

Daniel Loss

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/84302/publications.pdf>

Version: 2024-02-01

472
papers

41,175
citations

2963

93
h-index

2940

189
g-index

480
all docs

480
docs citations

480
times ranked

16388
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum computation with quantum dots. <i>Physical Review A</i> , 1998, 57, 120-126.	1.0	5,712
2	Quantum computing in molecular magnets. <i>Nature</i> , 2001, 410, 789-793.	13.7	2,657
3	Quantum Information Processing Using Quantum Dot Spins and Cavity QED. <i>Physical Review Letters</i> , 1999, 83, 4204-4207.	2.9	1,777
4	Coupled quantum dots as quantum gates. <i>Physical Review B</i> , 1999, 59, 2070-2078.	1.1	1,306
5	Spin qubits in graphene quantum dots. <i>Nature Physics</i> , 2007, 3, 192-196.	6.5	935
6	Nonballistic Spin-Field-Effect Transistor. <i>Physical Review Letters</i> , 2003, 90, 146801.	2.9	763
7	Electron Spin Decoherence in Quantum Dots due to Interaction with Nuclei. <i>Physical Review Letters</i> , 2002, 88, 186802.	2.9	705
8	Andreev tunneling, Coulomb blockade, and resonant transport of nonlocal spin-entangled electrons. <i>Physical Review B</i> , 2001, 63, .	1.1	430
9	Topological Superconductivity and Majorana Fermions in RKKY Systems. <i>Physical Review Letters</i> , 2013, 111, 186805.	2.9	416
10	Hyperfine interaction in a quantum dot: Non-Markovian electron spin dynamics. <i>Physical Review B</i> , 2004, 70, .	1.1	401
11	Phonon-Induced Decay of the Electron Spin in Quantum Dots. <i>Physical Review Letters</i> , 2004, 93, .	2.9	394
12	Spin qubits with electrically gated polyoxometalate molecules. <i>Nature Nanotechnology</i> , 2007, 2, 312-317.	15.6	390
13	Schrieffer-Wolff transformation for quantum many-body systems. <i>Annals of Physics</i> , 2011, 326, 2793-2826.	1.0	351
14	Quantum correlations in two-fermion systems. <i>Physical Review A</i> , 2001, 64, .	1.0	323
15	Prospects for Spin-Based Quantum Computing in Quantum Dots. <i>Annual Review of Condensed Matter Physics</i> , 2013, 4, 51-81.	5.2	304
16	Towards a realistic transport modeling in a superconducting nanowire with Majorana fermions. <i>Physical Review B</i> , 2013, 87, .	1.1	301
17	Electric-dipole-induced spin resonance in quantum dots. <i>Physical Review B</i> , 2006, 74, .	1.1	287
18	Suppression of tunneling by interference in half-integer-spin particles. <i>Physical Review Letters</i> , 1992, 69, 3232-3235.	2.9	286

#	ARTICLE	IF	CITATIONS
19	Probing atomic structure and Majorana wavefunctions in mono-atomic Fe chains on superconducting Pb surface. Npj Quantum Information, 2016, 2, .	2.8	283
20	Quantum Dot as Spin Filter and Spin Memory. Physical Review Letters, 2000, 85, 1962-1965.	2.9	279
21	Macroscopic quantum tunneling in magnetic proteins. Physical Review Letters, 1992, 68, 3092-3095.	2.9	273
22	Quantum information processing and communication. European Physical Journal D, 2005, 36, 203-228.	0.6	272
23	Berry's phase and persistent charge and spin currents in textured mesoscopic rings. Physical Review Letters, 1990, 65, 1655-1658.	2.9	253
24	Direct Measurement of the Spin-Orbit Interaction in a Two-Electron InAs Nanowire Quantum Dot. Physical Review Letters, 2007, 98, 266801.	2.9	252
25	Probing Entanglement and Nonlocality of Electrons in a Double-Dot via Transport and Noise. Physical Review Letters, 2000, 84, 1035-1038.	2.9	248
26	Spin decoherence of a heavy hole coupled to nuclear spins in a quantum dot. Physical Review B, 2008, 78, .	1.1	243
27	Spin Relaxation and Decoherence of Holes in Quantum Dots. Physical Review Letters, 2005, 95, 076805.	2.9	236
28	Electron spin evolution induced by interaction with nuclei in a quantum dot. Physical Review B, 2003, 67, .	1.1	229
29	Majorana qubit decoherence by quasiparticle poisoning. Physical Review B, 2012, 85, .	1.1	227
30	Majorana Edge States in Interacting One-Dimensional Systems. Physical Review Letters, 2011, 107, 036801.	2.9	226
31	Quantum Computing with Spin Cluster Qubits. Physical Review Letters, 2003, 90, 047901.	2.9	221
32	Noise of entangled electrons: Bunching and antibunching. Physical Review B, 2000, 61, R16303-R16306.	1.1	214
33	Magnetization Transport and Quantized Spin Conductance. Physical Review Letters, 2003, 90, 167204.	2.9	206
34	Double-occupancy errors, adiabaticity, and entanglement of spin qubits in quantum dots. Physical Review B, 2001, 63, .	1.1	205
35	Zitterbewegung of Electronic Wave Packets in III-V Zinc-Blende Semiconductor Quantum Wells. Physical Review Letters, 2005, 94, 206801.	2.9	204
36	Electron spin dynamics in quantum dots and related nanostructures due to hyperfine interaction with nuclei. Journal of Physics Condensed Matter, 2003, 15, R1809-R1833.	0.7	198

#	ARTICLE	IF	CITATIONS
37	Parity effects in a Luttinger liquid: Diamagnetic and paramagnetic ground states. Physical Review Letters, 1992, 69, 343-346.	2.9	195
38	Observation of extremely slow hole spin relaxation in self-assembled quantum dots. Physical Review B, 2007, 76, .	1.1	194
39	Spin-selective Peierls transition in interacting one-dimensional conductors with spin-orbit interaction. Physical Review B, 2010, 82, .	1.1	186
40	The germanium quantum information route. Nature Reviews Materials, 2021, 6, 926-943.	23.8	185
41	Anisotropic transport in a two-dimensional electron gas in the presence of spin-orbit coupling. Physical Review B, 2003, 68, .	1.1	182
42	Spin-Entangled Currents Created by a Triple Quantum Dot. Physical Review Letters, 2003, 90, 166803.	2.9	179
43	Spin tunneling and phonon-assisted relaxation in Mn ²⁺ -acetate. Physical Review B, 2000, 61, 1286-1302.	1.1	178
44	Recipes for spin-based quantum computing. Nanotechnology, 2005, 16, R27-R49.	1.3	176
45	Composite Majorana fermion wave functions in nanowires. Physical Review B, 2012, 86, .	1.1	176
46	Singlet-triplet decoherence due to nuclear spins in a double quantum dot. Physical Review B, 2005, 72, .	1.1	173
47	Spin-Electric Coupling in Molecular Magnets. Physical Review Letters, 2008, 101, 217201.	2.9	173
48	Quantum computing with molecular spin systems. Journal of Materials Chemistry, 2009, 19, 1672-1677.	6.7	172
49	Majorana Kramers Pairs in Higher-Order Topological Insulators. Physical Review Letters, 2018, 121, 196801.	2.9	162
50	Strong spin-orbit interaction and helical hole states in Ge/Si nanowires. Physical Review B, 2011, 84, .	1.1	158
51	Persistent currents from Berry's phase in mesoscopic systems. Physical Review B, 1992, 45, 13544-13561.	1.1	155
52	Quantum computing with antiferromagnetic spin clusters. Physical Review B, 2003, 68, .	1.1	153
53	Spin-Hall conductivity due to Rashba spin-orbit interaction in disordered systems. Physical Review B, 2005, 71, .	1.1	153
54	Spin dynamics in InAs nanowire quantum dots coupled to a transmission line. Physical Review B, 2008, 77, .	1.1	153

