

Allan H Macdonald

List of Publications by Year in descending order

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522
papers

63,079
citations

668

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544
times ranked

29903
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous Hall effect. <i>Reviews of Modern Physics</i> , 2010, 82, 1539-1592.	16.4	3,276
2	Moiré bands in twisted double-layer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12233-12237.	3.3	1,994
3	Universal Intrinsic Spin Hall Effect. <i>Physical Review Letters</i> , 2004, 92, 126603.	2.9	1,858
4	Observation of Majorana fermions in ferromagnetic atomic chains on a superconductor. <i>Science</i> , 2014, 346, 602-607.	6.0	1,581
5	Photonic topological insulators. <i>Nature Materials</i> , 2013, 12, 233-239.	13.3	1,475
6	Theory of ferromagnetic (III,Mn)V semiconductors. <i>Reviews of Modern Physics</i> , 2006, 78, 809-864.	16.4	1,132
7	Superconductors, orbital magnets and correlated states in magic-angle bilayer graphene. <i>Nature</i> , 2019, 574, 653-657.	13.7	987
8	Intrinsic and Rashba spin-orbit interactions in graphene sheets. <i>Physical Review B</i> , 2006, 74, .	1.1	960
9	Spintronics and pseudospintronics in graphene and topological insulators. <i>Nature Materials</i> , 2012, 11, 409-416.	13.3	934
10	Evidence for moiré excitons in van der Waals heterostructures. <i>Nature</i> , 2019, 567, 71-75.	13.7	933
11	Anomalous Hall Effect in Ferromagnetic Semiconductors. <i>Physical Review Letters</i> , 2002, 88, 207208.	2.9	758
12	Quantum Hall Ferromagnetism in Graphene. <i>Physical Review Letters</i> , 2006, 96, 256602.	2.9	725
13	First Principles Calculation of Anomalous Hall Conductivity in Ferromagnetic bcc Fe. <i>Physical Review Letters</i> , 2004, 92, 037204.	2.9	715
14	Bose-Einstein condensation of excitons in bilayer electron systems. <i>Nature</i> , 2004, 432, 691-694.	13.7	689
15	Graphene: Exploring carbon flatland. <i>Physics Today</i> , 2007, 60, 35-41.	0.3	684
16	Interface-induced phenomena in magnetism. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	672
17	Ferromagnetic semiconductors: moving beyond (Ga,Mn)As. <i>Nature Materials</i> , 2005, 4, 195-202.	13.3	654
18	Magneto-roton theory of collective excitations in the fractional quantum Hall effect. <i>Physical Review B</i> , 1986, 33, 2481-2494.	1.1	645

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19	Spontaneous interlayer coherence in double-layer quantum Hall systems: Charged vortices and Kosterlitz-Thouless phase transitions. <i>Physical Review B</i> , 1995, 51, 5138-5170.	1.1	602
20	Capacitance of carbon-based electrical double-layer capacitors. <i>Nature Communications</i> , 2014, 5, 3317.	5.8	600
21	Quantum Transport of Massless Dirac Fermions. <i>Physical Review Letters</i> , 2007, 98, 076602.	2.9	581
22	Anomalous Hall Effect Arising from Noncollinear Antiferromagnetism. <i>Physical Review Letters</i> , 2014, 112, 017205.	2.9	552
23	Ultrathin high-temperature oxidation-resistant coatings of hexagonal boron nitride. <i>Nature Communications</i> , 2013, 4, 2541.	5.8	536
24	Simulation of Hubbard model physics in WSe ₂ /WS ₂ moiré superlattices. <i>Nature</i> , 2020, 579, 353-358.	13.7	511
25	A relativistic density functional formalism. <i>Journal of Physics C: Solid State Physics</i> , 1979, 12, 2977-2990.	1.5	510
26	A linearised relativistic augmented-plane-wave method utilising approximate pure spin basis functions. <i>Journal of Physics C: Solid State Physics</i> , 1980, 13, 2675-2683.	1.5	500
27	Ab initio theory of gate induced gaps in graphene bilayers. <i>Physical Review B</i> , 2007, 75, .	1.1	498
28	Off-diagonal long-range order, oblique confinement, and the fractional quantum Hall effect. <i>Physical Review Letters</i> , 1987, 58, 1252-1255.	2.9	487
29	Giant Magneto-Optical Kerr Effect and Universal Faraday Effect in Thin-Film Topological Insulators. <i>Physical Review Letters</i> , 2010, 105, 057401.	2.9	448
30	Mutual friction between parallel two-dimensional electron systems. <i>Physical Review Letters</i> , 1991, 66, 1216-1219.	2.9	442
31	Tunable moiré bands and strong correlations in small-twist-angle bilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3364-3369.	3.3	434
32	Collective-Excitation Gap in the Fractional Quantum Hall Effect. <i>Physical Review Letters</i> , 1985, 54, 581-583.	2.9	428
33	Topological antiferromagnetic spintronics. <i>Nature Physics</i> , 2018, 14, 242-251.	6.5	427
34	Graphene bilayers with a twist. <i>Nature Materials</i> , 2020, 19, 1265-1275.	13.3	416
35	Hubbard Model Physics in Transition Metal Dichalcogenide Moiré Bands. <i>Physical Review Letters</i> , 2018, 121, 026402.	2.9	413
36	Spontaneous Quantum Hall States in Chirally Stacked Few-Layer Graphene Systems. <i>Physical Review Letters</i> , 2011, 106, 156801.	2.9	393

