

Daniel Loss

List of Publications by Year in Descending Order

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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	Laser-Controlled Real- and Reciprocal-Space Topology in Multiferroic Insulators.. <i>Physical Review Letters</i> , 2022 , 128, 037201	7.4	0
452	Observation of fractional spin textures in a Heusler material.. <i>Nature Communications</i> , 2022 , 13, 2348	17.4	0
451	Quantum-coherent nanoscience. <i>Nature Nanotechnology</i> , 2021 ,	28.7	10
450	Majorana bound states in topological insulators without a vortex. <i>Physical Review B</i> , 2021 , 104,	3.3	6
449	Tuning interactions between spins in a superconductor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
448	Hole Spin Qubits in Si FinFETs With Fully Tunable Spin-Orbit Coupling and Sweet Spots for Charge Noise. <i>PRX Quantum</i> , 2021 , 2,	6.1	8
447	Interaction-Stabilized Topological Magnon Insulator in Ferromagnets. <i>Physical Review X</i> , 2021 , 11,	9.1	7
446	Isotropic and Anisotropic g-Factor Corrections in GaAs Quantum Dots. <i>Physical Review Letters</i> , 2021 , 127, 057701	7.4	0
445	Chiral hinge magnons in second-order topological magnon insulators. <i>Physical Review B</i> , 2021 , 104,	3.3	4
444	Magnetic phase transitions in two-dimensional two-valley semiconductors with in-plane magnetic field. <i>Physical Review B</i> , 2021 , 103,	3.3	2
443	Quadrupole spin polarization as signature of second-order topological superconductors. <i>Physical Review B</i> , 2021 , 103,	3.3	6
442	Universality of Boundary Charge Fluctuations. <i>Physical Review Letters</i> , 2021 , 126, 016803	7.4	1
441	Pinning of Andreev bound states to zero energy in two-dimensional superconductor-semiconductor Rashba heterostructures. <i>Physical Review B</i> , 2020 , 102,	3.3	5
440	Hinge states in a system of coupled Rashba layers. <i>Physical Review Research</i> , 2020 , 2,	3.9	9
439	Chiral magnonic edge states in ferromagnetic skyrmion crystals controlled by magnetic fields. <i>Physical Review Research</i> , 2020 , 2,	3.9	23
438	Majorana and parafermion corner states from two coupled sheets of bilayer graphene. <i>Physical Review Research</i> , 2020 , 2,	3.9	8
437	Magnetically confined bound states in Rashba systems. <i>Physical Review Research</i> , 2020 , 2,	3.9	4

436	Quantum damping of skyrmion crystal eigenmodes due to spontaneous quasiparticle decay. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
435	Majorana zero modes and their bosonization. <i>Physical Review B</i> , 2020 , 102,	3.3	1
434	Superconducting Quantum Interference in Edge State Josephson Junctions. <i>Physical Review Letters</i> , 2020 , 125, 157701	7.4	3
433	Magnonic Quadrupole Topological Insulator in Antiskyrmion Crystals. <i>Physical Review Letters</i> , 2020 , 125, 207204	7.4	14
432	Kramers pairs of Majorana corner states in a topological insulator bilayer. <i>Physical Review B</i> , 2020 , 102,	3.3	5
431	The germanium quantum information route. <i>Nature Reviews Materials</i> , 2020 ,	73.3	56
430	Majorana fermions in magnetic chains. <i>Progress in Particle and Nuclear Physics</i> , 2019 , 107, 1-19	10.6	15
429	Degeneracy lifting of Majorana bound states due to electron-phonon interactions. <i>Physical Review B</i> , 2019 , 99,	3.3	7
428	Spectroscopy of Quantum Dot Orbitals with In-Plane Magnetic Fields. <i>Physical Review Letters</i> , 2019 , 122, 207701	7.4	9
427	Topological Magnons and Edge States in Antiferromagnetic Skyrmion Crystals. <i>Physical Review Letters</i> , 2019 , 122, 187203	7.4	58
426	Strong electron-electron interactions of a Tomonaga-Luttinger liquid observed in InAs quantum wires. <i>Physical Review B</i> , 2019 , 99,	3.3	9
425	Quantum non-demolition measurement of an electron spin qubit. <i>Nature Nanotechnology</i> , 2019 , 14, 555-560	28.9	25
424	Second-Order Topological Superconductivity in Junction Rashba Layers. <i>Physical Review Letters</i> , 2019 , 122, 126402	7.4	58
423	Entangling spins in double quantum dots and Majorana bound states. <i>Physical Review B</i> , 2019 , 99,	3.3	6
422	Orbital effects of a strong in-plane magnetic field on a gate-defined quantum dot. <i>Physical Review B</i> , 2019 , 99,	3.3	10
421	Tunable Magnonic Thermal Hall Effect in Skyrmion Crystal Phases of Ferrimagnets. <i>Physical Review Letters</i> , 2019 , 122, 057204	7.4	28
420	Difference in charge and spin dynamics in a quantum dot-lead coupled system. <i>Physical Review B</i> , 2019 , 99,	3.3	2
419	Floquet second-order topological superconductor driven via ferromagnetic resonance. <i>Physical Review Research</i> , 2019 , 1,	3.9	21