#	ARTICLE	IF	CITATIONS
55	Nuclear spin state narrowing via gate-controlled Rabi oscillations in a double quantum dot. Physical Review B, 2006, 73, .	1.1	152
56	Time-reversal invariant parafermions in interacting Rashba nanowires. Physical Review B, 2014, 90, .	1.1	150
57	Transition from Fractional to Majorana Fermions in Rashba Nanowires. Physical Review Letters, 2012, 109, 236801.	2.9	147
58	Detection of Single Spin Decoherence in a Quantum Dot via Charge Currents. Physical Review Letters, 2001, 86, 4648-4651.	2.9	142
59	Superconductor coupled to two Luttinger liquids as an entangler for electron spins. Physical Review B, 2002, 65, .	1.1	138
60	Noise of a quantum dot system in the cotunneling regime. Physical Review B, 2001, 63, .	1.1	137
61	Spin-dependent Josephson current through double quantum dots and measurement of entangled electron states. Physical Review B, 2000, 62, 13569-13572.	1.1	136
62	Spintronics in MoS ₂ monolayer quantum wires. Physical Review B, 2013, 88, .	1.1	135
63	Spin interactions and switching in vertically tunnel-coupled quantum dots. Physical Review B, 2000, 62, 2581-2592.	1.1	134
64	Dissipation effects in spin-Hall transport of electrons and holes. Physical Review B, 2004, 69, .	1.1	132
65	Quantum computers and quantum coherence. Journal of Magnetism and Magnetic Materials, 1999, 200, 202-218.	1.0	131
66	Electric Dipole Spin Resonance for Heavy Holes in Quantum Dots. Physical Review Letters, 2007, 98, 097202.	2.9	131
67	Quantum memories at finite temperature. Reviews of Modern Physics, 2016, 88, .	16.4	131
68	Rashba Spin-Orbit Interaction and Shot Noise for Spin-Polarized and Entangled Electrons. Physical Review Letters, 2002, 89, 176401.	2.9	128
69	Spin relaxation and anticrossing in quantum dots: Rashba versus Dresselhaus spin-orbit coupling. Physical Review B, 2005, 71, .	1.1	128
70	Spin-Hall transport of heavy holes in III-V semiconductor quantum wells. Physical Review B, 2005, 71, .	1.1	124
71	Second-Order Topological Superconductivity in Bi_2Te_3 -Junction Rashba Layers. Physical Review Letters, 2019, 122, 126402.	2.9	124
72	Spin-orbit interaction and anomalous spin relaxation in carbon nanotube quantum dots. Physical Review B, 2008, 77, .	1.1	120

#	ARTICLE	IF	CITATIONS
73	Macroscopic Quantum Coherence in Molecular Magnets. <i>Physical Review Letters</i> , 1998, 80, 169-172.	2.9	118
74	Quantum information is physical. <i>Superlattices and Microstructures</i> , 1998, 23, 419-432.	1.4	114
75	Zero-energy Andreev bound states from quantum dots in proximitized Rashba nanowires. <i>Physical Review B</i> , 2018, 98, .	1.1	114
76	Spintronics and Quantum Dots for Quantum Computing and Quantum Communication. <i>Fortschritte Der Physik</i> , 2000, 48, 965-986.	1.5	113
77	Thin-Film Magnetization Dynamics on the Surface of a Topological Insulator. <i>Physical Review Letters</i> , 2012, 108, 187201.	2.9	112
78	Spin-Orbit Interaction in Symmetric Wells with Two Subbands. <i>Physical Review Letters</i> , 2007, 99, 076603.	2.9	111
79	Kramers pairs of Majorana fermions and parafermions in fractional topological insulators. <i>Physical Review B</i> , 2014, 90, .	1.1	111
80	Spin decay and quantum parallelism. <i>Physical Review B</i> , 2002, 66, .	1.1	105
81	Datta's Das transistor with enhanced spin control. <i>Applied Physics Letters</i> , 2003, 82, 2658-2660.	1.5	105
82	Hyperfine interaction and electron-spin decoherence in graphene and carbon nanotube quantum dots. <i>Physical Review B</i> , 2009, 80, .	1.1	105
83	Transport through a double quantum dot in the sequential tunneling and cotunneling regimes. <i>Physical Review B</i> , 2004, 69, .	1.1	104
84	Cancellation of Spin-Orbit Effects in Quantum Gates Based on the Exchange Coupling in Quantum Dots. <i>Physical Review Letters</i> , 2002, 88, 047903.	2.9	103
85	Single-spin dynamics and decoherence in a quantum dot via charge transport. <i>Physical Review B</i> , 2002, 65, .	1.1	102
86	Magnonic topological insulators in antiferromagnets. <i>Physical Review B</i> , 2017, 96, .	1.1	101
87	Nuclear magnetism and electron order in interacting one-dimensional conductors. <i>Physical Review B</i> , 2009, 80, .	1.1	100
88	Berry's phase and quantum dynamics of ferromagnetic solitons. <i>Physical Review B</i> , 1996, 53, 3237-3255.	1.1	99
89	Rigorous Born approximation and beyond for the spin-boson model. <i>Physical Review B</i> , 2005, 71, .	1.1	99
90	Majorana bound states in magnetic skyrmions. <i>Physical Review B</i> , 2016, 93, .	1.1	99

#	ARTICLE	IF	CITATIONS
91	Topological Floquet Phases in Driven Coupled Rashba Nanowires. Physical Review Letters, 2016, 116, 176401.	2.9	98
92	Topological Magnons and Edge States in Antiferromagnetic Skyrmion Crystals. Physical Review Letters, 2019, 122, 187203.	2.9	97
93	Parafermions in an Interacting Nanowire Bundle. Physical Review Letters, 2014, 112, 246403.	2.9	95
94	Electric-field-induced Majorana Fermions in Armchair Carbon Nanotubes. Physical Review Letters, 2012, 108, 196804.	2.9	93
95	Josephson current and proximity effect in Luttinger liquids. Physical Review B, 1996, 53, 1548-1557.	1.1	91
96	Physical optimization of quantum error correction circuits. Physical Review B, 1999, 60, 11404-11416.	1.1	88
97	Fermionic Bell-State Analyzer for Spin Qubits. Science, 2005, 309, 586-588.	6.0	87
98	Carbon nanotubes in electric and magnetic fields. Physical Review B, 2011, 84, .	1.1	86
99	Magnetic texture-induced thermal Hall effects. Physical Review B, 2013, 87, .	1.1	86
100	Spin relaxation in Mn 12 -acetate. Europhysics Letters, 1999, 46, 692-698.	0.7	85
101	Nuclear Magnetism and Electronic Order in C_{13} Nanotubes. Physical Review Letters, 2009, 102, 116403.	2.9	85
102	Circuit QED with hole-spin qubits in Ge/Si nanowire quantum dots. Physical Review B, 2013, 88, .	1.1	85
103	Universal Phase Shift and Nonexponential Decay of Driven Single-Spin Oscillations. Physical Review Letters, 2007, 99, 106803.	2.9	84
104	Direct Rashba spin-orbit interaction in Si and Ge nanowires with different growth directions. Physical Review B, 2018, 97, .	1.1	83
105	Intersubband-induced spin-orbit interaction in quantum wells. Physical Review B, 2008, 78, .	1.1	82
106	Zitterbewegung of electrons and holes in InAs semiconductor quantum wells. Physical Review B, 2006, 73, .	1.1	81
107	Spin electric effects in molecular antiferromagnets. Physical Review B, 2010, 82, .	1.1	81
108	Giant Spin-Orbit Interaction Due to Rotating Magnetic Fields in Graphene Nanoribbons. Physical Review X, 2013, 3, .	2.8	81

#	ARTICLE	IF	CITATIONS
109	Universal quantum computation with hybrid spin-Majorana qubits. Physical Review B, 2016, 94, .	1.1	81
110	Floquet Majorana fermions and parafermions in driven Rashba nanowires. Physical Review B, 2017, 95, .	1.1	81
111	Noise in multiterminal diffusive conductors: Universality, nonlocality, and exchange effects. Physical Review B, 1999, 59, 13054-13066.	1.1	80
112	Singlet-triplet splitting in double quantum dots due to spin-orbit and hyperfine interactions. Physical Review B, 2012, 85, .	1.1	80
113	RKKY interaction in carbon nanotubes and graphene nanoribbons. Physical Review B, 2013, 87, .	1.1	80
114	Josephson junction through a disordered topological insulator with helical magnetization. Physical Review B, 2016, 93, .	1.1	79
115	Period and amplitude halving in mesoscopic rings with spin. Physical Review B, 1991, 43, 13762-13765.	1.1	78
116	Excess spin and the dynamics of antiferromagnetic ferritin. Physical Review B, 1999, 60, 3453-3456.	1.1	78
117	Fermionic and Majorana bound states in hybrid nanowires with non-uniform spin-orbit interaction. European Physical Journal B, 2015, 88, 1.	0.6	76
118	Biexcitons in coupled quantum dots as a source of entangled photons. Physical Review B, 2002, 65, .	1.1	75
119	Molecular states in carbon nanotube double quantum dots. Physical Review B, 2006, 74, .	1.1	75
120	Long-Distance Spin-Spin Coupling via Floating Gates. Physical Review X, 2012, 2, .	2.8	74
121	Correlations between Majorana Fermions Through a Superconductor. Physical Review Letters, 2013, 111, 056802.	2.9	74
122	Quantum-coherent nanoscience. Nature Nanotechnology, 2021, 16, 1318-1329.	15.6	73
123	Electron and Nuclear Spin Dynamics in Antiferromagnetic Molecular Rings. Physical Review Letters, 2001, 86, 5373-5376.	2.9	72
124	Metallization of a Rashba wire by a superconducting layer in the strong-proximity regime. Physical Review B, 2018, 97, .	1.1	71
125	Magnetically Defined Qubits on 3D Topological Insulators. Physical Review Letters, 2013, 111, 106802.	2.9	70
126	Magnonic quantum Hall effect and Wiedemann-Franz law. Physical Review B, 2017, 95, .	1.1	70