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37	Prospects for high temperature ferromagnetism in (Ga,Mn)As semiconductors. Physical Review B, 2005, 72, .	1.1	382
38	Temperature expansion for the Hubbard model. Physical Review B, 1988, 37, 9753-9756.	1.1	380
39	Observation of Plasmarons in Quasi-Freestanding Doped Graphene. Science, 2010, 328, 999-1002.	6.0	375
40	Strong Coulomb drag and broken symmetry in double-layer graphene. Nature Physics, 2012, 8, 896-901.	6.5	365
41	Quantum Anomalous Hall Effect in Graphene Proximity Coupled to an Antiferromagnetic Insulator. Physical Review Letters, 2014, 112, 116404.	2.9	361
42	Theory of Phonon-Mediated Superconductivity in Twisted Bilayer Graphene. Physical Review Letters, 2018, 121, 257001.	2.9	355
43	Topological Insulators in Twisted Transition Metal Dichalcogenide Homobilayers. Physical Review Letters, 2019, 122, 086402.	2.9	333
44	Nonlinear Spin Current and Magnetoresistance of Molecular Tunnel Junctions. Physical Review Letters, 2006, 96, 166804.	2.9	331
45	Strong interface-induced spin-orbit interaction in graphene on WS ₂ . Nature Communications, 2015, 6, 8339.	5.8	314
46	Theory of magnetic anisotropy in Mn ₂ Si ferromagnets. Physical Review B, 2001, 63, .	1.1	312
47	Room-temperature superfluidity in graphene bilayers. Physical Review B, 2008, 78, .	1.1	309
48	Valley Chern numbers and boundary modes in gapped bilayer graphene. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10546-10551.	3.3	309
49	Quantized Hall effect and edge currents. Physical Review B, 1984, 29, 1616-1619.	1.1	296
50	Edge states in the fractional-quantum-Hall-effect regime. Physical Review Letters, 1990, 64, 220-223.	2.9	294
51	Theory of Diluted Magnetic Semiconductor Ferromagnetism. Physical Review Letters, 2000, 84, 5628-5631.	2.9	282
52	Band structure of stacked graphene trilayers. Physical Review B, 2010, 82, .	1.1	279
53	Collapse of integer Hall gaps in a double-quantum-well system. Physical Review Letters, 1990, 65, 775-778.	2.9	264
54	Transport spectroscopy of symmetry-broken insulating states in bilayer graphene. Nature Nanotechnology, 2012, 7, 156-160.	15.6	264

