

Sankar Das Sarma

List of Publications by Year in descending order

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827
papers

75,180
citations

997

114
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799

247
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841
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841
docs citations

841
times ranked

30061
citing authors

#	ARTICLE	IF	CITATIONS
1	Spintronics: Fundamentals and applications. <i>Reviews of Modern Physics</i> , 2004, 76, 323-410.	45.6	9,479
2	Non-Abelian anyons and topological quantum computation. <i>Reviews of Modern Physics</i> , 2008, 80, 1083-1159.	45.6	4,907
3	Electronic transport in two-dimensional graphene. <i>Reviews of Modern Physics</i> , 2011, 83, 407-470.	45.6	2,857
4	Majorana Fermions and a Topological Phase Transition in Semiconductor-Superconductor Heterostructures. <i>Physical Review Letters</i> , 2010, 105, 077001.	7.8	2,726
5	Generic New Platform for Topological Quantum Computation Using Semiconductor Heterostructures. <i>Physical Review Letters</i> , 2010, 104, 040502.	7.8	1,575
6	Dielectric function, screening, and plasmons in two-dimensional graphene. <i>Physical Review B</i> , 2007, 75, .	3.2	1,572
7	A self-consistent theory for graphene transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18392-18397.	7.1	1,085
8	Carrier Transport in Two-Dimensional Graphene Layers. <i>Physical Review Letters</i> , 2007, 98, 186806.	7.8	1,078
9	Measurement of Scattering Rate and Minimum Conductivity in Graphene. <i>Physical Review Letters</i> , 2007, 99, 246803.	7.8	905
10	High Temperature Ferromagnetism with a Giant Magnetic Moment in Transparent Co-doped SnO_2 . <i>Physical Review Letters</i> , 2003, 91, 077205.	7.8	816
11	Majorana zero modes and topological quantum computation. <i>Npj Quantum Information</i> , 2015, 1, .	6.7	730
12	Acoustic phonon scattering limited carrier mobility in two-dimensional extrinsic graphene. <i>Physical Review B</i> , 2008, 77, .	3.2	707
13	Polaron Percolation in Diluted Magnetic Semiconductors. <i>Physical Review Letters</i> , 2002, 88, 247202.	7.8	659
14	Electron energy levels in GaAs-Ga $_{1-x}$ Al $_x$ heterojunctions. <i>Physical Review B</i> , 1984, 30, 840-848.	3.2	614
15	Nearly Flatbands with Nontrivial Topology. <i>Physical Review Letters</i> , 2011, 106, 236803.	7.8	610
16	Kinetic growth with surface relaxation: Continuum versus atomistic models. <i>Physical Review Letters</i> , 1991, 66, 2348-2351.	7.8	595
17	Topologically Protected Qubits from a Possible Non-Abelian Fractional Quantum Hall State. <i>Physical Review Letters</i> , 2005, 94, 166802.	7.8	546
18	Non-Abelian quantum order in spin-orbit-coupled semiconductors: Search for topological Majorana particles in solid-state systems. <i>Physical Review B</i> , 2010, 82, .	3.2	408