#	ARTICLE	IF	CITATIONS
127	Spin susceptibilities, spin densities, and their connection to spin currents. <i>Physical Review B</i> , 2005, 71, .	1.1	69
128	Exponential decay in a spin bath. <i>Physical Review B</i> , 2008, 77, .	1.1	69
129	Spin relaxation at the singlet-triplet crossing in a quantum dot. <i>Physical Review B</i> , 2008, 77, .	1.1	69
130	Helical Modes in Carbon Nanotubes Generated by Strong Electric Fields. <i>Physical Review Letters</i> , 2011, 106, 156809.	2.9	69
131	Long-Distance Entanglement of Spin Qubits via Ferromagnet. <i>Physical Review X</i> , 2013, 3, .	2.8	69
132	Heavy-Hole States in Germanium Hut Wires. <i>Nano Letters</i> , 2016, 16, 6879-6885.	4.5	69
133	Proximity-Induced $\text{I}\ddot{\text{C}}$ Josephson Junctions in Topological Insulators and Kramers Pairs of Majorana Fermions. <i>Physical Review Letters</i> , 2015, 115, 237001.	2.9	68
134	Electric-dipole-induced spin resonance in disordered semiconductors. <i>Nature Physics</i> , 2006, 2, 195-199.	6.5	67
135	High Threshold Error Correction for the Surface Code. <i>Physical Review Letters</i> , 2012, 109, 160503.	2.9	67
136	Hybridization and Spin Decoherence in Heavy-Hole Quantum Dots. <i>Physical Review Letters</i> , 2010, 105, 266603.	2.9	65
137	Decoherence of Majorana qubits by noisy gates. <i>Physical Review B</i> , 2012, 86, .	1.1	65
138	Wentzel-Bardeen singularity and phase diagram for interacting electrons coupled to acoustic phonons in one dimension. <i>Physical Review B</i> , 1994, 50, 12160-12163.	1.1	64
139	Cluster states from Heisenberg interactions. <i>Physical Review A</i> , 2005, 71, .	1.0	64
140	Physical solutions of the Kitaev honeycomb model. <i>Physical Review B</i> , 2011, 84, .	1.1	64
141	Josephson and persistent spin currents in Bose-Einstein condensates of magnons. <i>Physical Review B</i> , 2014, 90, .	1.1	64
142	Free-induction decay and envelope modulations in a narrowed nuclear spin bath. <i>Physical Review B</i> , 2010, 81, .	1.1	63
143	Thermodynamics and spin-tunneling dynamics in ferric wheels with excess spin. <i>Physical Review B</i> , 2001, 64, .	1.1	62
144	Spin-orbit coupling and time-reversal symmetry in quantum gates. <i>Physical Review B</i> , 2003, 68, .	1.1	62

#	ARTICLE	IF	CITATIONS
145	Dynamical Coulomb Blockade and Spin-Entangled Electrons. Physical Review Letters, 2003, 91, 267003.	2.9	62
146	Relaxation of Hole Spins in Quantum Dots via Two-Phonon Processes. Physical Review Letters, 2009, 103, 106601.	2.9	62
147	Majorana fermions in Ge/Si hole nanowires. Physical Review B, 2014, 90, .	1.1	62
148	Magnetic ordering of nuclear spins in an interacting two-dimensional electron gas. Physical Review B, 2008, 77, .	1.1	61
149	Nuclear-spin-induced localization of edge states in two-dimensional topological insulators. Physical Review B, 2017, 96, .	1.1	61
150	Phase Coherence in the Inelastic Cotunneling Regime. Physical Review Letters, 2006, 96, 036804.	2.9	60
151	Quantum Simulation of Many-Body Hamiltonians Using Perturbation Theory with Bounded-Strength Interactions. Physical Review Letters, 2008, 101, 070503.	2.9	60
152	Variational study of the $\nu=1$ quantum Hall ferromagnet in the presence of spin-orbit interaction. Physical Review B, 2003, 67, .	1.1	59
153	Nuclear Spin Ferromagnetic Phase Transition in an Interacting Two Dimensional Electron Gas. Physical Review Letters, 2007, 98, 156401.	2.9	59
154	Low-bias negative differential resistance in graphene nanoribbon superlattices. Physical Review B, 2011, 84, .	1.1	59
155	One-step multiqubit Greenberger-Horne-Zeilinger state generation in a circuit QED system. Physical Review B, 2010, 81, .	1.1	57
156	Helical states in curved bilayer graphene. Physical Review B, 2012, 86, .	1.1	57
157	Incoherent Zener tunneling and its application to molecular magnets. Physical Review B, 2000, 61, 12200-12203.	1.1	56
158	Tunable Magnonic Thermal Hall Effect in Skyrmion Crystal Phases of Ferrimagnets. Physical Review Letters, 2019, 122, 057204.	2.9	56
159	Universality of Shot Noise in Multiterminal Diffusive Conductors. Physical Review Letters, 1998, 80, 4959-4962.	2.9	55
160	Spin-dependent coupling between quantum dots and topological quantum wires. Physical Review B, 2017, 96, .	1.1	55
161	Asymmetric Quantum Shot Noise in Quantum Dots. Physical Review Letters, 2004, 93, 136602.	2.9	53
162	Controlling Spin Qubits in Quantum Dots. Quantum Information Processing, 2004, 3, 115-132.	1.0	53

#	ARTICLE	IF	CITATIONS
163	Tunable g factor and phonon-mediated hole spin relaxation in Ge/Si nanowire quantum dots. Physical Review B, 2013, 87, .	1.1	53
164	Hyperfine-phonon spin relaxation in a single-electron GaAs quantum dot. Nature Communications, 2018, 9, 3454.	5.8	53
165	Floquet second-order topological superconductor driven via ferromagnetic resonance. Physical Review Research, 2019, 1, .	1.3	53
166	Measurement Efficiency and n-Shot Readout of Spin Qubits. Physical Review Letters, 2004, 93, 106804.	2.9	52
167	Efficient Markov chain Monte Carlo algorithm for the surface code. Physical Review A, 2014, 89, .	1.0	52
168	Integer and fractional quantum Hall effect in a strip of stripes. European Physical Journal B, 2014, 87, 1.	0.6	52
169	Spin and charge signatures of topological superconductivity in Rashba nanowires. Physical Review B, 2017, 96, .	1.1	52
170	Quantum non-demolition measurement of an electron spin qubit. Nature Nanotechnology, 2019, 14, 555-560.	15.6	52
171	Dealing with Decoherence. Science, 2009, 324, 1277-1278.	6.0	51
172	Localized End States in Density Modulated Quantum Wires and Rings. Physical Review Letters, 2012, 108, 136803.	2.9	51
173	Quantum Information Processing with Large Nuclear Spins in GaAs Semiconductors. Physical Review Letters, 2002, 89, 207601.	2.9	50
174	Spin interactions, relaxation and decoherence in quantum dots. Solid State Communications, 2009, 149, 1443-1450.	0.9	50
175	Self-correcting quantum memory in a thermal environment. Physical Review A, 2010, 82, .	1.0	50
176	Topological phase detection in Rashba nanowires with a quantum dot. Physical Review B, 2018, 97, .	1.1	50
177	Aharonov-Bohm effect in the chiral Luttinger liquid. Physical Review B, 1997, 56, 9692-9706.	1.1	49
178	Fractional Fermions with Non-Abelian Statistics. Physical Review Letters, 2013, 110, 126402.	2.9	49
179	Topological phases of inhomogeneous superconductivity. Physical Review B, 2016, 93, .	1.1	49
180	Spin currents and magnon dynamics in insulating magnets. Journal Physics D: Applied Physics, 2017, 50, 114004.	1.3	49