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55	Electronic and magnetic properties of single-layer phosphorous trichalcogenides. <i>Physical Review B</i> , 2016, 94, .	1.1	264
56	Quantum ferromagnetism and phase transitions in double-layer quantum Hall systems. <i>Physical Review Letters</i> , 1994, 72, 732-735.	2.9	262
57	The marvels of moiré materials. <i>Nature Reviews Materials</i> , 2021, 6, 201-206.	23.3	262
58	Nature of the Correlated Insulator States in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2020, 124, 097601.	2.9	258
59	Theory of spin torques and giant magnetoresistance in antiferromagnetic metals. <i>Physical Review B</i> , 2006, 73, .	1.1	255
60	Plasmons and the spectral function of graphene. <i>Physical Review B</i> , 2008, 77, .	1.1	253
61	Origin of band gaps in graphene on hexagonal boron nitride. <i>Nature Communications</i> , 2015, 6, 6308.	5.8	253
62	Antiferromagnetic metal spintronics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 3098-3114.	1.6	252
63	Magnetic and magnetic inverse spin Hall effects in a non-collinear antiferromagnet. <i>Nature</i> , 2019, 565, 627-630.	13.7	252
64	Interlayer coupling in ferromagnetic semiconductor superlattices. <i>Physical Review B</i> , 1999, 59, 9818-9821.	1.1	250
65	Topological Exciton Bands in Moiré Heterojunctions. <i>Physical Review Letters</i> , 2017, 118, 147401.	2.9	248
66	Electronic Cooling in Graphene. <i>Physical Review Letters</i> , 2009, 102, 206410.	2.9	247
67	Exciton band structure of monolayer MoS ₂ . <i>Physical Review B</i> , 2015, 91, .	1.1	246
68	Anomalous Hall effect in a two-dimensional Dirac band: The link between the Kubo-Streda formula and the semiclassical Boltzmann equation approach. <i>Physical Review B</i> , 2007, 75, .	1.1	238
69	Direct measurement of exciton valley coherence in monolayer WSe ₂ . <i>Nature Physics</i> , 2016, 12, 677-682.	6.5	223
70	Theory of spin-charge-coupled transport in a two-dimensional electron gas with Rashba spin-orbit interactions. <i>Physical Review B</i> , 2004, 70, .	1.1	216
71	Ab initio theory of moiré superlattice bands in layered two-dimensional materials. <i>Physical Review B</i> , 2014, 89, .	1.1	216
72	Pseudospin magnetism in graphene. <i>Physical Review B</i> , 2008, 77, .	1.1	213

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73	Chiral decomposition in the electronic structure of graphene multilayers. Physical Review B, 2008, 77, .	1.1	212
74	Quantum anomalous Hall effect in single-layer and bilayer graphene. Physical Review B, 2011, 83, .	1.1	211
75	Charged spin-texture excitations and the Hartree-Fock approximation in the quantum Hall effect. Physical Review B, 1994, 50, 11018-11021.	1.1	210
76	Coulomb drag between disordered two-dimensional electron-gas layers. Physical Review B, 1993, 48, 8203-8209.	1.1	205
77	Double-occupancy errors, adiabaticity, and entanglement of spin qubits in quantum dots. Physical Review B, 2001, 63, .	1.1	205
78	Hydrogenic energy levels in two dimensions at arbitrary magnetic fields. Physical Review B, 1986, 33, 8336-8344.	1.1	203
79	Theory of optical absorption by interlayer excitons in transition metal dichalcogenide heterobilayers. Physical Review B, 2018, 97, .	1.1	199
80	Direct chemical conversion of graphene to boron- and nitrogen- and carbon-containing atomic layers. Nature Communications, 2014, 5, 3193.	5.8	198
81	Correlated Insulating States in Twisted Double Bilayer Graphene. Physical Review Letters, 2019, 123, 197702.	2.9	194
82	Chirality and Correlations in Graphene. Physical Review Letters, 2007, 98, 236601.	2.9	193
83	Bilayer PseudoSpin Field-Effect Transistor (BiSFET): A Proposed New Logic Device. IEEE Electron Device Letters, 2009, 30, 158-160.	2.2	193
84	Many-body theory of trion absorption features in two-dimensional semiconductors. Physical Review B, 2017, 95, .	1.1	193
85	Graphene: Materially Better Carbon. MRS Bulletin, 2010, 35, 289-295.	1.7	191
86	Skyrme Crystal in a Two-Dimensional Electron Gas. Physical Review Letters, 1995, 75, 2562-2565.	2.9	190
87	Semiclassical Spin Transport in Spin-Orbit-Coupled Bands. Physical Review Letters, 2004, 93, 046602.	2.9	188
88	Electrical switching of magnetic order in an orbital Chern insulator. Nature, 2020, 588, 66-70.	18.7	179
89	Double Quantum Well Electron-Hole Systems in Strong Magnetic Fields. Journal of the Physical Society of Japan, 1990, 59, 4211-4214.	0.7	177
90	Topologically Protected Helical States in Minimally Twisted Bilayer Graphene. Physical Review Letters, 2018, 121, 037702.	2.9	175