418	Fractional topological superconductivity and parafermion corner states. <i>Physical Review Research</i> , 2019 , 1,	3.9	21
417	Metallization of a Rashba wire by a superconducting layer in the strong-proximity regime. <i>Physical Review B</i> , 2018 , 97,	3.3	41
416	Majorana Kramers pairs in Rashba double nanowires with interactions and disorder. <i>Physical Review B</i> , 2018 , 97,	3.3	24
415	Topological phase detection in Rashba nanowires with a quantum dot. <i>Physical Review B</i> , 2018 , 97,	3.3	39
414	Effects of nuclear spins on the transport properties of the edge of two-dimensional topological insulators. <i>Physical Review B</i> , 2018 , 97,	3.3	28
413	Conductance of fractional Luttinger liquids at finite temperatures. <i>Physical Review B</i> , 2018 , 98,	3.3	4
412	Boundary spin polarization as a robust signature of a topological phase transition in Majorana nanowires. <i>Physical Review B</i> , 2018 , 98,	3.3	26
411	Repetition code of 15 qubits. <i>Physical Review A</i> , 2018 , 97,	2.6	24
410	Direct Rashba spin-orbit interaction in Si and Ge nanowires with different growth directions. <i>Physical Review B</i> , 2018 , 97,	3.3	36
409	Skyrmions Driven by Intrinsic Magnons. <i>Physical Review Letters</i> , 2018 , 120, 237203	7.4	32
408	Majorana Kramers Pairs in Higher-Order Topological Insulators. <i>Physical Review Letters</i> , 2018 , 121, 196801	7.4	96
407	Zero-energy Andreev bound states from quantum dots in proximitized Rashba nanowires. <i>Physical Review B</i> , 2018 , 98,	3.3	57
406	A fast quantum interface between different spin qubit encodings. <i>Nature Communications</i> , 2018 , 9, 50661	7.4	12
405	g-factor of electrons in gate-defined quantum dots in a strong in-plane magnetic field. <i>Physical Review B</i> , 2018 , 98,	3.3	9
404	From fractional boundary charges to quantized Hall conductance. <i>Physical Review B</i> , 2018 , 98,	3.3	12
403	Renormalization of the quantum dot g-factor in superconducting Rashba nanowires. <i>Physical Review B</i> , 2018 , 98,	3.3	9
402	Proximity effect in a two-dimensional electron gas coupled to a thin superconducting layer. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 1263-1271	3	14
401	Hyperfine-phonon spin relaxation in a single-electron GaAs quantum dot. <i>Nature Communications</i> , 2018 , 9, 3454	17.4	37