#	ARTICLE	IF	CITATIONS
19	A new universality class for kinetic growth: One-dimensional molecular-beam epitaxy. Physical Review Letters, 1991, 66, 325-328.	7.8	405
20	Flat Bands and Wigner Crystallization in the Honeycomb Optical Lattice. Physical Review Letters, 2007, 99, 070401.	7.8	402
21	Collective excitations in semiconductor superlattices. Physical Review B, 1982, 25, 7603-7618.	3.2	385
22	How to enhance dephasing time in superconducting qubits. Physical Review B, 2008, 77, .	3.2	380
23	Single-particle relaxation time versus scattering time in an impure electron gas. Physical Review B, 1985, 32, 8442-8444.	3.2	351
24	$p_x + i p_y$ from s -Wave Interactions of Fermionic Cold Atoms. Physical Review Letters, 2008, 101, 160401.	7.8	348
25	Hilbert-space structure of a solid-state quantum computer: Two-electron states of a double-quantum-dot artificial molecule. Physical Review A, 2000, 61, .	2.5	344
26	Majorana fermions in semiconductor nanowires. Physical Review B, 2011, 84, .	3.2	332
27	Tuning the Effective Fine Structure Constant in Graphene: Opposing Effects of Dielectric Screening on Short- and Long-Range Potential Scattering. Physical Review Letters, 2008, 101, 146805.	7.8	321
28	Andreev bound states versus Majorana bound states in quantum dot-nanowire-superconductor hybrid structures: Trivial versus topological zero-bias conductance peaks. Physical Review B, 2017, 96, .	3.2	310
29	Collective modes of spatially separated, two-component, two-dimensional plasma in solids. Physical Review B, 1981, 23, 805-815.	3.2	286
30	Temperature-dependent magnetization in diluted magnetic semiconductors. Physical Review B, 2003, 67, .	3.2	273
31	Midgap edge states and pairing symmetry of quasi-one-dimensional organic superconductors. Physical Review B, 2001, 63, .	3.2	262
32	Proposal to stabilize and detect half-quantum vortices in strontium ruthenate thin films: Non-Abelian braiding statistics of vortices in $ap_x + ip_y$ superconductor. Physical Review B, 2006, 73, .	3.2	257
33	Splitting of the zero-bias conductance peak as smoking gun evidence for the existence of the Majorana mode in a superconductor-semiconductor nanowire. Physical Review B, 2012, 86, .	3.2	256
34	Exchange in Silicon-Based Quantum Computer Architecture. Physical Review Letters, 2001, 88, 027903.	7.8	252
35	Quantum Computation using Vortices and Majorana Zero Modes of $ap_x + ip_y$ Superfluid of Fermionic Cold Atoms. Physical Review Letters, 2007, 98, 010506.	7.8	244
36	Diluted Graphene Antiferromagnet. Physical Review Letters, 2007, 99, 116802.	7.8	242

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37	Quantum Entanglement in Neural Network States. <i>Physical Review X</i> , 2017, 7, .	8.9	241
38	Search for Majorana Fermions in Multiband Semiconducting Nanowires. <i>Physical Review Letters</i> , 2011, 106, 127001.	7.8	239
39	Screening and elementary excitations in narrow-channel semiconductor microstructures. <i>Physical Review B</i> , 1985, 32, 1401-1404.	3.2	235
40	Topological Zero-Energy Modes in Gapless Commensurate Aubry-Andr�-Harper Models. <i>Physical Review Letters</i> , 2013, 110, 180403.	7.8	235
41	Ferromagnetism in laser deposited anatase $\text{Ti}_{1-x}\text{Co}_x\text{O}_2$ films. <i>Physical Review B</i> , 2003, 67, .	3.2	232
42	Excitation gap in the fractional quantum Hall effect: Finite layer thickness corrections. <i>Physical Review B</i> , 1986, 33, 2903-2905.	3.2	230
43	Screening-induced temperature-dependent transport in two-dimensional graphene. <i>Physical Review B</i> , 2009, 79, .	3.2	227
44	Machine learning topological states. <i>Physical Review B</i> , 2017, 96, .	3.2	222
45	Quantum simulation of a Fermi-Hubbard model using a semiconductor quantum dot array. <i>Nature</i> , 2017, 548, 70-73.	27.8	220
46	Theory of nuclear-induced spectral diffusion: Spin decoherence of phosphorus donors in Si and GaAs quantum dots. <i>Physical Review B</i> , 2003, 68, .	3.2	219
47	Quantum theory for electron spin decoherence induced by nuclear spin dynamics in semiconductor quantum computer architectures: Spectral diffusion of localized electron spins in the nuclear solid-state environment. <i>Physical Review B</i> , 2006, 74, .	3.2	217
48	Mobility Edge in a Model One-Dimensional Potential. <i>Physical Review Letters</i> , 1988, 61, 2144-2147.	7.8	212
49	Nearest Neighbor Tight Binding Models with an Exact Mobility Edge in One Dimension. <i>Physical Review Letters</i> , 2015, 114, 146601.	7.8	208
50	Spin-Polarized Transport in Inhomogeneous Magnetic Semiconductors: Theory of Magnetic/Nonmagnetic p-n Junctions. <i>Physical Review Letters</i> , 2002, 88, 066603.	7.8	207
51	Many-body interaction effects in doped and undoped graphene: Fermi liquid versus non-Fermi liquid. <i>Physical Review B</i> , 2007, 75, .	3.2	207
52	Collective Coulomb blockade in an array of quantum dots: A Mott-Hubbard approach. <i>Physical Review Letters</i> , 1994, 72, 3590-3593.	7.8	203
53	Charged Impurity-Scattering-Limited Low-Temperature Resistivity of Low-Density Silicon Inversion Layers. <i>Physical Review Letters</i> , 1999, 83, 164-167.	7.8	203
54	Collective Modes of the Massless Dirac Plasma. <i>Physical Review Letters</i> , 2009, 102, 206412.	7.8	197