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91	Collective modes and skyrmion excitations in grapheneSU(4)quantum Hall ferromagnets. Physical Review B, 2006, 74, .	1.1	173
92	How to make a bilayer exciton condensate flow. Nature Physics, 2008, 4, 799-802.	6.5	173
93	Moiré butterflies in twisted bilayer graphene. Physical Review B, 2011, 84, .	1.1	173
94	High-resolution tunnelling spectroscopy of a graphene quartet. Nature, 2010, 467, 185-189.	13.7	171
95	Spontaneous inversion symmetry breaking in graphene bilayers. Physical Review B, 2010, 81, .	1.1	171
96	Electrical switching of the topological anomalous Hall effect in a non-collinear antiferromagnet above room temperature. Nature Electronics, 2018, 1, 172-177.	13.1	165
97	Changing Exchange Bias in Spin Valves with an Electric Current. Physical Review Letters, 2007, 98, 116603.	2.9	164
98	Transport between twisted graphene layers. Physical Review B, 2010, 81, .	1.1	164
99	Carrier density and magnetism in graphene zigzag nanoribbons. Physical Review B, 2009, 79, .	1.1	159
100	Magneto-optical Faraday and Kerr effects in topological insulator films and in other layered quantized Hall systems. Physical Review B, 2011, 84, .	1.1	159
101	Electronic Highways in Bilayer Graphene. Nano Letters, 2011, 11, 3453-3459.	4.5	153
102	Drude weight, plasmon dispersion, and ac conductivity in doped graphene sheets. Physical Review B, 2011, 84, .	1.1	153
103	Quantum kinetic theory of current-induced torques in Rashba ferromagnets. Physical Review B, 2012, 86, .	1.1	150
104	Charge and Spin Hall Conductivity in Metallic Graphene. Physical Review Letters, 2006, 97, 106804.	2.9	148
105	Energy gaps, magnetism, and electric-field effects in bilayer graphene nanoribbons. Physical Review B, 2008, 78, .	1.1	143
106	Theory of Interedge Superexchange in Zigzag Edge Magnetism. Physical Review Letters, 2009, 102, 227205.	2.9	141
107	Theory of Rashba interactions. Physical Review B, 2013, 88, .	1.1	140
108	Fractional quantum Hall effect in a two-dimensional electron-hole fluid. Physical Review B, 1990, 42, 3224-3227.	1.1	139