400	Lifetime of Majorana qubits in Rashba nanowires with nonuniform chemical potential. <i>Physical Review B</i> , 2018 , 98,	3.3	13
399	Rashba sandwiches with topological superconducting phases. <i>Physical Review B</i> , 2018 , 97,	3.3	7
398	Spin currents and magnon dynamics in insulating magnets. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 114004	3	32
397	Magnonic quantum Hall effect and Wiedemann-Franz law. <i>Physical Review B</i> , 2017 , 95,	3.3	55
396	Finite-temperature conductance of strongly interacting quantum wire with a nuclear spin order. <i>Physical Review B</i> , 2017 , 95,	3.3	7
395	Proposal for a minimal surface code experiment. <i>Physical Review A</i> , 2017 , 96,	2.6	9
394	Detecting topological superconductivity with \bar{D} Josephson junctions. <i>Physical Review B</i> , 2017 , 95,	3.3	15
393	Nuclear-spin-induced localization of edge states in two-dimensional topological insulators. <i>Physical Review B</i> , 2017 , 96,	3.3	41
392	Finite-size effects in a nanowire strongly coupled to a thin superconducting shell. <i>Physical Review B</i> , 2017 , 96,	3.3	30
391	Higher-order spin and charge dynamics in a quantum dot-lead hybrid system. <i>Scientific Reports</i> , 2017 , 7, 12201	4.9	5
390	Low-field topological threshold in Majorana double nanowires. <i>Physical Review B</i> , 2017 , 96,	3.3	24
389	Floquet Majorana fermions and parafermions in driven Rashba nanowires. <i>Physical Review B</i> , 2017 , 95,	3.3	59
388	Superconducting Grid-Bus Surface Code Architecture for Hole-Spin Qubits. <i>Physical Review Letters</i> , 2017 , 118, 147701	7.4	11
387	Spin-dependent coupling between quantum dots and topological quantum wires. <i>Physical Review B</i> , 2017 , 96,	3.3	40
386	Destructive interference of direct and crossed Andreev pairing in a system of two nanowires coupled via an s-wave superconductor. <i>Physical Review B</i> , 2017 , 96,	3.3	22
385	Three-dimensional fractional topological insulators in coupled Rashba layers. <i>Physical Review B</i> , 2017 , 96,	3.3	11
384	Magnonic topological insulators in antiferromagnets. <i>Physical Review B</i> , 2017 , 96,	3.3	65
383	Quantum Dynamics of Skyrmions in Chiral Magnets. <i>Physical Review X</i> , 2017 , 7,	9.1	28

382	DIII topological superconductivity with emergent time-reversal symmetry. <i>Physical Review B</i> , 2017 , 96,	3.3	20
381	Robust Single-Shot Spin Measurement with 99.5% Fidelity in a Quantum Dot Array. <i>Physical Review Letters</i> , 2017 , 119, 017701	7.4	33
380	Long-range interaction between charge and spin qubits in quantum dots. <i>Physical Review B</i> , 2017 , 95,	3.3	10
379	Spin and charge signatures of topological superconductivity in Rashba nanowires. <i>Physical Review B</i> , 2017 , 96,	3.3	34
378	Persistent Skyrmion Lattice of Noninteracting Electrons with Spin-Orbit Coupling. <i>Physical Review Letters</i> , 2016 , 117, 226401	7.4	19
377	Universal quantum computation with hybrid spin-Majorana qubits. <i>Physical Review B</i> , 2016 , 94,	3.3	60
376	Quantum computing with parafermions. <i>Physical Review B</i> , 2016 , 93,	3.3	31
375	Topological phases of inhomogeneous superconductivity. <i>Physical Review B</i> , 2016 , 93,	3.3	34
374	Josephson junction through a disordered topological insulator with helical magnetization. <i>Physical Review B</i> , 2016 , 93,	3.3	54
373	Majorana bound states in magnetic skyrmions. <i>Physical Review B</i> , 2016 , 93,	3.3	58
372	Dephasing due to Nuclear Spins in Large-Amplitude Electric Dipole Spin Resonance. <i>Physical Review Letters</i> , 2016 , 116, 066806	7.4	7
371	Topological Floquet Phases in Driven Coupled Rashba Nanowires. <i>Physical Review Letters</i> , 2016 , 116, 176401	7.4	89
370	Long-distance entanglement of spin qubits via quantum Hall edge states. <i>Physical Review B</i> , 2016 , 93,	3.3	14
369	From coupled Rashba electron- and hole-gas layers to three-dimensional topological insulators. <i>Physical Review B</i> , 2016 , 93,	3.3	8
368	Optimal geometry of lateral GaAs and Si/SiGe quantum dots for electrical control of spin qubits. <i>Physical Review B</i> , 2016 , 93,	3.3	14
367	Chiral and nonchiral edge states in quantum Hall systems with charge density modulation. <i>Physical Review B</i> , 2016 , 93,	3.3	6
366	Quantum memories at finite temperature. <i>Reviews of Modern Physics</i> , 2016 , 88,	40.5	83
365	Role of the electron spin in determining the coherence of the nuclear spins in a quantum dot. <i>Nature Nanotechnology</i> , 2016 , 11, 885-889	28.7	23

