

# Daniel Loss

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

453 papers	34,739 citations	85 h-index	174 g-index
479 ext. papers	38,671 ext. citations	5.2 avg, IF	7.75 L-index

#	Paper	IF	Citations
453	Quantum computation with quantum dots. <i>Physical Review A</i> , <b>1998</b> , 57, 120-126	2.6	4984
452	Quantum computing in molecular magnets. <i>Nature</i> , <b>2001</b> , 410, 789-93	50.4	2363
451	Quantum Information Processing Using Quantum Dot Spins and Cavity QED. <i>Physical Review Letters</i> , <b>1999</b> , 83, 4204-4207	7.4	1590
450	Coupled quantum dots as quantum gates. <i>Physical Review B</i> , <b>1999</b> , 59, 2070-2078	3.3	1192
449	Spin qubits in graphene quantum dots. <i>Nature Physics</i> , <b>2007</b> , 3, 192-196	16.2	804
448	Nonballistic spin-field-effect transistor. <i>Physical Review Letters</i> , <b>2003</b> , 90, 146801	7.4	670
447	Electron spin decoherence in quantum dots due to interaction with nuclei. <i>Physical Review Letters</i> , <b>2002</b> , 88, 186802	7.4	631
446	Andreev tunneling, Coulomb blockade, and resonant transport of nonlocal spin-entangled electrons. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	376
445	Spin qubits with electrically gated polyoxometalate molecules. <i>Nature Nanotechnology</i> , <b>2007</b> , 2, 312-7	28.7	361
444	Hyperfine interaction in a quantum dot: Non-Markovian electron spin dynamics. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	358
443	Phonon-Induced Decay of the Electron Spin in Quantum Dots. <i>Physical Review Letters</i> , <b>2004</b> , 93,	7.4	351
442	Topological superconductivity and Majorana fermions in RKKY systems. <i>Physical Review Letters</i> , <b>2013</b> , 111, 186805	7.4	320
441	Quantum correlations in two-fermion systems. <i>Physical Review A</i> , <b>2001</b> , 64,	2.6	293
440	Suppression of tunneling by interference in half-integer-spin particles. <i>Physical Review Letters</i> , <b>1992</b> , 69, 3232-3235	7.4	270
439	Quantum dot as spin filter and spin memory. <i>Physical Review Letters</i> , <b>2000</b> , 85, 1962-5	7.4	257
438	Macroscopic quantum tunneling in magnetic proteins. <i>Physical Review Letters</i> , <b>1992</b> , 68, 3092-3095	7.4	256
437	Towards a realistic transport modeling in a superconducting nanowire with Majorana fermions. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	250

436	Berry's phase and persistent charge and spin currents in textured mesoscopic rings. <i>Physical Review Letters</i> , <b>1990</b> , 65, 1655-1658	7.4	231
435	Probing entanglement and nonlocality of electrons in a double-dot via transport and noise. <i>Physical Review Letters</i> , <b>2000</b> , 84, 1035-8	7.4	230
434	Prospects for Spin-Based Quantum Computing in Quantum Dots. <i>Annual Review of Condensed Matter Physics</i> , <b>2013</b> , 4, 51-81	19.7	229
433	Quantum information processing and communication. <i>European Physical Journal D</i> , <b>2005</b> , 36, 203-228	1.3	228
432	Electric-dipole-induced spin resonance in quantum dots. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	224
431	Direct measurement of the spin-orbit interaction in a two-electron InAs nanowire quantum dot. <i>Physical Review Letters</i> , <b>2007</b> , 98, 266801	7.4	222
430	Probing atomic structure and Majorana wavefunctions in mono-atomic Fe chains on superconducting Pb surface. <i>Npj Quantum Information</i> , <b>2016</b> , 2,	8.6	213
429	Quantum computing with spin cluster qubits. <i>Physical Review Letters</i> , <b>2003</b> , 90, 047901	7.4	208
428	Electron spin evolution induced by interaction with nuclei in a quantum dot. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	205
427	Schrieffer-Wolff transformation for quantum many-body systems. <i>Annals of Physics</i> , <b>2011</b> , 326, 2793-2826	6.5	204
426	Noise of entangled electrons: Bunching and antibunching. <i>Physical Review B</i> , <b>2000</b> , 61, R16303-R16306	3.3	204
425	Spin decoherence of a heavy hole coupled to nuclear spins in a quantum dot. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	202
424	Double-occupancy errors, adiabaticity, and entanglement of spin qubits in quantum dots. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	195
423	Majorana edge states in interacting one-dimensional systems. <i>Physical Review Letters</i> , <b>2011</b> , 107, 036801	7.4	192
422	Spin relaxation and decoherence of holes in quantum dots. <i>Physical Review Letters</i> , <b>2005</b> , 95, 076805	7.4	192
421	Parity effects in a Luttinger liquid: Diamagnetic and paramagnetic ground states. <i>Physical Review Letters</i> , <b>1992</b> , 69, 343-346	7.4	188
420	Magnetization transport and quantized spin conductance. <i>Physical Review Letters</i> , <b>2003</b> , 90, 167204	7.4	187
419	Zitterbewegung of electronic wave packets in III-V zinc-blende semiconductor quantum wells. <i>Physical Review Letters</i> , <b>2005</b> , 94, 206801	7.4	186