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109	Character of states near the Fermi level in (Ga,Mn)As: Impurity to valence band crossover. Physical Review B, 2007, 76, .	1.1	139
110	Quantum Melting and Absence of Bose-Einstein Condensation in Two-Dimensional Vortex Matter. Physical Review Letters, 2002, 89, 030403.	2.9	134
111	Valley-Hall kink and edge states in multilayer graphene. Physical Review B, 2011, 84, .	1.1	134
112	Band Offset and Negative Compressibility in Graphene-MoS ₂ Heterostructures. Nano Letters, 2014, 14, 2039-2045.	4.5	134
113	Anomalous Hall effect in paramagnetic two-dimensional systems. Physical Review B, 2003, 68, .	1.1	131
114	Hartree-Fock approximation for response functions and collective excitations in a two-dimensional electron gas with filled Landau levels. Journal of Physics C: Solid State Physics, 1985, 18, 1003-1016.	1.5	130
115	Electronic Structure of Multilayer Graphene. Progress of Theoretical Physics Supplement, 2008, 176, 227-252.	0.2	130
116	Pseudospin anisotropy classification of quantum Hall ferromagnets. Physical Review B, 2000, 63, .	1.1	128
117	Collective Excitations, NMR, and Phase Transitions in Skyrme Crystals. Physical Review Letters, 1997, 78, 4825-4828.	2.9	127
118	Itinerant Ferromagnetism in an Ultracold Atom Fermi Gas. Physical Review Letters, 2005, 95, 230403.	2.9	127
119	Topological superconductivity induced by ferromagnetic metal chains. Physical Review B, 2014, 90, .	1.1	127
120	Curie temperature trends in (III,Mn)V ferromagnetic semiconductors. Physical Review B, 2002, 66, .	1.1	125
121	Quantum theory of quantum Hall smectics. Physical Review B, 2000, 61, 5724-5733.	1.1	124
122	Influence of a transport current on magnetic anisotropy in gyrotropic ferromagnets. Physical Review B, 2009, 80, .	1.1	123
123	First-order phase transitions in a quantum Hall ferromagnet. Nature, 1999, 402, 638-641.	13.7	122
124	Effect of edge roughness on electronic transport in graphene nanoribbon channel metal-oxide-semiconductor field-effect transistors. Applied Physics Letters, 2008, 92, .	1.5	122
125	Phonon renormalization in reconstructed MoS ₂ moiré superlattices. Nature Materials, 2021, 20, 1100-1105.	13.3	121
126	Drag in Paired Electron-Hole Layers. Physical Review Letters, 1996, 76, 2786-2789.	2.9	118

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127	Intra-Landau-Level Cyclotron Resonance in Bilayer Graphene. <i>Physical Review Letters</i> , 2008, 101, 097601.	2.9	118
128	Theory of the SrTiO ₃ surface state two-dimensional electron gas. <i>Physical Review B</i> , 2012, 86, .	1.1	118
129	Local spectroscopy of moiré-induced electronic structure in gate-tunable twisted bilayer graphene. <i>Physical Review B</i> , 2015, 92, .	1.1	114
130	Long-lived charged multiple-exciton complexes in strong magnetic fields. <i>Physical Review B</i> , 1996, 54, R2296-R2299.	1.1	112
131	Theory of magnetic properties and spin-wave dispersion for ferromagnetic (Ga,Mn)As. <i>Physical Review B</i> , 2001, 64, .	1.1	111
132	Monte Carlo study of ferromagnetism in (III,Mn)V semiconductors. <i>Physical Review B</i> , 2001, 64, .	1.1	110
133	Lattice theory of pseudospin ferromagnetism in bilayer graphene: Competing interaction-induced quantum Hall states. <i>Physical Review B</i> , 2011, 83, .	1.1	109
134	Transport Studies of Dual-Gated ABC and ABA Trilayer Graphene: Band Gap Opening and Band Structure Tuning in Very Large Perpendicular Electric Fields. <i>Nano Letters</i> , 2013, 13, 369-373.	4.5	109
135	Theory of ferromagnetism in diluted magnetic semiconductor quantum wells. <i>Physical Review B</i> , 2000, 61, 15606-15609.	1.1	108
136	Velocity-modulation control of electron-wave propagation in graphene. <i>Physical Review B</i> , 2010, 81, .	1.1	107
137	Evidence for a spontaneous gapped state in ultraclean bilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10802-10805.	3.3	107
138	Electronic structure of parallel two-dimensional electron systems in tilted magnetic fields. <i>Physical Review B</i> , 1992, 46, 12554-12559.	1.1	106
139	Landau-level subband structure of electrons on a square lattice. <i>Physical Review B</i> , 1983, 28, 6713-6717.	1.1	105
140	Density functional theory of graphene sheets. <i>Physical Review B</i> , 2008, 78, .	1.1	105
141	Two-dimensional chiral topological superconductivity in Shiba lattices. <i>Nature Communications</i> , 2016, 7, 12297.	5.8	105
142	Strongly correlated excitonic insulator in atomic double layers. <i>Nature</i> , 2021, 598, 585-589.	18.7	105
143	Skyrmions without Sigma Models in Quantum Hall Ferromagnets. <i>Physical Review Letters</i> , 1996, 76, 2153-2156.	2.9	104
144	Collective modes of the two-dimensional Wigner crystal in a strong magnetic field. <i>Physical Review B</i> , 1991, 44, 8759-8773.	1.1	102