364	Probing atomic structure and Majorana wavefunctions in mono-atomic Fe chains on superconducting Pb surface. <i>Npj Quantum Information</i> , 2016 , 2,	8.6	213
363	Fractional boundary charges in quantum dot arrays with density modulation. <i>Physical Review B</i> , 2016 , 94,	3.3	23
362	Heavy-Hole States in Germanium Hut Wires. <i>Nano Letters</i> , 2016 , 16, 6879-6885	11.5	44
361	Field-dependent superradiant quantum phase transition of molecular magnets in microwave cavities. <i>Semiconductor Science and Technology</i> , 2016 , 31, 094003	1.8	6
360	Fermionic and Majorana bound states in hybrid nanowires with non-uniform spin-orbit interaction. <i>European Physical Journal B</i> , 2015 , 88, 1	1.2	66
359	Magnon transport through microwave pumping. <i>Physical Review B</i> , 2015 , 92,	3.3	17
358	Superconducting gap renormalization around two magnetic impurities: From Shiba to Andreev bound states. <i>Physical Review B</i> , 2015 , 92,	3.3	26
357	Improved HDRG decoders for qudit and non-Abelian quantum error correction. <i>New Journal of Physics</i> , 2015 , 17, 035017	2.9	17
356	High-efficiency resonant amplification of weak magnetic fields for single spin magnetometry at room temperature. <i>Nature Nanotechnology</i> , 2015 , 10, 541-6	28.7	16
355	Electrically tunable hole g factor of an optically active quantum dot for fast spin rotations. <i>Physical Review B</i> , 2015 , 91,	3.3	27
354	Voltage-induced conversion of helical to uniform nuclear spin polarization in a quantum wire. <i>Physical Review B</i> , 2015 , 91,	3.3	8
353	Fast long-distance control of spin qubits by photon-assisted cotunneling. <i>Physical Review B</i> , 2015 , 92,	3.3	17
352	Inhibition of dynamic nuclear polarization by heavy-hole noncollinear hyperfine interactions. <i>Physical Review B</i> , 2015 , 92,	3.3	3
351	Impurity-induced quantum phase transitions and magnetic order in conventional superconductors: Competition between bound and quasiparticle states. <i>Physical Review B</i> , 2015 , 92,	3.3	17
350	Wiedemann-Franz law for magnon transport. <i>Physical Review B</i> , 2015 , 92,	3.3	20
349	Supercurrent reversal in two-dimensional topological insulators. <i>Physical Review B</i> , 2015 , 92,	3.3	5
348	Antiferromagnetic nuclear spin helix and topological superconductivity in C13 nanotubes. <i>Physical Review B</i> , 2015 , 92,	3.3	27
347	Proximity-Induced π Josephson Junctions in Topological Insulators and Kramers Pairs of Majorana Fermions. <i>Physical Review Letters</i> , 2015 , 115, 237001	7.4	58