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55	Plasmon modes of spatially separated double-layer graphene. Physical Review B, 2009, 80, .	3.2	190
56	Predicted Mobility Edges in One-Dimensional Incommensurate Optical Lattices: An Exactly Solvable Model of Anderson Localization. Physical Review Letters, 2010, 104, 070601.	7.8	190
57	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle , \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \rangle$ counterpart of graphene: Cold atoms in the honeycomb optical lattice. Physical Review B, 2008, 77, .	3.2	178
58	Proximity effect at the superconductor–topological insulator interface. Physical Review B, 2010, 81, .	3.2	178
59	Single-Particle Mobility Edge in a One-Dimensional Quasiperiodic Optical Lattice. Physical Review Letters, 2018, 120, 160404.	7.8	178
60	Single-particle relaxation time versus transport scattering time in a two-dimensional graphene layer. Physical Review B, 2008, 77, .	3.2	176
61	Collective modes and skyrmion excitations in grapheneSU(4)quantum Hall ferromagnets. Physical Review B, 2006, 74, .	3.2	173
62	Energy relaxation of hot Dirac fermions in graphene. Physical Review B, 2009, 79, .	3.2	169
63	Many-body exchange-correlation effects in the lowest subband of semiconductor quantum wires. Physical Review B, 1993, 48, 5469-5504.	3.2	165
64	Electron Spin Dephasing due to Hyperfine Interactions with a Nuclear Spin Bath. Physical Review Letters, 2009, 102, 057601.	7.8	165
65	Transition Temperature of Ferromagnetic Semiconductors: A Dynamical Mean Field Study. Physical Review Letters, 2001, 87, 227202.	7.8	164
66	Charge-Fluctuation-Induced Dephasing of Exchange-Coupled Spin Qubits. Physical Review Letters, 2006, 96, 100501.	7.8	164
67	Quantum Phases of the Extended Bose-Hubbard Hamiltonian: Possibility of a Supersolid State of Cold Atoms in Optical Lattices. Physical Review Letters, 2005, 95, 033003.	7.8	162
68	Two-dimensional surface charge transport in topological insulators. Physical Review B, 2010, 82, .	3.2	162
69	Localization, mobility edges, and metal-insulator transition in a class of one-dimensional slowly varying deterministic potentials. Physical Review B, 1990, 41, 5544-5565.	3.2	160
70	Phonon-scattering-limited electron mobilities inAlxGa1-xAs/GaAs heterojunctions. Physical Review B, 1992, 45, 3612-3627.	3.2	159
71	Axial anomaly and longitudinal magnetoresistance of a generic three-dimensional metal. Physical Review B, 2015, 92, .	3.2	159
72	Elementary excitation spectrum of one-dimensional electron systems in confined semiconductor structures: Zero magnetic field. Physical Review B, 1991, 43, 11768-11786.	3.2	157