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145	Graphene: A pseudochiral Fermi liquid. Solid State Communications, 2007, 143, 58-62.	0.9	102
146	Double-layer graphene and topological insulator thin-film plasmons. Physical Review B, 2012, 85, .	1.1	102
147	Strongly Enhanced Tunneling at Total Charge Neutrality in Double-Bilayer Graphene- $\langle WSe_2 \rangle$ Heterostructures. Physical Review Letters, 2018, 120, 177702.	2.9	102
148	Theory of Interlayer Tunneling in Bilayer Quantum Hall Ferromagnets. Physical Review Letters, 2001, 86, 1829-1832.	2.9	101
149	Photoluminescence in the fractional quantum Hall regime. Physical Review Letters, 1992, 68, 1939-1942.	2.9	99
150	Dissipationless Spin Transport in Thin Film Ferromagnets. Physical Review Letters, 2001, 87, .	2.9	99
151	Accurate tight-binding models for the $\tilde{\epsilon}$ bands of bilayer graphene. Physical Review B, 2014, 89, .	1.1	99
152	Dc-transport properties of ferromagnetic (Ga,Mn)As semiconductors. Applied Physics Letters, 2003, 83, 320-322.	1.5	98
153	Influence of a uniform current on collective magnetization dynamics in a ferromagnetic metal. Physical Review B, 2004, 69, .	1.1	98
154	Temperature Dependence of Itinerant Electron Junction Magnetoresistance. Physical Review Letters, 1998, 81, 705-708.	2.9	95
155	Thermodynamic properties of an interacting two-dimensional electron gas in a strong magnetic field. Physical Review B, 1986, 34, 2681-2689.	1.1	94
156	Functional Keldysh theory of spin torques. Physical Review B, 2007, 75, .	1.1	94
157	Resistance Spikes and Domain Wall Loops in Ising Quantum Hall Ferromagnets. Physical Review Letters, 2001, 87, 216801.	2.9	93
158	Anomalous Hall antiferromagnets. Nature Reviews Materials, 2022, 7, 482-496.	23.3	93
159	Enhanced spin Seebeck effect signal due to spin-momentum locked topological surface states. Nature Communications, 2016, 7, 11458.	5.8	91
160	Magnetic domains in III-V magnetic semiconductors. Physical Review B, 2001, 64, .	1.1	89
161	Theory of the magnetic-field-induced insulator in neutral graphene sheets. Physical Review B, 2009, 80, .	1.1	89
162	Magneto-optical and magnetoelectric effects of topological insulators in quantizing magnetic fields. Physical Review B, 2010, 82, .	1.1	89