418	Observation of extremely slow hole spin relaxation in self-assembled quantum dots. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	181
417	Majorana qubit decoherence by quasiparticle poisoning. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	175
416	Spin-entangled currents created by a triple quantum dot. <i>Physical Review Letters</i> , <b>2003</b> , 90, 166803	7.4	171
415	Electron spin dynamics in quantum dots and related nanostructures due to hyperfine interaction with nuclei. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, R1809-R1833	1.8	168
414	Spin tunneling and phonon-assisted relaxation in Mn12-acetate. <i>Physical Review B</i> , <b>2000</b> , 61, 1286-1302	3.3	164
413	Singlet-triplet decoherence due to nuclear spins in a double quantum dot. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	163
412	Anisotropic transport in a two-dimensional electron gas in the presence of spin-orbit coupling. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	157
411	Recipes for spin-based quantum computing. <i>Nanotechnology</i> , <b>2005</b> , 16, R27-R49	3.4	156
410	Spin-selective Peierls transition in interacting one-dimensional conductors with spin-orbit interaction. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	155
409	Composite Majorana fermion wave functions in nanowires. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	154
408	Spin-electric coupling in molecular magnets. <i>Physical Review Letters</i> , <b>2008</b> , 101, 217201	7.4	151
407	Quantum computing with molecular spin systems. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 1672-1677		148
406	Quantum computing with antiferromagnetic spin clusters. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	143
405	Spin-Hall conductivity due to Rashba spin-orbit interaction in disordered systems. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	142
404	Nuclear spin state narrowing via gate-controlled Rabi oscillations in a double quantum dot. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	139
403	Spin dynamics in InAs nanowire quantum dots coupled to a transmission line. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	134
402	Persistent currents from Berry's phase in mesoscopic systems. <i>Physical Review B</i> , <b>1992</b> , 45, 13544-13561	3.3	134
401	Detection of single spin decoherence in a quantum dot via charge currents. <i>Physical Review Letters</i> , <b>2001</b> , 86, 4648-51	7.4	132

400	Noise of a quantum dot system in the cotunneling regime. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	130
399	Superconductor coupled to two Luttinger liquids as an entangler for electron spins. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	130
398	Spintronics in MoS2 monolayer quantum wires. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	129
397	Transition from fractional to Majorana fermions in Rashba nanowires. <i>Physical Review Letters</i> , <b>2012</b> , 109, 236801	7.4	128
396	Dissipation effects in spin-Hall transport of electrons and holes. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	125
395	Spin interactions and switching in vertically tunnel-coupled quantum dots. <i>Physical Review B</i> , <b>2000</b> , 62, 2581-2592	3.3	123
394	Time-reversal invariant parafermions in interacting Rashba nanowires. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	122
393	Rashba spin-orbit interaction and shot noise for spin-polarized and entangled electrons. <i>Physical Review Letters</i> , <b>2002</b> , 89, 176401	7.4	119
392	Spin relaxation and anticrossing in quantum dots: Rashba versus Dresselhaus spin-orbit coupling. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	118
391	Spin-dependent Josephson current through double quantum dots and measurement of entangled electron states. <i>Physical Review B</i> , <b>2000</b> , 62, 13569-13572	3.3	114
390	Spin-Hall transport of heavy holes in III-V semiconductor quantum wells. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	112
389	Spin-orbit interaction and anomalous spin relaxation in carbon nanotube quantum dots. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	111
388	Macroscopic Quantum Coherence in Molecular Magnets. <i>Physical Review Letters</i> , <b>1998</b> , 80, 169-172	7.4	109
387	Quantum computers and quantum coherence. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 200, 202-218	2.8	108
386	Strong spin-orbit interaction and helical hole states in Ge/Si nanowires. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	106
385	DattaDas transistor with enhanced spin control. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2658-2660	3.4	98
384	Cancellation of spin-orbit effects in quantum gates based on the exchange coupling in quantum dots. <i>Physical Review Letters</i> , <b>2002</b> , 88, 047903	7.4	98
383	Spin decay and quantum parallelism. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	98