#	ARTICLE	IF	CITATIONS
181	Effects of nuclear spins on the transport properties of the edge of two-dimensional topological insulators. <i>Physical Review B</i> , 2018, 97, .	1.1	49
182	Hole Spin Qubits in $\langle \text{Si} \rangle$ FinFETs With Fully Tunable Spin-Orbit Coupling and Sweet Spots for Charge Noise. <i>PRX Quantum</i> , 2021, 2, .	3.5	49
183	Fractional topological superconductivity and parafermion corner states. <i>Physical Review Research</i> , 2019, 1, .	1.3	49
184	Fractional charge and spin states in topological insulator constrictions. <i>Physical Review B</i> , 2015, 92, .	1.1	48
185	Skyrmions Driven by Intrinsic Magnons. <i>Physical Review Letters</i> , 2018, 120, 237203.	2.9	48
186	Superconducting gap renormalization around two magnetic impurities: From Shiba to Andreev bound states. <i>Physical Review B</i> , 2015, 92, .	1.1	47
187	Quantum computing with parafermions. <i>Physical Review B</i> , 2016, 93, .	1.1	47
188	Chiral magnonic edge states in ferromagnetic skyrmion crystals controlled by magnetic fields. <i>Physical Review Research</i> , 2020, 2, .	1.3	47
189	Lower Bound for Electron Spin Entanglement from Beam Splitter Current Correlations. <i>Physical Review Letters</i> , 2003, 91, 087903.	2.9	46
190	Shot noise and spin-orbit coherent control of entangled and spin-polarized electrons. <i>Physical Review B</i> , 2005, 72, .	1.1	46
191	Exchange-based CNOT gates for singlet-triplet qubits with spin-orbit interaction. <i>Physical Review B</i> , 2012, 86, .	1.1	46
192	Electron spins in artificial atoms and molecules for quantum computing. <i>Semiconductor Science and Technology</i> , 2002, 17, 355-366.	1.0	45
193	Cooper-Pair Injection into Quantum Spin Hall Insulators. <i>Physical Review Letters</i> , 2010, 105, 226401.	2.9	45
194	Robust Single-Shot Spin Measurement with 99.5% Fidelity in a Quantum Dot Array. <i>Physical Review Letters</i> , 2017, 119, 017701.	2.9	45
195	Finite-size effects in a nanowire strongly coupled to a thin superconducting shell. <i>Physical Review B</i> , 2017, 96, .	1.1	44
196	Majorana fermions in magnetic chains. <i>Progress in Particle and Nuclear Physics</i> , 2019, 107, 1-19.	5.6	44
197	RKKY interaction on surfaces of topological insulators with superconducting proximity effect. <i>Physical Review B</i> , 2014, 90, .	1.1	43
198	Phonon bottleneck effect leads to observation of quantum tunneling of the magnetization and butterfly hysteresis loops in $(\text{Et}_4\text{N})_3\text{Fe}_2\text{F}_9$. <i>Physical Review B</i> , 2005, 72, .	1.1	42

#	ARTICLE	IF	CITATIONS
199	Integer and fractional quantum anomalous Hall effect in a strip of stripes model. <i>Physical Review B</i> , 2015, 91, .	1.1	42
200	Fermi liquid parameters in two dimensions with spin-orbit interaction. <i>Physical Review B</i> , 2005, 72, .	1.1	41
201	Spin decay in a quantum dot coupled to a quantum point contact. <i>Physical Review B</i> , 2006, 73, .	1.1	41
202	Edge states and enhanced spin-orbit interaction at graphene/graphane interfaces. <i>Physical Review B</i> , 2010, 81, .	1.1	41
203	Holonomic quantum computation with electron spins in quantum dots. <i>Physical Review A</i> , 2010, 81, .	1.0	41
204	Absence of Spontaneous Magnetic Order of Lattice Spins Coupled to Itinerant Interacting Electrons in One and Two Dimensions. <i>Physical Review Letters</i> , 2011, 107, 107201.	2.9	41
205	Hyperfine-induced decoherence in triangular spin-cluster qubits. <i>Physical Review B</i> , 2012, 86, .	1.1	41
206	Topological Edge States and Fractional Quantum Hall Effect from Umklapp Scattering. <i>Physical Review Letters</i> , 2013, 111, 196401.	2.9	41
207	Conductance behavior in nanowires with spin-orbit interaction: A numerical study. <i>Physical Review B</i> , 2014, 90, .	1.1	41
208	Repetition code of 15 qubits. <i>Physical Review A</i> , 2018, 97, .	1.0	41
209	Magnetization in molecular iron rings. <i>Physical Review B</i> , 2001, 63, .	1.1	40
210	Spin-spin coupling in electrostatically coupled quantum dots. <i>Physical Review B</i> , 2007, 75, .	1.1	40
211	Quantum computing with molecular magnets. <i>Inorganica Chimica Acta</i> , 2008, 361, 3740-3745.	1.2	40
212	Energy spectra for quantum wires and two-dimensional electron gases in magnetic fields with Rashba and Dresselhaus spin-orbit interactions. <i>Physical Review B</i> , 2010, 82, .	1.1	40
213	Helical nuclear spin order in a strip of stripes in the quantum Hall regime. <i>European Physical Journal B</i> , 2014, 87, 1.	0.6	40
214	Quantum Dynamics of Skyrmions in Chiral Magnets. <i>Physical Review X</i> , 2017, 7, .	2.8	40
215	Interaction-Stabilized Topological Magnon Insulator in Ferromagnets. <i>Physical Review X</i> , 2021, 11, .	2.8	40
216	Electron spins in quantum dots for spintronics and quantum computation. <i>Solid State Communications</i> , 2001, 119, 229-236.	0.9	39

#	ARTICLE	IF	CITATIONS
217	Highly Entangled Ground States in Tripartite Qubit Systems. <i>Physical Review Letters</i> , 2008, 100, 100502.	2.9	39
218	Controlled-NOT gate for multiparticle qubits and topological quantum computation based on parity measurements. <i>Physical Review A</i> , 2008, 77, .	1.0	39
219	Transport Signatures of Fractional Fermions in Rashba Nanowires. <i>Physical Review Letters</i> , 2014, 112, 196803.	2.9	39
220	Quantum tunneling and dissipation in nanometer-scale magnets. <i>Physica B: Condensed Matter</i> , 1993, 189, 189-203.	1.3	38
221	Grover algorithm for large nuclear spins in semiconductors. <i>Physical Review B</i> , 2003, 68, .	1.1	38
222	Transport through a quantum dot with SU(4) Kondo entanglement. <i>Physical Review B</i> , 2007, 75, .	1.1	38
223	Spin and orbital magnetic response on the surface of a topological insulator. <i>Physical Review B</i> , 2015, 91, .	1.1	38
224	Weak-localization effects and conductance fluctuations: Implications of inhomogeneous magnetic fields. <i>Physical Review B</i> , 1993, 48, 15218-15236.	1.1	37
225	ac Magnetization Transport and Power Absorption in Noninteracting Spin Chains. <i>Physical Review Letters</i> , 2008, 101, 017202.	2.9	37
226	Nuclear spin dynamics and Zeno effect in quantum dots and defect centers. <i>Physical Review B</i> , 2008, 78, .	1.1	37
227	Thermodynamic stability criteria for a quantum memory based on stabilizer and subsystem codes. <i>New Journal of Physics</i> , 2010, 12, 025013.	1.2	37
228	Phonon-mediated decay of singlet-triplet qubits in double quantum dots. <i>Physical Review B</i> , 2014, 89, .	1.1	37
229	Persistent Skyrmion Lattice of Noninteracting Electrons with Spin-Orbit Coupling. <i>Physical Review Letters</i> , 2016, 117, 226401.	2.9	37
230	Local and nonlocal quantum transport due to Andreev bound states in finite Rashba nanowires with superconducting and normal sections. <i>Physical Review B</i> , 2021, 104, .	1.1	37
231	Macroscopic quantum tunneling of ferromagnetic domain walls. <i>Physical Review B</i> , 1997, 56, 8129-8137.	1.1	36
232	Majorana Kramers pairs in Rashba double nanowires with interactions and disorder. <i>Physical Review B</i> , 2018, 97, .	1.1	36
233	Optical detection of single-electron spin decoherence in a quantum dot. <i>Physical Review B</i> , 2004, 69, .	1.1	35
234	RKKY interaction in a disordered two-dimensional electron gas with Rashba and Dresselhaus spin-orbit couplings. <i>Physical Review B</i> , 2010, 82, .	1.1	35