- 346 Integer and fractional quantum anomalous Hall effect in a strip of stripes model. *Physical Review B*, **2015**, 91, 3-3 35
- 345 Long-distance entanglement of soliton spin qubits in gated nanowires. *Physical Review B*, **2015**, 92, 3-3 7
- 344 Fractional charge and spin states in topological insulator constrictions. *Physical Review B*, **2015**, 92, 3-3 40
- 343 Parafermions in a Kagome Lattice of Qubits for Topological Quantum Computation. *Physical Review X*, **2015**, 5, 9-1 8
- 342 Spin and orbital magnetic response on the surface of a topological insulator. *Physical Review B*, **2015**, 91, 3-3 30
- 341 Transport signatures of fractional fermions in Rashba nanowires. *Physical Review Letters*, **2014**, 112, 196803 33
- 340 Strongly interacting holes in Ge/Si nanowires. *Physical Review B*, **2014**, 90, 3-3 8
- 339 Effective quantum-memory Hamiltonian from local two-body interactions. *Physical Review A*, **2014**, 90, 2-6 10
- 338 Proposal for a quantum magnetic RC circuit. *Physical Review Letters*, **2014**, 113, 037201 7-4 6
- 337 Acoustic phonons and strain in core/shell nanowires. *Physical Review B*, **2014**, 90, 3-3 14
- 336 Structure factor of interacting one-dimensional helical systems. *Physical Review B*, **2014**, 89, 3-3 5
- 335 Phonon-mediated decay of singlet-triplet qubits in double quantum dots. *Physical Review B*, **2014**, 89, 3-3 33
- 334 Integer and fractional quantum Hall effect in a strip of stripes. *European Physical Journal B*, **2014**, 87, 1 1-2 43
- 333 Helical nuclear spin order in a strip of stripes in the quantum Hall regime. *European Physical Journal B*, **2014**, 87, 1 1-2 34
- 332 Quantum charge pumping through fractional fermions in charge density modulated quantum wires and Rashba nanowires. *Physical Review B*, **2014**, 90, 3-3 14
- 331 Parafermions in an interacting nanowire bundle. *Physical Review Letters*, **2014**, 112, 246403 7-4 81
- 330 Anisotropic g factor in InAs self-assembled quantum dots. *Physical Review B*, **2014**, 89, 3-3 11
- 329 NMR response of nuclear-spin helix in quantum wires with hyperfine and spin-orbit interaction. *Physical Review B*, **2014**, 90, 3-3 8

328	Conductance behavior in nanowires with spin-orbit interaction: A numerical study. <i>Physical Review B</i> , 2014 , 90,	3.3	36
327	Majorana fermions in Ge/Si hole nanowires. <i>Physical Review B</i> , 2014 , 90,	3.3	45
326	Time-reversal invariant parafermions in interacting Rashba nanowires. <i>Physical Review B</i> , 2014 , 90,	3.3	122
325	Low-energy properties of fractional helical Luttinger liquids. <i>Physical Review B</i> , 2014 , 89,	3.3	21
324	Josephson and persistent spin currents in Bose-Einstein condensates of magnons. <i>Physical Review B</i> , 2014 , 90,	3.3	44
323	Breakdown of surface-code error correction due to coupling to a bosonic bath. <i>Physical Review A</i> , 2014 , 89,	2.6	16
322	Kramers pairs of Majorana fermions and parafermions in fractional topological insulators. <i>Physical Review B</i> , 2014 , 90,	3.3	94
321	Renormalization of anticrossings in interacting quantum wires with Rashba and Dresselhaus spin-orbit couplings. <i>Physical Review B</i> , 2014 , 89,	3.3	21
320	Single-spin manipulation in a double quantum dot in the field of a micromagnet. <i>Physical Review B</i> , 2014 , 90,	3.3	17
319	Characterization of spin-orbit interactions of GaAs heavy holes using a quantum point contact. <i>Physical Review Letters</i> , 2014 , 113, 046801	7.4	22
318	Nuclear spin relaxation in Rashba nanowires. <i>Physical Review B</i> , 2014 , 90,	3.3	9
317	RKKY interaction on surfaces of topological insulators with superconducting proximity effect. <i>Physical Review B</i> , 2014 , 90,	3.3	27
316	Error Correction for Non-Abelian Topological Quantum Computation. <i>Physical Review X</i> , 2014 , 4,	9.1	23
315	Efficient Markov chain Monte Carlo algorithm for the surface code. <i>Physical Review A</i> , 2014 , 89,	2.6	42
314	Molecular Magnets for Quantum Information Processing. <i>Nanoscience and Technology</i> , 2014 , 275-296	0.6	4
313	Ultrafast magnon transistor at room temperature. <i>Physical Review B</i> , 2013 , 88,	3.3	5
312	Strongly anisotropic spin response as a signature of the helical regime in Rashba nanowires. <i>Physical Review B</i> , 2013 , 88,	3.3	22
311	Helical nuclear spin order in two-subband quantum wires. <i>Physical Review B</i> , 2013 , 87,	3.3	22