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73	Theory of thermopower in two-dimensional graphene. Physical Review B, 2009, 80, .	3.2	157
74	Screening, Kohn Anomaly, Friedel Oscillation, and RKKY Interaction in Bilayer Graphene. Physical Review Letters, 2008, 101, 156802.	7.8	156
75	Ground State of Graphene in the Presence of Random Charged Impurities. Physical Review Letters, 2008, 101, 166803.	7.8	155
76	Splitting of Majorana-Fermion Modes due to Intervortex Tunneling in a $p_x + i p_y$ system. Physical Review Letters, 2009, 103, 107001.	7.8	154
77	Transport in chemically doped graphene in the presence of adsorbed molecules. Physical Review B, 2007, 76, .	3.2	153
78	Realizing a robust practical Majorana chain in a quantum-dot-superconductor linear array. Nature Communications, 2012, 3, 964.	12.8	152
79	Spin Relaxation of Conduction Electrons in Polyvalent Metals: Theory and a Realistic Calculation. Physical Review Letters, 1998, 81, 5624-5627.	7.8	151
80	Spin relaxation of conduction electrons. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 1708.	1.6	151
81	Optical evidence for a Weyl semimetal state in pyrochlore Eu_2O_7 . Physical Review B, 2015, 92, .	3.2	151
82	Observation of Many-Body Localization in a One-Dimensional System with a Single-Particle Mobility Edge. Physical Review Letters, 2019, 122, 170403.	7.8	151
83	Robustness of Majorana fermions in proximity-induced superconductors. Physical Review B, 2010, 82, .	3.2	147
84	Spin electronics and spin computation. Solid State Communications, 2001, 119, 207-215.	1.9	144
85	Study of electron-phonon interaction and magneto-optical anomalies in two-dimensionally confined systems. Physical Review B, 1980, 22, 2823-2836.	3.2	142
86	Composite pulses for robust universal control of singlet-triplet qubits. Nature Communications, 2012, 3, 997.	12.8	140
87	Topological flat band models with arbitrary Chern numbers. Physical Review B, 2012, 86, .	3.2	140
88	Plasmon-phonon coupling in graphene. Physical Review B, 2010, 82, .	3.2	138
89	Quantum theory of spectral-diffusion-induced electron spin decoherence. Physical Review B, 2005, 72, .	3.2	136
90	Spin Hall Effect in Doped Semiconductor Structures. Physical Review Letters, 2006, 96, 056601.	7.8	136

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91	Pure quantum dephasing of a solid-state electron spin qubit in a large nuclear spin bath coupled by long-range hyperfine-mediated interactions. Physical Review B, 2009, 79, .	3.2	134
92	Elementary electronic excitations in a quasi-two-dimensional electron gas. Physical Review B, 1987, 36, 5949-5952.	3.2	131
93	Electron spin coherence in semiconductors: Considerations for a spin-based solid-state quantum computer architecture. Physical Review B, 2003, 67, .	3.2	131
94	Quantized Hall effect and quantum phase transitions in coupled two-layer electron systems. Physical Review B, 1993, 47, 4394-4412.	3.2	130
95	Many-body properties of a quasi-one-dimensional semiconductor quantum wire. Physical Review Letters, 1992, 68, 1750-1753.	7.8	129
96	Boltzmann transport and residual conductivity in bilayer graphene. Physical Review B, 2008, 77, .	3.2	129
97	Scale invariance and dynamical correlations in growth models of molecular beam epitaxy. Physical Review E, 1996, 53, 359-388.	2.1	127
98	Theory of carrier transport in bilayer graphene. Physical Review B, 2010, 81, .	3.2	127
99	Analytically Solvable Driven Time-Dependent Two-Level Quantum Systems. Physical Review Letters, 2012, 109, 060401.	7.8	125
100	Mobility edges in one-dimensional bichromatic incommensurate potentials. Physical Review B, 2017, 96, .	3.2	125
101	Interplay of Disorder and Interaction in Majorana Quantum Wires. Physical Review Letters, 2012, 109, 146403.	7.8	124
102	Many-Body Localization and Quantum Nonergodicity in a Model with a Single-Particle Mobility Edge. Physical Review Letters, 2015, 115, 186601.	7.8	123
103	Inelastic carrier lifetime in graphene. Physical Review B, 2007, 76, .	3.2	122
104	Magnetic bipolar transistor. Applied Physics Letters, 2004, 84, 85-87.	3.3	121
105	Disordered RKKY Lattice Mean Field Theory for Ferromagnetism in Diluted Magnetic Semiconductors. Physical Review Letters, 2004, 92, 117201.	7.8	120
106	Electron Spin Decoherence in Isotope-Enriched Silicon. Physical Review Letters, 2010, 105, 187602.	7.8	120
107	Quasiparticle properties of a coupled two-dimensional electron-phonon system. Physical Review B, 1989, 40, 9723-9737.	3.2	118
108	Kinetic super-roughening and anomalous dynamic scaling in nonequilibrium growth models. Physical Review E, 1994, 49, 122-125.	2.1	118