#	ARTICLE	IF	CITATIONS
235	Electrically tunable hole g-factor of an optically active quantum dot for fast spin rotations. Physical Review B, 2015, 91, .	1.1	35
236	Conductance fluctuations in diffusive rings: Berry phase effects and criteria for adiabaticity. Physical Review B, 2000, 62, 10238-10254.	1.1	34
237	Spin dynamics and coherent tunnelling in the molecular magnetic rings Fe ₆ and Fe ₈ . European Physical Journal B, 2002, 27, 487-495.	0.6	34
238	Coulomb Scattering in a 2D Interacting Electron Gas and Production of EPR Pairs. Physical Review Letters, 2004, 92, 246803.	2.9	34
239	Measurement, control, and decay of quantum-dot spins. Physica Status Solidi (B): Basic Research, 2006, 243, 3658-3672.	0.7	34
240	Spin susceptibility of interacting two-dimensional electrons in the presence of spin-orbit coupling. Physical Review B, 2010, 82, .	1.1	34
241	Boundary spin polarization as a robust signature of a topological phase transition in Majorana nanowires. Physical Review B, 2018, 98, .	1.1	34
242	Dynamics of coupled qubits interacting with an off-resonant cavity. Physical Review B, 2006, 73, .	1.1	33
243	Exchange-controlled single-electron-spin rotations in quantum dots. Physical Review B, 2007, 75, .	1.1	33
244	Quantum versus classical hyperfine-induced dynamics in a quantum dot. Journal of Applied Physics, 2007, 101, 081715.	1.1	33
245	Wiedemann-Franz law for magnon transport. Physical Review B, 2015, 92, .	1.1	33
246	Antiferromagnetic nuclear spin helix and topological superconductivity in C ₁₃ nanotubes. Physical Review B, 2015, 92, .	1.1	33
247	Magnonic Quadrupole Topological Insulator in Antiskyrmion Crystals. Physical Review Letters, 2020, 125, 207204.	2.9	33
248	Macroscopic quantum coherence in ferrimagnets. Physical Review B, 1997, 56, 738-746.	1.1	32
249	Spin tunneling and topological selection rules for integer spins. Physical Review B, 2001, 63, .	1.1	32
250	Spin injection across magnetic/nonmagnetic interfaces with finite magnetic layers. Physical Review B, 2005, 71, .	1.1	32
251	Tunable edge magnetism at graphene/graphane interfaces. Physical Review B, 2010, 82, .	1.1	32
252	Role of the electron spin in determining the coherence of the nuclear spins in a quantum dot. Nature Nanotechnology, 2016, 11, 885-889.	15.6	32

#	ARTICLE	IF	CITATIONS
253	Fractional boundary charges in quantum dot arrays with density modulation. Physical Review B, 2016, 94, .	1.1	32
254	Low-field topological threshold in Majorana double nanowires. Physical Review B, 2017, 96, .	1.1	32
255	Molecular spintronics: Coherent spin transfer in coupled quantum dots. Physical Review B, 2004, 69, .	1.1	31
256	Numerical evaluation of convex-roof entanglement measures with applications to spin rings. Physical Review A, 2009, 80, .	1.0	31
257	Local spin susceptibilities of low-dimensional electron systems. Physical Review B, 2013, 88, .	1.1	31
258	Incoherent dynamics in the toric code subject to disorder. Physical Review A, 2012, 85, .	1.0	30
259	Majorana states in inhomogeneous spin ladders. Physical Review B, 2012, 86, .	1.1	30
260	Majorana and parafermion corner states from two coupled sheets of bilayer graphene. Physical Review Research, 2020, 2, .	1.3	29
261	Absence of spontaneous persistent current for interacting fermions in a one-dimensional mesoscopic ring. Physical Review B, 1993, 47, 4619-4630.	1.1	28
262	Enhanced thermal stability of the toric code through coupling to a bosonic bath. Physical Review A, 2013, 88, .	1.0	28
263	Error Correction for Non-Abelian Topological Quantum Computation. Physical Review X, 2014, 4, .	2.8	28
264	Tuning interactions between spins in a superconductor. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	28
265	Bloch oscillations of magnetic solitons in anisotropic spin-1/2 chains. Physical Review B, 1998, 58, 5568-5583.	1.1	27
266	Controlling the Interaction of Electron and Nuclear Spins in a Tunnel-Coupled Quantum Dot. Physical Review Letters, 2011, 106, 046802.	2.9	27
267	Kramers pairs of Majorana corner states in a topological insulator bilayer. Physical Review B, 2020, 102, .	1.1	27
268	Edge-state transport and conductance fluctuations in the metallic phase of the quantum Hall regime. Physical Review Letters, 1993, 71, 4222-4225.	2.9	26
269	Coherent spin quantum dynamics in antiferromagnetic rings. Physica B: Condensed Matter, 2003, 329-333, 1140-1141.	1.3	26
270	Dynamics of the inhomogeneous Dicke model for a single-boson mode coupled to a bath of nonidentical spin-1/2 systems. Physical Review A, 2009, 80, .	1.0	26

#	ARTICLE	IF	CITATIONS
271	Rectification of spin currents in spin chains. Physical Review B, 2011, 84, .	1.1	26
272	Destructive interference of direct and crossed Andreev pairing in a system of two nanowires coupled via an s -wave superconductor. Physical Review B, 2017, 96, .	1.1	26
273	Dynamic spin-Hall effect and driven spin helix for linear spin-orbit interactions. Physical Review B, 2009, 80, .	1.1	25
274	Spin accumulation in diffusive conductors with Rashba and Dresselhaus spin-orbit interaction. Physical Review B, 2010, 81, .	1.1	25
275	Characterization of Spin-Orbit Interactions of GaAs Heavy Holes Using a Quantum Point Contact. Physical Review Letters, 2014, 113, 046801.	2.9	25
276	Improved HDRG decoders for qudit and non-Abelian quantum error correction. New Journal of Physics, 2015, 17, 035017.	1.2	25
277	Detecting topological superconductivity with $\tilde{\tau}$ Josephson junctions. Physical Review B, 2017, 95, .	1.1	25
278	Comment on "Have resonance experiments seen macroscopic quantum coherence in magnetic particles? The case from power absorption". Physical Review Letters, 1993, 71, 4276-4276.	2.9	24
279	Electron Spins in Quantum Dots as Quantum Bits. Journal of Nanoparticle Research, 2000, 2, 401-411.	0.8	24
280	Cotunneling current through quantum dots with phonon-assisted spin-flip processes. Physical Review B, 2006, 73, .	1.1	24
281	Sequential Tunneling through Molecular Spin Rings. Physical Review Letters, 2007, 98, 117203.	2.9	24
282	Ferromagnetic order of nuclear spins coupled to conduction electrons: A combined effect of electron-electron and spin-orbit interactions. Physical Review B, 2012, 85, .	1.1	24
283	Strongly anisotropic spin response as a signature of the helical regime in Rashba nanowires. Physical Review B, 2013, 88, .	1.1	24
284	Impurity-induced quantum phase transitions and magnetic order in conventional superconductors: Competition between bound and quasiparticle states. Physical Review B, 2015, 92, .	1.1	24
285	DIII topological superconductivity with emergent time-reversal symmetry. Physical Review B, 2017, 96, .	1.1	24
286	Lifetime of Majorana qubits in Rashba nanowires with nonuniform chemical potential. Physical Review B, 2018, 98, .	1.1	24
287	Chiral hinge magnons in second-order topological magnon insulators. Physical Review B, 2021, 104, .	1.1	24
288	Majorana bound states in topological insulators without a vortex. Physical Review B, 2021, 104, .	1.1	24

#	ARTICLE	IF	CITATIONS
289	Helical nuclear spin order in two-subband quantum wires. <i>Physical Review B</i> , 2013, 87, .	1.1	23
290	Low-energy properties of fractional helical Luttinger liquids. <i>Physical Review B</i> , 2014, 89, .	1.1	23
291	Proximity effect in a two-dimensional electron gas coupled to a thin superconducting layer. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1263-1271.	1.5	23
292	Observing the Berry phase in diffusive conductors: Necessary conditions for adiabaticity. <i>Physical Review B</i> , 1999, 59, 13328-13337.	1.1	22
293	Renormalization of anticrossings in interacting quantum wires with Rashba and Dresselhaus spin-orbit couplings. <i>Physical Review B</i> , 2014, 89, .	1.1	22
294	Magnon transport through microwave pumping. <i>Physical Review B</i> , 2015, 92, .	1.1	22
295	Long-distance entanglement of spin qubits via quantum Hall edge states. <i>Physical Review B</i> , 2016, 93, .	1.1	22
296	A fast quantum interface between different spin qubit encodings. <i>Nature Communications</i> , 2018, 9, 5066.	5.8	22
297	From fractional boundary charges to quantized Hall conductance. <i>Physical Review B</i> , 2018, 98, .	1.1	22
298	Quadrupole spin polarization as signature of second-order topological superconductors. <i>Physical Review B</i> , 2021, 103, .	1.1	22
299	Mesoscopic Effects in the Fractional Quantum Hall Regime: Chiral Luttinger Liquid versus Fermi Liquid. <i>Physical Review Letters</i> , 1996, 77, 5110-5113.	2.9	21
300	Response: Does Macroscopic Quantum Coherence Occur in Ferritin?. <i>Science</i> , 1996, 272, 425-426.	6.0	21
301	Quantum Spin Dynamics in Molecular Magnets. <i>Monatshefte für Chemie</i> , 2003, 134, 217-233.	0.9	21
302	Reduced visibility of Rabi oscillations in superconducting qubits. <i>Physical Review B</i> , 2005, 71, .	1.1	21
303	Effect of strain on hyperfine-induced hole-spin decoherence in quantum dots. <i>Physical Review B</i> , 2012, 85, .	1.1	21
304	Single-spin manipulation in a double quantum dot in the field of a micromagnet. <i>Physical Review B</i> , 2014, 90, .	1.1	21
305	Entanglement transfer from electron spins to photons in spin light-emitting diodes containing quantum dots. <i>Physical Review B</i> , 2005, 72, .	1.1	20
306	Acoustic phonons and strain in core/shell nanowires. <i>Physical Review B</i> , 2014, 90, .	1.1	20