310	Long-Distance Entanglement of Spin Qubits via Ferromagnet. <i>Physical Review X</i> , 2013 , 3,	9.1	43
309	RKKY interaction in carbon nanotubes and graphene nanoribbons. <i>Physical Review B</i> , 2013 , 87,	3.3	68
308	Magnetic texture-induced thermal Hall effects. <i>Physical Review B</i> , 2013 , 87,	3.3	52
307	Giant Spin-Orbit Interaction Due to Rotating Magnetic Fields in Graphene Nanoribbons. <i>Physical Review X</i> , 2013 , 3,	9.1	58
306	Prospects for Spin-Based Quantum Computing in Quantum Dots. <i>Annual Review of Condensed Matter Physics</i> , 2013 , 4, 51-81	19.7	229
305	Fractional fermions with non-Abelian statistics. <i>Physical Review Letters</i> , 2013 , 110, 126402	7.4	45
304	Topological superconductivity and Majorana fermions in RKKY systems. <i>Physical Review Letters</i> , 2013 , 111, 186805	7.4	320
303	Correlations between Majorana fermions through a superconductor. <i>Physical Review Letters</i> , 2013 , 111, 056802	7.4	65
302	Spintronics in MoS2 monolayer quantum wires. <i>Physical Review B</i> , 2013 , 88,	3.3	129
301	Vortex loops and Majoranas. <i>Journal of Mathematical Physics</i> , 2013 , 54, 112203	1.2	5
300	Topological edge states and fractional quantum Hall effect from umklapp scattering. <i>Physical Review Letters</i> , 2013 , 111, 196401	7.4	35
299	Dynamic generation of topologically protected self-correcting quantum memory. <i>Physical Review A</i> , 2013 , 87,	2.6	14
298	Circuit QED with hole-spin qubits in Ge/Si nanowire quantum dots. <i>Physical Review B</i> , 2013 , 88,	3.3	55
297	Magnetically defined qubits on 3D topological insulators. <i>Physical Review Letters</i> , 2013 , 111, 106802	7.4	61
296	Enhanced thermal stability of the toric code through coupling to a bosonic bath. <i>Physical Review A</i> , 2013 , 88,	2.6	24
295	Local spin susceptibilities of low-dimensional electron systems. <i>Physical Review B</i> , 2013 , 88,	3.3	24
294	Towards a realistic transport modeling in a superconducting nanowire with Majorana fermions. <i>Physical Review B</i> , 2013 , 87,	3.3	250
293	Tunable g factor and phonon-mediated hole spin relaxation in Ge/Si nanowire quantum dots. <i>Physical Review B</i> , 2013 , 87,	3.3	40

292	libCreme: An optimization library for evaluating convex-roof entanglement measures. <i>Computer Physics Communications</i> , 2012 , 183, 155-165	4.2	6
291	Rashba spin orbit interaction in a quantum wire superlattice. <i>Physical Review B</i> , 2012 , 85,	3.3	12
290	Majorana states in inhomogeneous spin ladders. <i>Physical Review B</i> , 2012 , 86,	3.3	25
289	Self-correcting quantum memory with a boundary. <i>Physical Review A</i> , 2012 , 86,	2.6	18
288	Transition from fractional to Majorana fermions in Rashba nanowires. <i>Physical Review Letters</i> , 2012 , 109, 236801	7.4	128
287	Exchange-based CNOT gates for singlet-triplet qubits with spin-orbit interaction. <i>Physical Review B</i> , 2012 , 86,	3.3	32
286	Localized end states in density modulated quantum wires and rings. <i>Physical Review Letters</i> , 2012 , 108, 136803	7.4	45
285	Long-Distance Spin-Spin Coupling via Floating Gates. <i>Physical Review X</i> , 2012 , 2,	9.1	60
284	Helical states in curved bilayer graphene. <i>Physical Review B</i> , 2012 , 86,	3.3	46
283	Singlet-triplet splitting in double quantum dots due to spin-orbit and hyperfine interactions. <i>Physical Review B</i> , 2012 , 85,	3.3	64
282	Thin-film magnetization dynamics on the surface of a topological insulator. <i>Physical Review Letters</i> , 2012 , 108, 187201	7.4	92
281	Electric-field-induced Majorana fermions in armchair carbon nanotubes. <i>Physical Review Letters</i> , 2012 , 108, 196804	7.4	81
280	Frequency-dependent transport through a spin chain. <i>Physical Review B</i> , 2012 , 85,	3.3	5
279	Ferromagnetic order of nuclear spins coupled to conduction electrons: A combined effect of electron-electron and spin-orbit interactions. <i>Physical Review B</i> , 2012 , 85,	3.3	20
278	Composite Majorana fermion wave functions in nanowires. <i>Physical Review B</i> , 2012 , 86,	3.3	154
277	Crossed Andreev reflection in quantum wires with strong spin-orbit interaction. <i>Physical Review B</i> , 2012 , 85,	3.3	14
276	Majorana qubit decoherence by quasiparticle poisoning. <i>Physical Review B</i> , 2012 , 85,	3.3	175
275	High threshold error correction for the surface code. <i>Physical Review Letters</i> , 2012 , 109, 160503	7.4	47

