B, 2017, 95, .	1.1	13
124	Frequencies of nuclear resonances for copper and electronic wave function of antiferromagnetic $La_2CuO_4$ . Physica C: Superconductivity and Its Applications, 1990, 168, 565-570.	0.6	12
125	Local magnetic impurities in the two-dimensional quantum Heisenberg antiferromagnet. Physical Review B, 1998, 58, 8500-8507.	1.1	12
126	Spin-spin interaction and magnetic state of a two-dimensional Wigner crystal. Physical Review B, 1999, 59, 4163-4169.	1.1	12



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127	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
128	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 $YBa_2Cu_3O_{7-x}$ <i>Physical Review B</i> , 2008, 78, .	1.1	12
129	Electrical control of the sign of the $g$ -factor in a GaAs hole quantum point contact. <i>Physical Review B</i> , 2016, 94, .	1.1	12
130	Mechanism of parity violation in nuclear fission. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1980, 94, 277-279.	1.5	11
131	The t-J model. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 206, 269-274.	0.6	11
132	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
133	Spontaneous spin stripe dimerization in the doped $t$ -J model. <i>Physical Review B</i> , 2001, 63, .	1.1	11
134	Single-hole properties of the $t$ -J model on the honeycomb lattice. <i>Physical Review B</i> , 2006, 73, .	1.1	11
135	Negative hopping magnetoresistance and dimensional crossover in lightly doped cuprate superconductors. <i>Physical Review B</i> , 2007, 76, .	1.1	11
136	Magnetic focusing of electrons and holes in the presence of spin-orbit interactions. <i>Physical Review B</i> , 2015, 92, .	1.1	11
137	On the ground state structure of the two-dimensional Hubbard model on a square lattice. Quantum melting of the Néel ordering. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 162, 199-205.	0.9	10
138	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
139	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
140	Magnetic impurity in the two-dimensional Heisenberg antiferromagnet. <i>Physical Review B</i> , 1998, 58, 8495-8499.	1.1	10
141	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
142	Finite nuclear size and Lamb shift of p-wave atomic states. <i>Physical Review A</i> , 2003, 67, .	1.0	10
143	Electron correlations in two-dimensional small quantum dots. <i>Physical Review B</i> , 2005, 71, .	1.1	10
144	On the electronic structure of high-Tc superconductors. Undoped CuO <sub>2</sub> -plane. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 159, 586-594.	0.6	9

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145	Vacuum polarization radiative correction to parity violating electron scattering on heavy nuclei. Physical Review C, 2005, 71, .	1.1	9
146	Effective approach to the Nagaoka regime of the two-dimensional $t$ - $J$ model. Physical Review B, 2012, 85, .	1.1	9
147	Investigating the nuclear Schiff moment of $^{207}\text{Pb}$ in ferroelectric $\text{PbTiO}_3$ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 085001.	0.6	9
148	Spontaneous dimer order, excitation spectrum and quantum-phase transitions in the $J_1$ - $J_2$ Heisenberg model. , 0, .		9
149	Nonlinear Quantum Electrodynamics in Dirac Materials. Physical Review Letters, 2022, 128, 066402.	2.9	9
150	The $t$ - $J$ model. Physica C: Superconductivity and Its Applications, 1993, 206, 264-268.	0.6	8
151	Many-body correlation corrections to superconducting pairing in two dimensions. Physical Review B, 1996, 53, 443-448.	1.1	8
152	Effective action of the weakly doped $t$ - $J$ model and spin-wave excitations in the spin-glass phase of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ . Physical Review B, 2007, 75, .	1.1	8
153	Magnetic properties of lightly doped antiferromagnetic $\text{YBa}_2\text{Cu}_3\text{O}_y$ . Physical Review B, 2011, 84, .	1.1	8
154	Relativistic effects in scattering of polarized electrons. Europhysics Letters, 2013, 103, 47003.	0.7	8
155	Magnetic excitations in the spin-spiral state of $\text{TbMnO}_3$ and $\text{DyMnO}_3$ . Physical Review B, 2015, 91, .		8
156	Multiple universalities in order-disorder magnetic phase transitions. Physical Review B, 2017, 95, .	1.1	8
157	Tuning the topological insulator states of artificial graphene. Physical Review B, 2019, 99, .	1.1	8
158	Magnon and hole excitations in the two-dimensional half-filled Hubbard model. Physical Review B, 2005, 72, .	1.1	7
159	Manifestations of nuclear anapole moments in solid-state NMR. Physical Review A, 2005, 71, .	1.0	7
160	Phonon mode softening at the ferroelectric transition in $\text{Eu}_{0.5}\text{Ba}_{0.5}\text{TiO}_3$ . Hyperfine Interactions, 2010, 198, 1-4.	0.2	7
161	Angle-resolved photoemission spectral function in lightly doped and antiferromagnetically ordered $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ . Physical Review B, 2012, 85, .	1.1	7
162	Fermi Surface Reconstruction by Dynamic Magnetic Fluctuations. Physical Review Letters, 2012, 109, 037001.	2.9	7

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163	Interacting spin droplets and magnetic properties of a low-density two-dimensional electron gas. Physical Review B, 2013, 88, .	1.1	7
164	The long and the short of it. Nature Physics, 2014, 10, 339-340.	6.5	7
165	Two-hole bound states in a modified-Jmodel. Physical Review B, 1995, 52, 12977-12981.	1.1	6
166	Spin-flop transitions and spin-wave gaps in La <sub>2</sub> CuO <sub>4</sub> . Physical Review B, 2006, 74, .	1.1	6
167	Bulk and surface nanoscale hole density inhomogeneity in HgBa <sub>2</sub> CuO <sub>4</sub> . Physical Review B, 2006, 74, . $\frac{1}{2} \frac{d}{dx} \left( \frac{1}{x} \right) = -\frac{1}{2x^2}$	1.1	6
168	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
169	Chern insulating state in laterally patterned semiconductor heterostructures. Physical Review B, 2016, 94, .	1.1	6
170	Two-dimensional topological semimetal state in a nanopatterned semiconductor system. Physical Review B, 2017, 96, .	1.1	6
171	Interference effects and Huygens principle in transverse magnetic focusing of electrons and holes. Physical Review B, 2017, 96, .	1.1	6
172	On the electronic structure of high-T <sub>c</sub> superconductors. The nature of charge carriers. Physica C: Superconductivity and Its Applications, 1989, 159, 595-602.	0.6	5
173	Phase oscillations between two superconducting condensates in cuprate superconductors. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 236, 137-142.	0.9	5
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