#	ARTICLE	IF	CITATIONS
307	Superconducting Grid-Bus Surface Code Architecture for Hole-Spin Qubits. <i>Physical Review Letters</i> , 2017, 118, 147701.	2.9	20
308	Hole-spin qubits in Ge nanowire quantum dots: Interplay of orbital magnetic field, strain, and growth direction. <i>Physical Review B</i> , 2022, 105, .	1.1	20
309	PHASE DIAGRAM FOR A LUTTINGER LIQUID COUPLED TO PHONONS IN ONE DIMENSION. <i>International Journal of Modern Physics B</i> , 1995, 09, 495-533.	1.0	19
310	Determining the spin Hall conductance via charge transport. <i>Physical Review B</i> , 2005, 72, .	1.1	19
311	Resonant spin polarization and spin current in a two-dimensional electron gas. <i>Physical Review B</i> , 2007, 75, .	1.1	19
312	Quantum memory coupled to cavity modes. <i>Physical Review B</i> , 2011, 83, .	1.1	19
313	Universal quantum computation with ordered spin-chain networks. <i>Physical Review A</i> , 2011, 84, .	1.0	19
314	Self-correcting quantum memory with a boundary. <i>Physical Review A</i> , 2012, 86, .	1.0	19
315	Fast long-distance control of spin qubits by photon-assisted cotunneling. <i>Physical Review B</i> , 2015, 92, .	1.1	19
316	Degeneracy lifting of Majorana bound states due to electron-phonon interactions. <i>Physical Review B</i> , 2019, 99, .	1.1	19
317	Breakdown of surface-code error correction due to coupling to a bosonic bath. <i>Physical Review A</i> , 2014, 89, .	1.0	18
318	High-efficiency resonant amplification of weak magnetic fields for single spin magnetometry at room temperature. <i>Nature Nanotechnology</i> , 2015, 10, 541-546.	15.6	18
319	Giant magnetochiral anisotropy from quantum-confined surface states of topological insulator nanowires. <i>Nature Nanotechnology</i> , 2022, 17, 696-700.	15.6	18
320	Dynamic generation of topologically protected self-correcting quantum memory. <i>Physical Review A</i> , 2013, 87, .	1.0	17
321	Effect of dissipation on phase periodicity and the quantum dynamics of Josephson junctions. <i>Physical Review A</i> , 1991, 43, 2129-2138.	1.0	16
322	Bloch states of a Bloch wall. <i>Journal of Applied Physics</i> , 1994, 76, 6177-6179.	1.1	16
323	Spintronics and quantum computing: switching mechanisms for qubits. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 10, 452-457.	1.3	16
324	Coulomb scattering cross section in a two-dimensional electron gas and production of entangled electrons. <i>Physical Review B</i> , 2005, 71, .	1.1	16

#	ARTICLE	IF	CITATIONS
325	Anisotropic conductivity of disordered two-dimensional electron gases due to spin-orbit interactions. <i>Physical Review B</i> , 2008, 77, .	1.1	16
326	Quantum Hall Ferromagnetic States and Spin-Orbit Interactions in the Fractional Regime. <i>Physical Review Letters</i> , 2008, 101, 146803.	2.9	16
327	Classical and quantum regimes of the inhomogeneous Dicke model and its Ehrenfest time. <i>Physical Review B</i> , 2010, 82, .	1.1	16
328	Strong electron-electron interactions of a Tomonaga-Luttinger liquid observed in InAs quantum wires. <i>Physical Review B</i> , 2019, 99, .	1.1	16
329	Hinge states in a system of coupled Rashba layers. <i>Physical Review Research</i> , 2020, 2, .	1.3	16
330	Second virial coefficient of an interacting anyon gas. <i>Physical Review Letters</i> , 1991, 67, 294-297.	2.9	15
331	Awschalomet al. reply. <i>Physical Review Letters</i> , 1993, 70, 2199-2199.	2.9	15
332	Butterfly hysteresis and slow relaxation of the magnetization in (Et ₄ N) ₃ Fe ₂ F ₉ : manifestations of a single-molecule magnet. <i>Chemical Physics Letters</i> , 2002, 358, 413-418.	1.2	15
333	Kondo effect and singlet-triplet splitting in coupled quantum dots in a magnetic field. <i>Europhysics Letters</i> , 2003, 62, 83-89.	0.7	15
334	Simplified derivation of the Bethe-ansatz equations for the Dicke model. <i>Physical Review B</i> , 2010, 82, .	1.1	15
335	Crossed Andreev reflection in quantum wires with strong spin-orbit interaction. <i>Physical Review B</i> , 2012, 85, .	1.1	15
336	Quantum charge pumping through fractional fermions in charge density modulated quantum wires and Rashba nanowires. <i>Physical Review B</i> , 2014, 90, .	1.1	15
337	Optimal geometry of lateral GaAs and Si/SiGe quantum dots for electrical control of spin qubits. <i>Physical Review B</i> , 2016, 93, .	1.1	15
338	Entangling spins in double quantum dots and Majorana bound states. <i>Physical Review B</i> , 2019, 99, .	1.1	15
339	Orbital effects of a strong in-plane magnetic field on a gate-defined quantum dot. <i>Physical Review B</i> , 2019, 99, .	1.1	15
340	Pinning of Andreev bound states to zero energy in two-dimensional superconductor- semiconductor Rashba heterostructures. <i>Physical Review B</i> , 2020, 102, .	1.1	15
341	Dephasing by a dynamic asymmetric environment. <i>Physical Review B</i> , 1991, 43, 13252-13261.	1.1	14
342	CHIRALITY CORRELATION OF SPIN SOLITONS: BLOCH WALLS, SPIN- $\hat{A}1/2$ SOLITONS AND HOLES IN A 2D ANTIFERROMAGNETIC BACKGROUND. <i>International Journal of Modern Physics B</i> , 1996, 10, 219-234.	1.0	14

#	ARTICLE	IF	CITATIONS
343	Phase transmittance RBF neural networks. <i>Electronics Letters</i> , 2007, 43, 882.	0.5	14
344	Spin Hall effect due to intersubband-induced spin-orbit interaction in symmetric quantum wells. <i>Physical Review B</i> , 2009, 80, .	1.1	14
345	Spectrum of an Electron Spin Coupled to an Unpolarized Bath of Nuclear Spins. <i>Physical Review Letters</i> , 2011, 106, 106803.	2.9	14
346	Three-dimensional fractional topological insulators in coupled Rashba layers. <i>Physical Review B</i> , 2017, 96, .	1.1	14
347	Renormalization of the quantum dot g -factor in superconducting Rashba nanowires. <i>Physical Review B</i> , 2018, 98, .	1.1	14
348	Rashba sandwiches with topological superconducting phases. <i>Physical Review B</i> , 2018, 97, .	1.1	14
349	Quantum damping of skyrmion crystal eigenmodes due to spontaneous quasiparticle decay. <i>Physical Review Research</i> , 2020, 2, .	1.3	14
350	Correction terms to the \hbar^{-1} -limit of van Hove by the Liouville operator method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1986, 139, 505-525.	1.2	13
351	Comparison between different markov approximations for open spin systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1989, 158, 769-783.	1.2	13
352	Dissipation and Quantum Propagation of Bloch Walls. <i>Europhysics Letters</i> , 1995, 31, 555-560.	0.7	13
353	Rashba spin orbit interaction in a quantum wire superlattice. <i>Physical Review B</i> , 2012, 85, .	1.1	13
354	Anisotropic g -factor in InAs self-assembled quantum dots. <i>Physical Review B</i> , 2014, 89, .	1.1	13
355	g -factor of electrons in gate-defined quantum dots in a strong in-plane magnetic field. <i>Physical Review B</i> , 2018, 98, .	1.1	13
356	Resonant phenomena in compact and extended systems. <i>Physical Review B</i> , 1993, 47, 2689-2706.	1.1	12
357	Nonlinear \ddot{f} model treatment of quantum antiferromagnets in a magnetic field. <i>Annalen Der Physik</i> , 2000, 9, 133-159.	0.9	12
358	Geometric Correlations and Breakdown of Mesoscopic Universality in Spin Transport. <i>Physical Review Letters</i> , 2010, 105, 246807.	2.9	12
359	Spectroscopy of Quantum Dot Orbitals with In-Plane Magnetic Fields. <i>Physical Review Letters</i> , 2019, 122, 207701.	2.9	12
360	Experimental consequences of persistent currents due to the Berry phase. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 215, 197-204.	0.9	11