382	Quantum information is physical. <i>Superlattices and Microstructures</i> , <b>1998</b> , 23, 419-432	2.8	96
381	Transport through a double quantum dot in the sequential tunneling and cotunneling regimes. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	96
380	Majorana Kramers Pairs in Higher-Order Topological Insulators. <i>Physical Review Letters</i> , <b>2018</b> , 121, 1968014	7.4	96
379	Single-spin dynamics and decoherence in a quantum dot via charge transport. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	95
378	Kramers pairs of Majorana fermions and parafermions in fractional topological insulators. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	94
377	Electric dipole spin resonance for heavy holes in quantum dots. <i>Physical Review Letters</i> , <b>2007</b> , 98, 097202	7.4	93
376	Thin-film magnetization dynamics on the surface of a topological insulator. <i>Physical Review Letters</i> , <b>2012</b> , 108, 187201	7.4	92
375	Rigorous Born approximation and beyond for the spin-boson model. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	91
374	Spintronics and Quantum Dots for Quantum Computing and Quantum Communication. <i>Fortschritte Der Physik</i> , <b>2000</b> , 48, 965-986	5.7	91
373	Spin-orbit interaction in symmetric wells with two subbands. <i>Physical Review Letters</i> , <b>2007</b> , 99, 076603	7.4	90
372	Berry's phase and quantum dynamics of ferromagnetic solitons. <i>Physical Review B</i> , <b>1996</b> , 53, 3237-3255	3.3	90
371	Topological Floquet Phases in Driven Coupled Rashba Nanowires. <i>Physical Review Letters</i> , <b>2016</b> , 116, 176401	7.4	89
370	Nuclear magnetism and electron order in interacting one-dimensional conductors. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	89
369	Hyperfine interaction and electron-spin decoherence in graphene and carbon nanotube quantum dots. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	88
368	Josephson current and proximity effect in Luttinger liquids. <i>Physical Review B</i> , <b>1996</b> , 53, 1548-1557	3.3	84
367	Quantum memories at finite temperature. <i>Reviews of Modern Physics</i> , <b>2016</b> , 88,	40.5	83
366	Fermionic bell-state analyzer for spin qubits. <i>Science</i> , <b>2005</b> , 309, 586-8	33.3	82
365	Spin relaxation in Mn 12 -acetate. <i>Europhysics Letters</i> , <b>1999</b> , 46, 692-698	1.6	82

364	Parafermions in an interacting nanowire bundle. <i>Physical Review Letters</i> , <b>2014</b> , 112, 246403	7.4	81
363	Electric-field-induced Majorana fermions in armchair carbon nanotubes. <i>Physical Review Letters</i> , <b>2012</b> , 108, 196804	7.4	81
362	Period and amplitude halving in mesoscopic rings with spin. <i>Physical Review B</i> , <b>1991</b> , 43, 13762-13765	3.3	76
361	Carbon nanotubes in electric and magnetic fields. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	75
360	Zitterbewegung of electrons and holes in III/V semiconductor quantum wells. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	75
359	Physical optimization of quantum error correction circuits. <i>Physical Review B</i> , <b>1999</b> , 60, 11404-11416	3.3	75
358	Nuclear magnetism and electronic order in $^{13}\text{C}$ nanotubes. <i>Physical Review Letters</i> , <b>2009</b> , 102, 116403	7.4	74
357	Universal phase shift and nonexponential decay of driven single-spin oscillations. <i>Physical Review Letters</i> , <b>2007</b> , 99, 106803	7.4	73
356	Spin electric effects in molecular antiferromagnets. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	72
355	Noise in multiterminal diffusive conductors: Universality, nonlocality, and exchange effects. <i>Physical Review B</i> , <b>1999</b> , 59, 13054-13066	3.3	71
354	Molecular states in carbon nanotube double quantum dots. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	70
353	RKKY interaction in carbon nanotubes and graphene nanoribbons. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	68
352	Excess spin and the dynamics of antiferromagnetic ferritin. <i>Physical Review B</i> , <b>1999</b> , 60, 3453-3456	3.3	67
351	Fermionic and Majorana bound states in hybrid nanowires with non-uniform spin-orbit interaction. <i>European Physical Journal B</i> , <b>2015</b> , 88, 1	1.2	66
350	Magnonic topological insulators in antiferromagnets. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	65
349	Correlations between Majorana fermions through a superconductor. <i>Physical Review Letters</i> , <b>2013</b> , 111, 056802	7.4	65
348	Singlet-triplet splitting in double quantum dots due to spin-orbit and hyperfine interactions. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	64
347	Biexcitons in coupled quantum dots as a source of entangled photons. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	64