274	Decoherence of Majorana qubits by noisy gates. <i>Physical Review B</i> , 2012 , 86,	3.3	54
273	Incoherent dynamics in the toric code subject to disorder. <i>Physical Review A</i> , 2012 , 85,	2.6	27
272	Hyperfine-induced decoherence in triangular spin-cluster qubits. <i>Physical Review B</i> , 2012 , 86,	3.3	34
271	Effect of strain on hyperfine-induced hole-spin decoherence in quantum dots. <i>Physical Review B</i> , 2012 , 85,	3.3	18
270	Rectification of spin currents in spin chains. <i>Physical Review B</i> , 2011 , 84,	3.3	23
269	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	7.4	38
268	Strong spin-orbit interaction and helical hole states in Ge/Si nanowires. <i>Physical Review B</i> , 2011 , 84,	3.3	106
267	Majorana edge states in interacting one-dimensional systems. <i>Physical Review Letters</i> , 2011 , 107, 036801	7.4	192
266	Low-bias negative differential resistance in graphene nanoribbon superlattices. <i>Physical Review B</i> , 2011 , 84,	3.3	51
265	Schrieffer-Wolff transformation for quantum many-body systems. <i>Annals of Physics</i> , 2011 , 326, 2793-2826	6.5	204
264	Carbon nanotubes in electric and magnetic fields. <i>Physical Review B</i> , 2011 , 84,	3.3	75
263	Helical modes in carbon nanotubes generated by strong electric fields. <i>Physical Review Letters</i> , 2011 , 106, 156809	7.4	62
262	Quantum memory coupled to cavity modes. <i>Physical Review B</i> , 2011 , 83,	3.3	18
261	Universal quantum computation with ordered spin-chain networks. <i>Physical Review A</i> , 2011 , 84,	2.6	13
260	Spectrum of an electron spin coupled to an unpolarized bath of nuclear spins. <i>Physical Review Letters</i> , 2011 , 106, 106803	7.4	12
259	Physical solutions of the Kitaev honeycomb model. <i>Physical Review B</i> , 2011 , 84,	3.3	44
258	Controlling the interaction of electron and nuclear spins in a tunnel-coupled quantum dot. <i>Physical Review Letters</i> , 2011 , 106, 046802	7.4	22
257	Cooper-pair injection into quantum spin Hall insulators. <i>Physical Review Letters</i> , 2010 , 105, 226401	7.4	42

256	Classical and quantum regimes of the inhomogeneous Dicke model and its Ehrenfest time. <i>Physical Review B</i> , 2010 , 82,	3.3	14
255	Free-induction decay and envelope modulations in a narrowed nuclear spin bath. <i>Physical Review B</i> , 2010 , 81,	3.3	55
254	Self-correcting quantum memory in a thermal environment. <i>Physical Review A</i> , 2010 , 82,	2.6	44
253	Edge states and enhanced spin-orbit interaction at graphene/graphane interfaces. <i>Physical Review B</i> , 2010 , 81,	3.3	41
252	Hybridization and spin decoherence in heavy-hole quantum dots. <i>Physical Review Letters</i> , 2010 , 105, 266603	3.3	57
251	Thermodynamic stability criteria for a quantum memory based on stabilizer and subsystem codes. <i>New Journal of Physics</i> , 2010 , 12, 025013	2.9	33
250	Spin electric effects in molecular antiferromagnets. <i>Physical Review B</i> , 2010 , 82,	3.3	72
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1	Correction terms to the \hbar -limit of van Hove by the Liouville operator method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1986 , 139, 505-525	3·3	13