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163	Broken-symmetry ground states for the two-dimensional electron gas in a double-quantum-well system. <i>Physical Review B</i> , 1992, 46, 10239-10250.	1.1	87
164	Decoherence processes during optical manipulation of excitonic qubits in semiconductor quantum dots. <i>Physical Review B</i> , 2005, 72, .	1.1	87
165	Helical network model for twisted bilayer graphene. <i>Physical Review B</i> , 2018, 98, .	1.1	87
166	Edge magnetoplasmons in the fractional-quantum-Hall-effect regime. <i>Physical Review B</i> , 1990, 41, 10287-10290.	1.1	86
167	Strong Correlation to Weak Correlation Phase Transition in Bilayer Quantum Hall Systems. <i>Physical Review Letters</i> , 2001, 86, 1849-1852.	2.9	86
168	Thermally Assisted Current-Driven Domain-Wall Motion. <i>Physical Review Letters</i> , 2007, 98, 056605.	2.9	86
169	Transport Properties of Graphene Nanoroads in Boron Nitride Sheets. <i>Nano Letters</i> , 2012, 12, 2936-2940.	4.5	86
170	Coordinate shift in the semiclassical Boltzmann equation and the anomalous Hall effect. <i>Physical Review B</i> , 2006, 73, .	1.1	85
171	Effective screening and the plasmaron bands in graphene. <i>Physical Review B</i> , 2011, 84, .	1.1	85
172	Hartree-Fock theory of Skyrmions in quantum Hall ferromagnets. <i>Physical Review B</i> , 1997, 55, 10671-10680.	1.1	84
173	Current-Induced Torques Due to Compensated Antiferromagnets. <i>Physical Review Letters</i> , 2008, 100, 196801.	2.9	84
174	Theory of two-dimensional spatially indirect equilibrium exciton condensates. <i>Physical Review B</i> , 2015, 92, .	1.1	84
175	$\tilde{\Gamma}$ valley transition metal dichalcogenide moiré bands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	84
176	Spontaneous interlayer coherence in double-layer quantum Hall systems: Symmetry-breaking interactions, in-plane fields, and phase solitons. <i>Physical Review B</i> , 1996, 54, 11644-11658.	1.1	83
177	Edge-spin accumulation in semiconductor two-dimensional hole gases. <i>Physical Review B</i> , 2005, 72, .	1.1	83
178	Finite-temperature screening and the specific heat of doped graphene sheets. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 214015.	0.7	82
179	Quantum Hall effects in graphene-based two-dimensional electron systems. <i>Nanotechnology</i> , 2012, 23, 052001.	1.3	81
180	Magnetic Anisotropy in Quantum Hall Ferromagnets. <i>Physical Review Letters</i> , 1998, 81, 2328-2331.	2.9	80

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181	Transition-metal dimers and physical limits on magnetic anisotropy. <i>Nature Materials</i> , 2007, 6, 648-651.	13.3	80
182	Competing Zero-Field Chern Insulators in Superconducting Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021, 127, 197701.	2.9	80
183	Magnetization relaxation in (Ga,Mn)As ferromagnetic semiconductors. <i>Physical Review B</i> , 2004, 69, .	1.1	79
184	Origin of Universal Optical Conductivity and Optical Stacking Sequence Identification in Multilayer Graphene. <i>Physical Review Letters</i> , 2009, 103, 067402.	2.9	79
185	Nonadiabatic spin-transfer torque in real materials. <i>Physical Review B</i> , 2009, 79, .	1.1	79
186	Landau level mixing and the fractional quantum Hall effect. <i>Physical Review B</i> , 2013, 87, .	1.1	79
187	Boltzmann theory of engineered anisotropic magnetoresistance in (Ga,Mn)As. <i>Applied Physics Letters</i> , 2002, 81, 4029-4031.	1.5	77
188	Anomalous Hall effect in a two-dimensional electron gas. <i>Physical Review B</i> , 2007, 76, .	1.1	76
189	Graphene moiré mystery solved?. <i>Nature</i> , 2011, 474, 453-454.	13.7	76
190	Correlation in double-layer two-dimensional electron-gas systems: Singwi-Tosi-Land-Sjölander theory at $B=0$. <i>Physical Review B</i> , 1994, 49, 5522-5530.	1.1	75
191	Limits on the Curie temperature of (III,Mn)V ferromagnetic semiconductors. <i>Applied Physics Letters</i> , 2001, 78, 1550-1552.	1.5	75
192	Emerging exciton physics in transition metal dichalcogenide heterobilayers. <i>Nature Reviews Materials</i> , 2022, 7, 778-795.	23.3	75
193	Cavity quantum electrodynamics of strongly correlated electron systems: A no-go theorem for photon condensation. <i>Physical Review B</i> , 2019, 100, .	1.1	74
194	Graphene for CMOS and Beyond CMOS Applications. <i>Proceedings of the IEEE</i> , 2010, 98, 2032-2046.	16.4	73
195	Visualization of geometric influences on proximity effects in heterogeneous superconductor thin films. <i>Nature Physics</i> , 2012, 8, 464-469.	6.5	73
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