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109	Localization in one-dimensional incommensurate lattices beyond the Aubry-Andr� model. Physical Review A, 2009, 80, .	2.5	118
110	Localization in one-dimensional lattices with non-nearest-neighbor hopping: Generalized Anderson and Aubry-Andr� models. Physical Review B, 2011, 83, .	3.2	118
111	Soft Superconducting Gap in Semiconductor Majorana Nanowires. Physical Review Letters, 2013, 110, 186803.	7.8	118
112	Coulomb scattering lifetime of a two-dimensional electron gas. Physical Review B, 1996, 53, 9964-9967.	3.2	117
113	Finite-Layer Thickness Stabilizes the Pfaffian State for the 5/2 Fractional Quantum Hall Effect: Wave Function Overlap and Topological Degeneracy. Physical Review Letters, 2008, 101, 016807.	7.8	116
114	Proposed universal interatomic potential for elemental tetrahedrally bonded semiconductors. Physical Review B, 1988, 38, 3318-3322.	3.2	115
115	Proposed Experimental Realization of Anderson Localization in Random and Incommensurate Artificially Layered Systems. Physical Review Letters, 1986, 56, 1280-1283.	7.8	114
116	Experimental and materials considerations for the topological superconducting state in electron- and hole-doped semiconductors: Searching for non-Abelian Majorana modes in 1D nanowires and 2D heterostructures. Physical Review B, 2012, 85, .	3.2	114
117	Variational study of polarons in Bose-Einstein condensates. Physical Review A, 2014, 90, .	2.5	113
118	Collective excitation spectra of one-dimensional electron systems. Physical Review B, 1989, 40, 5860-5863.	3.2	112
119	Excitation gaps in fractional quantum Hall states: An exact diagonalization study. Physical Review B, 2002, 66, .	3.2	111
120	Universal Pulse Sequence to Minimize Spin Dephasing in the Central Spin Decoherence Problem. Physical Review Letters, 2008, 100, 160505.	7.8	111
121	Universal quantum computation in a semiconductor quantum wire network. Physical Review A, 2010, 82, .	2.5	110
122	Solid-on-solid rules and models for nonequilibrium growth in 2+1 dimensions. Physical Review Letters, 1992, 69, 3762-3765.	7.8	109
123	Multiple-Pulse Coherence Enhancement of Solid State Spin Qubits. Physical Review Letters, 2007, 98, 077601.	7.8	109
124	Topological states in two-dimensional optical lattices. Physical Review A, 2010, 82, .	2.5	109
125	Topological Yu-Shiba-Rusinov chain from spin-orbit coupling. Physical Review B, 2015, 91, .	3.2	108
126	Helical Hinge Majorana Modes in Iron-Based Superconductors. Physical Review Letters, 2019, 122, 187001.	7.8	108