#	ARTICLE	IF	CITATIONS
361	Relationship between susceptibility and spin stiffness of mesoscopic quantum antiferromagnets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 239, 47-52.	1.2	11
362	Double occupancy errors in quantum computing operations: Corrections to adiabaticity. <i>Physical Review B</i> , 2005, 71, .	1.1	11
363	Interference of heavy holes in an Aharonov-Bohm ring. <i>Physical Review B</i> , 2009, 79, .	1.1	11
364	Momentum dependence of the spin susceptibility in two dimensions: Nonanalytic corrections in the Cooper channel. <i>Physical Review B</i> , 2009, 79, .	1.1	11
365	Effective quantum-memory Hamiltonian from local two-body interactions. <i>Physical Review A</i> , 2014, 90, .	1.0	11
366	Long-distance entanglement of soliton spin qubits in gated nanowires. <i>Physical Review B</i> , 2015, 92, .	1.1	11
367	Dephasing due to Nuclear Spins in Large-Amplitude Electric Dipole Spin Resonance. <i>Physical Review Letters</i> , 2016, 116, 066806.	2.9	11
368	Proposal for a minimal surface code experiment. <i>Physical Review A</i> , 2017, 96, .	1.0	11
369	Long-range interaction between charge and spin qubits in quantum dots. <i>Physical Review B</i> , 2017, 95, .	1.1	11
370	Magnetically confined bound states in Rashba systems. <i>Physical Review Research</i> , 2020, 2, .	1.3	11
371	Laser-Controlled Real- and Reciprocal-Space Topology in Multiferroic Insulators. <i>Physical Review Letters</i> , 2022, 128, 037201.	2.9	11
372	Linear quantum Enskog equation. I. Homogeneous quantum fluids. <i>Journal of Statistical Physics</i> , 1990, 59, 691-723.	0.5	10
373	Quantum Dynamics of Pseudospin Solitons in Double-Layer Quantum Hall Systems. <i>Physical Review Letters</i> , 1999, 83, 1411-1414.	2.9	10
374	Coulomb blockade in the fractional quantum Hall effect regime. <i>Physical Review B</i> , 2000, 62, R16298-R16301.	1.1	10
375	Mesoscopic Resonating Valence Bond System on a Triple Dot. <i>Physical Review Letters</i> , 2006, 96, 106803.	2.9	10
376	Nuclear spin relaxation in Rashba nanowires. <i>Physical Review B</i> , 2014, 90, .	1.1	10
377	Parafermions in a Kagome Lattice of Qubits for Topological Quantum Computation. <i>Physical Review X</i> , 2015, 5, .	2.8	10
378	A new microscopic evaluation method for correlation functions: Long time tails. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1988, 150, 199-243.	1.2	9

#	ARTICLE	IF	CITATIONS
379	A new quantum statistical evaluation method for time correlation functions. Journal of Statistical Physics, 1989, 54, 765-795.	0.5	9
380	Commutation relations for periodic operators. Journal of Physics A, 1992, 25, L235-L239.	1.6	9
381	Macroscopic Quantum Tunneling in Magnetic Proteins. Physical Review Letters, 1993, 71, 4279-4279.	2.9	9
382	Reply to the comment of E. M. Chudnovsky and D. A. Garanin on "Spin relaxation in Mn 12 -acetate". Europhysics Letters, 2000, 52, 247-248.	0.7	9
383	Electron Spins in Quantum Dots as Qubits for Quantum Information Processing. Nanoscience and Technology, 2002, , 229-276.	1.5	9
384	Spin orbit interaction and zitterbewegung in symmetric wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 4330-4333.	0.8	9
385	Carbon surprises again. Nature Physics, 2009, 5, 317-318.	6.5	9
386	NMR response of nuclear-spin helix in quantum wires with hyperfine and spin-orbit interaction. Physical Review B, 2014, 90, .	1.1	9
387	Strongly interacting holes in Ge/Si nanowires. Physical Review B, 2014, 90, .	1.1	9
388	Proposal for a Quantum Magnetic R - C Circuit. Physical Review Letters, 2014, 113, 037201.	2.9	9
389	Field-dependent superradiant quantum phase transition of molecular magnets in microwave cavities. Semiconductor Science and Technology, 2016, 31, 094003.	1.0	9
390	From coupled Rashba electron- and hole-gas layers to three-dimensional topological insulators. Physical Review B, 2016, 93, .	1.1	9
391	Conductance of fractional Luttinger liquids at finite temperatures. Physical Review B, 2018, 98, .	1.1	9
392	Observation of fractional spin textures in a Heusler material. Nature Communications, 2022, 13, 2348.	5.8	9
393	Quantum-statistical kinetic equations. Journal of Statistical Physics, 1989, 56, 175-201.	0.5	8
394	Chiral quantum spin solitons. Journal of Applied Physics, 1996, 79, 6107.	1.1	8
395	Luttinger liquids and composite fermions in nanostructures: what is the nature of the edge states in the fractional quantum Hall regime?. Superlattices and Microstructures, 1997, 21, 49-60.	1.4	8
396	Quantum computation and the production of entangled photons using coupled quantum dots. Superlattices and Microstructures, 2002, 31, 127-140.	1.4	8

#	ARTICLE	IF	CITATIONS
397	Mesoscopic Fluctuations in the Spin-Electric Susceptibility due to Rashba Spin-Orbit Interaction. Physical Review Letters, 2008, 101, 226602.	2.9	8
398	Spin-orbit-induced anisotropic conductivity of a disordered two-dimensional electron gas. Physical Review B, 2009, 80, .	1.1	8
399	Voltage-induced conversion of helical to uniform nuclear spin polarization in a quantum wire. Physical Review B, 2015, 91, .	1.1	8
400	Chiral and nonchiral edge states in quantum Hall systems with charge density modulation. Physical Review B, 2016, 93, .	1.1	8
401	Superconducting Quantum Interference in Edge State Josephson Junctions. Physical Review Letters, 2020, 125, 157701.	2.9	8
402	Universality of Boundary Charge Fluctuations. Physical Review Letters, 2021, 126, 016803.	2.9	8
403	Correction terms to the $\hbar/2\pi$ -limit of van Hove by the Liouville operator method. Physica A: Statistical Mechanics and Its Applications, 1986, 139, 526-542.	1.2	7
404	Title is missing!. Journal of Superconductivity and Novel Magnetism, 2002, 15, 49-65.	0.5	7
405	Spin densities in parabolic quantum wires with Rashba spin-orbit interaction. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 4317-4321.	0.8	7
406	Quantum phenomena in Nanotechnology. Nanotechnology, 2009, 20, 430205-430205.	1.3	7
407	libCreme: An optimization library for evaluating convex-roof entanglement measures. Computer Physics Communications, 2012, 183, 155-165.	3.0	7
408	Finite-temperature conductance of strongly interacting quantum wire with a nuclear spin order. Physical Review B, 2017, 95, .	1.1	7
409	Higher-order spin and charge dynamics in a quantum dot-lead hybrid system. Scientific Reports, 2017, 7, 12201.	1.6	7
410	Quantum-Dot Spin Qubit and Hyperfine Interaction. , 2008, , 17-29.		7
411	Linear quantum enskog equation II. Inhomogeneous quantum fluids. Journal of Statistical Physics, 1990, 61, 467-493.	0.5	6
412	Spin Stiffness of Mesoscopic Quantum Antiferromagnets. Physical Review Letters, 1995, 74, 178-181.	2.9	6
413	Quantum spin dynamics in mesoscopic magnets. Physica E: Low-Dimensional Systems and Nanostructures, 1997, 1, 292-296.	1.3	6
414	Dicke model: Entanglement as a finite size effect. Journal of Physics: Conference Series, 2009, 193, 012134.	0.3	6