- 346 Spin susceptibilities, spin densities, and their connection to spin currents. *Physical Review B*, **2005**, 71, 3.3 63
- 345 Electron and nuclear spin dynamics in antiferromagnetic molecular rings. *Physical Review Letters*, **2001**, 86, 5373-6 7.4 63
- 344 Helical modes in carbon nanotubes generated by strong electric fields. *Physical Review Letters*, **2011**, 106, 156809 7.4 62
- 343 Exponential decay in a spin bath. *Physical Review B*, **2008**, 77, 3.3 62
- 342 Magnetically defined qubits on 3D topological insulators. *Physical Review Letters*, **2013**, 111, 106802 7.4 61
- 341 Universal quantum computation with hybrid spin-Majorana qubits. *Physical Review B*, **2016**, 94, 3.3 60
- 340 Long-Distance Spin-Spin Coupling via Floating Gates. *Physical Review X*, **2012**, 2, 9.1 60
- 339 Cluster states from Heisenberg interactions. *Physical Review A*, **2005**, 71, 2.6 60
- 338 Floquet Majorana fermions and parafermions in driven Rashba nanowires. *Physical Review B*, **2017**, 95, 3.3 59
- 337 Spin relaxation at the singlet-triplet crossing in a quantum dot. *Physical Review B*, **2008**, 77, 3.3 59
- 336 Electric-dipole-induced spin resonance in disordered semiconductors. *Nature Physics*, **2006**, 2, 195-199 16.2 59
- 335 Spin-orbit coupling and time-reversal symmetry in quantum gates. *Physical Review B*, **2003**, 68, 3.3 59
- 334 Dynamical Coulomb blockade and spin-entangled electrons. *Physical Review Letters*, **2003**, 91, 267003 7.4 59
- 333 Topological Magnons and Edge States in Antiferromagnetic Skyrmion Crystals. *Physical Review Letters*, **2019**, 122, 187203 7.4 58
- 332 Second-Order Topological Superconductivity in p-Junction Rashba Layers. *Physical Review Letters*, **2019**, 122, 126402 7.4 58
- 331 Majorana bound states in magnetic skyrmions. *Physical Review B*, **2016**, 93, 3.3 58
- 330 Giant Spin-Orbit Interaction Due to Rotating Magnetic Fields in Graphene Nanoribbons. *Physical Review X*, **2013**, 3, 9.1 58
- 329 Proximity-Induced p-Josephson Junctions in Topological Insulators and Kramers Pairs of Majorana Fermions. *Physical Review Letters*, **2015**, 115, 237001 7.4 58



328	Relaxation of hole spins in quantum dots via two-phonon processes. <i>Physical Review Letters</i> , <b>2009</b> , 103, 106601	7.4	58
327	Intersubband-induced spin-orbit interaction in quantum wells. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	58
326	Phase coherence in the inelastic cotunneling regime. <i>Physical Review Letters</i> , <b>2006</b> , 96, 036804	7.4	58
325	Hybridization and spin decoherence in heavy-hole quantum dots. <i>Physical Review Letters</i> , <b>2010</b> , 105, 266603	7.4	57
324	Variational study of the $\nu = 1$ quantum Hall ferromagnet in the presence of spin-orbit interaction. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	57
323	Zero-energy Andreev bound states from quantum dots in proximitized Rashba nanowires. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	57
322	Magnetic ordering of nuclear spins in an interacting two-dimensional electron gas. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	56
321	Thermodynamics and spin-tunneling dynamics in ferric wheels with excess spin. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	56
320	Wentzel-Bardeen singularity and phase diagram for interacting electrons coupled to acoustic phonons in one dimension. <i>Physical Review B</i> , <b>1994</b> , 50, 12160-12163	3.3	56
319	The germanium quantum information route. <i>Nature Reviews Materials</i> , <b>2020</b> ,	73.3	56
318	Magnonic quantum Hall effect and Wiedemann-Franz law. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	55
317	Circuit QED with hole-spin qubits in Ge/Si nanowire quantum dots. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	55
316	Free-induction decay and envelope modulations in a narrowed nuclear spin bath. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	55
315	Josephson junction through a disordered topological insulator with helical magnetization. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	54
314	Decoherence of Majorana qubits by noisy gates. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	54
313	Nuclear spin ferromagnetic phase transition in an interacting two dimensional electron gas. <i>Physical Review Letters</i> , <b>2007</b> , 98, 156401	7.4	53
312	Magnetic texture-induced thermal Hall effects. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	52
311	One-step multiqubit Greenberger-Horne-Zeilinger state generation in a circuit QED system. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	52