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127	Quasiparticle spectral function in doped graphene: Electron-electron interaction effects in ARPES. Physical Review B, 2008, 77, .	3.2	107
128	Collective Excitations of Quantum Anomalous Hall Ferromagnets in Twisted Bilayer Graphene. Physical Review Letters, 2020, 124, 046403.	7.8	107
129	Band-gap renormalization in semiconductor quantum wells. Physical Review B, 1990, 41, 8288-8294.	3.2	106
130	Magnetic and transport percolation in diluted magnetic semiconductors. Physical Review B, 2003, 68, .	3.2	106
131	Surface plasmon polaritons in topological Weyl semimetals. Physical Review B, 2016, 93, .	3.2	106
132	Dynamical response of a one-dimensional quantum-wire electron system. Physical Review B, 1996, 54, 1936-1946.	3.2	105
133	Parallel Magnetic Field Induced Giant Magnetoresistance in Low Density Quasi-Two-Dimensional Layers. Physical Review Letters, 2000, 84, 5596-5599.	7.8	105
134	Two-Dimensional Metal-Insulator Transition as a Percolation Transition in a High-Mobility Electron System. Physical Review Letters, 2005, 94, 136401.	7.8	104
135	Discrete models for conserved growth equations. Physical Review Letters, 1994, 72, 2903-2906.	7.8	103
136	Spin-Excitation-Instability-Induced Quantum Phase Transitions in Double-Layer Quantum Hall Systems. Physical Review Letters, 1997, 78, 2453-2456.	7.8	102
137	Double-Layer Quantum Hall Antiferromagnetism at Filling Fraction $\nu = 2/m$ where m is an Odd Integer. Physical Review Letters, 1997, 79, 917-920.	7.8	101
138	Dynamic screening and low-energy collective modes in bilayer graphene. Physical Review B, 2010, 82, .	3.2	101
139	Chiral Rashba spin textures in ultracold Fermi gases. Physical Review B, 2011, 83, .	3.2	101
140	Anderson Localization and the Quantum Phase Diagram of Three Dimensional Disordered Dirac Semimetals. Physical Review Letters, 2015, 115, 076601.	7.8	101
141	Screening of polar interaction in quasi-two-dimensional semiconductor microstructures. Physical Review B, 1985, 31, 5536-5538.	3.2	100
142	Electric Field Effect in Diluted Magnetic Insulator Anatase CoTiO_2 . Physical Review Letters, 2005, 94, 126601.	7.8	100
143	Theory of spin-polarized bipolar transport in magnetic p-n junctions. Physical Review B, 2002, 66, .	3.2	99
144	Theory of carrier mediated ferromagnetism in dilute magnetic oxides. Annals of Physics, 2007, 322, 2618-2634.	2.8	98

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145	Density Inhomogeneity Driven Percolation Metal-Insulator Transition and Dimensional Crossover in Graphene Nanoribbons. <i>Physical Review Letters</i> , 2008, 101, 046404.	7.8	98
146	Activation gaps of fractional quantum Hall effect in the second Landau level. <i>Physical Review B</i> , 2008, 77, .	3.2	98
147	Fractional Quantum Hall State at $\nu = 1/2$ in the Moore-Read Pfaffian. <i>Physical Review Letters</i> , 2010, 104, 076803.	7.8	98
148	Number conserving theory for topologically protected degeneracy in one-dimensional fermions. <i>Physical Review B</i> , 2011, 84, .	3.2	98
149	Role of discrete slab phonons in carrier relaxation in semiconductor quantum wells. <i>Physical Review Letters</i> , 1989, 62, 2305-2308.	7.8	97
150	Many-body theory of energy relaxation in an excited-electron gas via optical-phonon emission. <i>Physical Review B</i> , 1990, 41, 3561-3571.	3.2	97
151	Resistivity of Dilute 2D Electrons in an Undoped GaAs Heterostructure. <i>Physical Review Letters</i> , 2003, 90, 056806.	7.8	97
152	Ballistic hot electron transport in graphene. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	97
153	Theory of charged impurity scattering in two-dimensional graphene. <i>Solid State Communications</i> , 2009, 149, 1072-1079.	1.9	97
154	Zero-bias conductance peak in Majorana wires made of semiconductor/superconductor hybrid structures. <i>Physical Review B</i> , 2012, 86, .	3.2	97
155	Helical order in one-dimensional magnetic atom chains and possible emergence of Majorana bound states. <i>Physical Review B</i> , 2014, 90, .	3.2	97
156	Density Matrix Renormalization Group Study of Incompressible Fractional Quantum Hall States. <i>Physical Review Letters</i> , 2008, 100, 166803.	7.8	96
157	Dephasing of Si spin qubits due to charge noise. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	96
158	Non-Abelian topological order in noncentrosymmetric superconductors with broken time-reversal symmetry. <i>Physical Review B</i> , 2010, 82, .	3.2	96
159	Phonon-Induced Spin Relaxation of Conduction Electrons in Aluminum. <i>Physical Review Letters</i> , 1999, 83, 1211-1214.	7.8	94
160	Gate control of spin dynamics in III-V semiconductor quantum dots. <i>Physical Review B</i> , 2003, 68, .	3.2	94
161	Canted antiferromagnetic and spin-singlet quantum Hall states in double-layer systems. <i>Physical Review B</i> , 1998, 58, 4672-4693.	3.2	93
162	Phonon-Induced Many-Body Renormalization of the Electronic Properties of Graphene. <i>Physical Review Letters</i> , 2007, 99, 236802.	7.8	91