#	ARTICLE	IF	CITATIONS
415	Ultrafast magnon transistor at room temperature. <i>Physical Review B</i> , 2013, 88, .	1.1	6
416	Vortex loops and Majoranas. <i>Journal of Mathematical Physics</i> , 2013, 54, 112203.	0.5	6
417	Supercurrent reversal in two-dimensional topological insulators. <i>Physical Review B</i> , 2015, 92, .	1.1	6
418	Majorana zero modes and their bosonization. <i>Physical Review B</i> , 2020, 102, .	1.1	6
419	Insulating regime of an underdamped current-biased Josephson junction supporting $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="double-struck"} \rangle \text{Z} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="double-struck"} \rangle \text{Z} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ parafermions. <i>Physical Review B</i> , 2021, 103, .	1.1	6
420	Metallization and proximity superconductivity in topological insulator nanowires. <i>Physical Review B</i> , 2022, 105, .	1.1	6
421	Coherent dynamics and manipulation of electron spins in nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 9, 175-184.	1.3	5
422	Polynomial-Time Algorithm for Simulation of Weakly Interacting Quantum Spin Systems. <i>Communications in Mathematical Physics</i> , 2008, 284, 481-507.	1.0	5
423	Theory of Spin Qubits in Nanostructures. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 031012.	0.7	5
424	Frequency-dependent transport through a spin chain. <i>Physical Review B</i> , 2012, 85, .	1.1	5
425	Molecular Magnets for Quantum Information Processing. <i>Nanoscience and Technology</i> , 2014, , 275-296.	1.5	5
426	Structure factor of interacting one-dimensional helical systems. <i>Physical Review B</i> , 2014, 89, .	1.1	5
427	Fermi surface resonance and quantum criticality in strongly interacting Fermi gases. <i>Physical Review B</i> , 2021, 103, .	1.1	5
428	Fractional boundary charges with quantized slopes in interacting one- and two-dimensional systems. <i>Physical Review B</i> , 2021, 104, .	1.1	5
429	Quantization of superflow circulation and magnetic flux with a tunable offset. <i>Physical Review B</i> , 1996, 53, 12395-12399.	1.1	4
430	Quantum Dynamics in Mesoscopic Magnetism. , 1998, , 29-75.		4
431	Hyperfine Interactions and Electron Spin-Dynamics in a Quantum Dot. <i>Journal of Superconductivity and Novel Magnetism</i> , 2003, 16, 221-224.	0.5	4
432	Noise of Spin-Polarized Currents at a Beam Splitter with Local Spin-Orbit Interaction. <i>Journal of Superconductivity and Novel Magnetism</i> , 2003, 16, 237-240.	0.5	4

#	ARTICLE	IF	CITATIONS
433	Difference in charge and spin dynamics in a quantum dot-lead coupled system. Physical Review B, 2019, 99, .	1.1	4
434	Magnetic phase transitions in two-dimensional two-valley semiconductors with in-plane magnetic field. Physical Review B, 2021, 103, .	1.1	4
435	Double quantum dot between two superconducting leads. Physica C: Superconductivity and Its Applications, 2001, 352, 162-164.	0.6	3
436	Probing Single-Electron Spin Decoherence in Quantum Dots using Charged Excitons. Journal of Superconductivity and Novel Magnetism, 2005, 18, 175-183.	0.5	3
437	Inhibition of dynamic nuclear polarization by heavy-hole noncollinear hyperfine interactions. Physical Review B, 2015, 92, .	1.1	3
438	Shot Noise for Entangled and Spin-Polarized Electrons. , 2003, , 241-274.		3
439	Spin Parity Effects and Macroscopic Quantum Coherence of Bloch Walls. , 1995, , 319-345.		3
440	The electrical conductivity for inhomogeneous electric fields by the Liouville operator method. Physica A: Statistical Mechanics and Its Applications, 1987, 144, 17-28.	1.2	2
441	Simplified virial expansions in the canonical ensemble. Physica A: Statistical Mechanics and Its Applications, 1989, 155, 373-384.	1.2	2
442	Determining the spin Hall conductance via charge current and noise. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 401-404.	1.3	2
443	Voltage induced spin density in a double quantum well with inversion asymmetry. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1484-1486.	1.3	2
444	Snapshots of spins separating. Nature Physics, 2008, 4, 836-837.	6.5	2
445	Isotropic and Anisotropic g -Factor Corrections in GaAs Quantum Dots. Physical Review Letters, 2021, 127, 057701.	2.9	2
446	Quantum Boltzmann-Lorentz model approach to the line-shape problem. Physical Review A, 1990, 41, 3005-3015.	1.0	1
447	Mesoscopic effects in the fractional quantum Hall regime. Physica E: Low-Dimensional Systems and Nanostructures, 1997, 1, 120-124.	1.3	1
448	Spintronics and Spin-Based Qubits in Quantum Dots. Physica Status Solidi (B): Basic Research, 2001, 224, 855-862.	0.7	1
449	Probing Entanglement via Rashba-Induced Shot Noise Oscillations. Journal of Superconductivity and Novel Magnetism, 2003, 16, 711-718.	0.5	1
450	Discrete Fourier transform in nanostructures using scattering. Journal of Applied Physics, 2004, 95, 8167-8171.	1.1	1

#	ARTICLE	IF	CITATIONS
451	Spin Hall Effect in Symmetric Wells with Two Subbands. Journal of Superconductivity and Novel Magnetism, 2010, 23, 65-68.	0.8	1
452	Magnetic order in nuclear spin two-dimensional lattices due to electron-electron interactions. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 634-638.	1.3	1
453	Electron and Hole Spin Dynamics and Decoherence in Quantum Dots. , 0, , 229-247.		1
454	Hopping conductivity for localized electronic states Liouville space formalism. Physica B: Condensed Matter, 1992, 176, 319-326.	1.3	0
455	Quantum interference effects in inhomogeneous magnetic fields. Physica B: Condensed Matter, 1994, 194-196, 1145-1146.	1.3	0
456	Stability of the conventional fixed point of the nonlinear sigma-model in $(2 + \epsilon)$ -dimensions. Europhysics Letters, 1996, 34, 355-360.	0.7	0
457	Non-Markovian Dynamics of a Localized Electron Spin Due to the Hyperfine Interaction. Hyperfine Interactions, 2004, 158, 235-243.	0.2	0
458	Magnetic Ordering of Nuclear Spins in an Interacting 2D Electron Gas as a Consequence of Non-Analyticities in the 2D Fermi Liquid. Progress of Theoretical Physics Supplement, 2008, 176, 302-321.	0.2	0
459	Magnetic Order in Kondo-Lattice Systems due to Electron-Electron Interactions. , 2008, , .		0
460	Mesoscopic and Disordered Systems. , 2010, , .		0
461	Cotunneling in the $\frac{1}{2}$ quantum Hall regime. Physical Review B, 2012, 86, .	1.1	0
462	Publisher's Note: Rashba spin orbit interaction in a quantum wire superlattice [Phys. Rev. B85, 045306 (2012)]. Physical Review B, 2012, 85, .	1.1	0
463	NOISE OF A QUANTUM-DOT SYSTEM IN THE COTUNNELING REGIME. , 2001, , .		0
464	Quantum Information Processing Using Electron Spins in Quantum Dots. Acta Physica Polonica A, 2001, 100, 109-127.	0.2	0
465	SHOT NOISE AS A TEST OF ENTANGLEMENT AND NONLOCALITY OF ELECTRONS IN MESOSCOPIC SYSTEMS. , 2001, , .		0
466	Shot Noise of Cotunneling Current. , 2003, , 149-172.		0
467	SPIN DECAY IN A QUANTUM DOT COUPLED TO A QUANTUM POINT CONTACT. , 2008, , .		0
468	Persistent Spin Currents in Nanostructures. NATO ASI Series Series B: Physics, 1991, , 539-542.	0.2	0

#	ARTICLE	IF	CITATIONS
469	Phase Periodicity and Dissipation in Quantum Dynamics. NATO ASI Series Series B: Physics, 1991, , 555-558.	0.2	0
470	Persistent Currents and Luttinger Liquids. , 1995, , 199-210.		0
471	Fractional spin excitations and conductance in the spiral-staircase Heisenberg ladder. Physical Review B, 2022, 105, .	1.1	0
472	Probing single-electron spin decoherence in quantum dots using charged excitons. Journal of Superconductivity and Novel Magnetism, 2005, 18, 599-599.	0.5	0