310	Asymmetric quantum shot noise in quantum dots. <i>Physical Review Letters</i> , <b>2004</b> , 93, 136602	7.4	52
309	Low-bias negative differential resistance in graphene nanoribbon superlattices. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	51
308	Universality of Shot Noise in Multiterminal Diffusive Conductors. <i>Physical Review Letters</i> , <b>1998</b> , 80, 4959-4962	7.4	51
307	Quantum simulation of many-body Hamiltonians using perturbation theory with bounded-strength interactions. <i>Physical Review Letters</i> , <b>2008</b> , 101, 070503	7.4	50
306	Incoherent Zener tunneling and its application to molecular magnets. <i>Physical Review B</i> , <b>2000</b> , 61, 122003-122034	3.3	49
305	High threshold error correction for the surface code. <i>Physical Review Letters</i> , <b>2012</b> , 109, 160503	7.4	47
304	Aharonov-Bohm effect in the chiral Luttinger liquid. <i>Physical Review B</i> , <b>1997</b> , 56, 9692-9706	3.3	47
303	Measurement efficiency and n-shot readout of spin qubits. <i>Physical Review Letters</i> , <b>2004</b> , 93, 106804	7.4	47
302	Helical states in curved bilayer graphene. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	46
301	Controlling Spin Qubits in Quantum Dots. <i>Quantum Information Processing</i> , <b>2004</b> , 3, 115-132	1.6	46
300	Shot noise and spin-orbit coherent control of entangled and spin-polarized electrons. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	46
299	Quantum information processing with large nuclear spins in GaAs semiconductors. <i>Physical Review Letters</i> , <b>2002</b> , 89, 207601	7.4	46
298	Fractional fermions with non-Abelian statistics. <i>Physical Review Letters</i> , <b>2013</b> , 110, 126402	7.4	45
297	Majorana fermions in Ge/Si hole nanowires. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	45
296	Localized end states in density modulated quantum wires and rings. <i>Physical Review Letters</i> , <b>2012</b> , 108, 136803	7.4	45
295	Josephson and persistent spin currents in Bose-Einstein condensates of magnons. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	44
294	Self-correcting quantum memory in a thermal environment. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	44
293	Physical solutions of the Kitaev honeycomb model. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	44

292	Physics. Dealing with decoherence. <i>Science</i> , <b>2009</b> , 324, 1277-8	33.3	44
291	Lower bound for electron spin entanglement from beam splitter current correlations. <i>Physical Review Letters</i> , <b>2003</b> , 91, 087903	7.4	44
290	Heavy-Hole States in Germanium Hut Wires. <i>Nano Letters</i> , <b>2016</b> , 16, 6879-6885	11.5	44
289	Integer and fractional quantum Hall effect in a strip of stripes. <i>European Physical Journal B</i> , <b>2014</b> , 87, 1	1.2	43
288	Long-Distance Entanglement of Spin Qubits via Ferromagnet. <i>Physical Review X</i> , <b>2013</b> , 3,	9.1	43
287	Spin interactions, relaxation and decoherence in quantum dots. <i>Solid State Communications</i> , <b>2009</b> , 149, 1443-1450	1.6	43
286	Efficient Markov chain Monte Carlo algorithm for the surface code. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	42
285	Cooper-pair injection into quantum spin Hall insulators. <i>Physical Review Letters</i> , <b>2010</b> , 105, 226401	7.4	42
284	Metallization of a Rashba wire by a superconducting layer in the strong-proximity regime. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	41
283	Nuclear-spin-induced localization of edge states in two-dimensional topological insulators. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	41
282	Edge states and enhanced spin-orbit interaction at graphene/graphane interfaces. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	41
281	Electron spins in artificial atoms and molecules for quantum computing. <i>Semiconductor Science and Technology</i> , <b>2002</b> , 17, 355-366	1.8	41
280	Spin-dependent coupling between quantum dots and topological quantum wires. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	40
279	Fractional charge and spin states in topological insulator constrictions. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	40
278	Tunable g factor and phonon-mediated hole spin relaxation in Ge/Si nanowire quantum dots. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	40
277	Topological phase detection in Rashba nanowires with a quantum dot. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	39
276	Spin-spin coupling in electrostatically coupled quantum dots. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	39
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