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163	Limit to two-dimensional mobility in modulation-doped GaAs quantum structures: How to achieve a mobility of 100 million. Physical Review B, 2008, 77, .	3.2	91
164	Intrinsic Gap of the $\nu = 5/2$ Quantum Hall State. Physical Review Letters, 2008, 100, 146803.	7.8	91
165	Topological insulators and metals in atomic optical lattices. Physical Review A, 2009, 79, .	2.5	91
166	Electrodynamic response of a harmonic atom in an external magnetic field. Physical Review B, 1991, 43, 5151-5154.	3.2	90
167	Tunneling of anyonic Majorana excitations in topological superconductors. Physical Review B, 2010, 82, .	3.2	90
168	Testable Signatures of Quantum Nonlocality in a Two-Dimensional Chiral $\nu = 1/2$ Wave Superconductor. Physical Review Letters, 2008, 100, 027001.	7.8	87
169	Hyperfine interactions in silicon quantum dots. Physical Review B, 2011, 83, .	3.2	87
170	Density Dependent Exchange Contribution to the Compressibility in Graphene. Physical Review Letters, 2007, 99, 226801.	7.8	86
171	Quantum size effects on the plasma dispersion in quasi-two-dimensional electron systems. Physical Review B, 1984, 29, 2334-2336.	3.2	85
172	Plasmons in Coupled Bilayer Structures. Physical Review Letters, 1998, 81, 4216-4219.	7.8	84
173	Distinguishing topological Majorana bound states from trivial Andreev bound states: Proposed tests through differential tunneling conductance spectroscopy. Physical Review B, 2018, 97, .	3.2	84
174	Quantum Control of Donor Electrons at the Si/SiO ₂ Interface. Physical Review Letters, 2006, 96, 096802.	7.8	83
175	Effective medium theory for disordered two-dimensional graphene. Physical Review B, 2009, 79, .	3.2	83
176	Nonperturbative Master Equation Solution of Central Spin Dephasing Dynamics. Physical Review Letters, 2012, 109, 140403.	7.8	83
177	Disorder-induced temperature-dependent transport in graphene: Puddles, impurities, activation, and diffusion. Physical Review B, 2011, 84, .	3.2	82
178	Rare-Region-Induced Avoided Quantum Criticality in Disordered Three-Dimensional Dirac and Weyl Semimetals. Physical Review X, 2016, 6, .	8.9	82
179	Crossover from quantum to Boltzmann transport in graphene. Physical Review B, 2009, 79, .	3.2	81
180	Valley-Based Noise-Resistant Quantum Computation Using Si Quantum Dots. Physical Review Letters, 2012, 108, 126804.	7.8	81

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181	Density of states of disordered topological superconductor-semiconductor hybrid nanowires. Physical Review B, 2013, 88, .	3.2	81
182	Surface-diffusion-driven kinetic growth on one-dimensional substrates. Physical Review E, 1993, 48, 2575-2594.	2.1	80
183	Observation of percolation-induced two-dimensional metal-insulator transition in a Si MOSFET. Physical Review B, 2009, 79, .	3.2	80
184	Noise-Resistant Control for a Spin Qubit Array. Physical Review Letters, 2013, 110, 140502.	7.8	80
185	Interface roughness, valley-orbit coupling, and valley manipulation in quantum dots. Physical Review B, 2010, 82, .	3.2	79
186	Carrier screening, transport, and relaxation in three-dimensional Dirac semimetals. Physical Review B, 2015, 91, .	3.2	79
187	Quantum Hall effect in double-quantum-well systems. Physical Review B, 1991, 43, 9339-9342.	3.2	78
188	Theory of finite-temperature screening in a disordered two-dimensional electron gas. Physical Review B, 1986, 33, 5401-5405.	3.2	77
189	Scattering mechanisms and Boltzmann transport in graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1022-1025.	2.7	77
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