

# Allan H Macdonald

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8885799/allan-h-macdonald-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

500  
papers

49,018  
citations

113  
h-index

209  
g-index

544  
ext. papers

56,732  
ext. citations

7.3  
avg, IF

8.05  
L-index

#	Paper	IF	Citations
500	Anomalous Hall effect. <i>Reviews of Modern Physics</i> , <b>2010</b> , 82, 1539-1592	40.5	2357
499	Universal intrinsic spin Hall effect. <i>Physical Review Letters</i> , <b>2004</b> , 92, 126603	7.4	1631
498	Topological matter. Observation of Majorana fermions in ferromagnetic atomic chains on a superconductor. <i>Science</i> , <b>2014</b> , 346, 602-7	33.3	1222
497	Moire bands in twisted double-layer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 12233-7	11.5	1173
496	Photonic topological insulators. <i>Nature Materials</i> , <b>2013</b> , 12, 233-9	27	1045
495	Theory of ferromagnetic (III,Mn)V semiconductors. <i>Reviews of Modern Physics</i> , <b>2006</b> , 78, 809-864	40.5	1028
494	Intrinsic and Rashba spin-orbit interactions in graphene sheets. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	823
493	Spintronics and pseudospintronics in graphene and topological insulators. <i>Nature Materials</i> , <b>2012</b> , 11, 409-16	27	760
492	Quantum Hall ferromagnetism in graphene. <i>Physical Review Letters</i> , <b>2006</b> , 96, 256602	7.4	635
491	Anomalous Hall effect in ferromagnetic semiconductors. <i>Physical Review Letters</i> , <b>2002</b> , 88, 207208	7.4	618
490	Ferromagnetic semiconductors: moving beyond (Ga,Mn)As. <i>Nature Materials</i> , <b>2005</b> , 4, 195-202	27	590
489	Bose-Einstein condensation of excitons in bilayer electron systems. <i>Nature</i> , <b>2004</b> , 432, 691-4	50.4	561
488	Spontaneous interlayer coherence in double-layer quantum Hall systems: Charged vortices and Kosterlitz-Thouless phase transitions. <i>Physical Review B</i> , <b>1995</b> , 51, 5138-5170	3.3	554
487	Magneto-roton theory of collective excitations in the fractional quantum Hall effect. <i>Physical Review B</i> , <b>1986</b> , 33, 2481-2494	3.3	550
486	First principles calculation of anomalous Hall conductivity in ferromagnetic bcc Fe. <i>Physical Review Letters</i> , <b>2004</b> , 92, 037204	7.4	545
485	Evidence for moiré excitons in van der Waals heterostructures. <i>Nature</i> , <b>2019</b> , 567, 71-75	50.4	538
484	Quantum transport of massless Dirac fermions. <i>Physical Review Letters</i> , <b>2007</b> , 98, 076602	7.4	530

483	Superconductors, orbital magnets and correlated states in magic-angle bilayer graphene. <i>Nature</i> , <b>2019</b> , 574, 653-657	50.4	490
482	Interface-Induced Phenomena in Magnetism. <i>Reviews of Modern Physics</i> , <b>2017</b> , 89,	40.5	475
481	A relativistic density functional formalism. <i>Journal of Physics C: Solid State Physics</i> , <b>1979</b> , 12, 2977-2990		475
480	Capacitance of carbon-based electrical double-layer capacitors. <i>Nature Communications</i> , <b>2014</b> , 5, 3317	17.4	463
479	Ab initio theory of gate induced gaps in graphene bilayers. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	460
478	Graphene: Exploring carbon flatland. <i>Physics Today</i> , <b>2007</b> , 60, 35-41	0.9	459
477	Off-diagonal long-range order, oblique confinement, and the fractional quantum Hall effect. <i>Physical Review Letters</i> , <b>1987</b> , 58, 1252-1255	7.4	451
476	A linearised relativistic augmented-plane-wave method utilising approximate pure spin basis functions. <i>Journal of Physics C: Solid State Physics</i> , <b>1980</b> , 13, 2675-2683		442
475	Ultrathin high-temperature oxidation-resistant coatings of hexagonal boron nitride. <i>Nature Communications</i> , <b>2013</b> , 4, 2541	17.4	418
474	Mutual friction between parallel two-dimensional electron systems. <i>Physical Review Letters</i> , <b>1991</b> , 66, 1216-1219	7.4	412
473	Collective-excitation gap in the fractional quantum Hall effect. <i>Physical Review Letters</i> , <b>1985</b> , 54, 581-583	7.4	389
472	Giant magneto-optical Kerr effect and universal Faraday effect in thin-film topological insulators. <i>Physical Review Letters</i> , <b>2010</b> , 105, 057401	7.4	373
471	Anomalous Hall effect arising from noncollinear antiferromagnetism. <i>Physical Review Letters</i> , <b>2014</b> , 112, 017205	7.4	360
470	Prospects for high temperature ferromagnetism in (Ga,Mn)As semiconductors. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	351
469	Observation of plasmarons in quasi-freestanding doped graphene. <i>Science</i> , <b>2010</b> , 328, 999-1002	33.3	340
468	Spontaneous quantum Hall states in chirally stacked few-layer graphene systems. <i>Physical Review Letters</i> , <b>2011</b> , 106, 156801	7.4	326
467	t/U expansion for the Hubbard model. <i>Physical Review B</i> , <b>1988</b> , 37, 9753-9756	3.3	308
466	Strong Coulomb drag and broken symmetry in double-layer graphene. <i>Nature Physics</i> , <b>2012</b> , 8, 896-901	16.2	303

- 465 Theory of magnetic anisotropy in III1MnxV ferromagnets. *Physical Review B*, **2001**, 63, 3-3 297
- 464 Tunable moiré bands and strong correlations in small-twist-angle bilayer graphene. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 3364-3369 11.5 294
- 463 Nonlinear spin current and magnetoresistance of molecular tunnel junctions. *Physical Review Letters*, **2006**, 96, 166804 7.4 280
- 462 Quantum anomalous Hall effect in graphene proximity coupled to an antiferromagnetic insulator. *Physical Review Letters*, **2014**, 112, 116404 7.4 273
- 461 Room-temperature superfluidity in graphene bilayers. *Physical Review B*, **2008**, 78, 3-3 270
- 460 Edge states in the fractional-quantum-Hall-effect regime. *Physical Review Letters*, **1990**, 64, 220-223 7.4 267
- 459 Theory of diluted magnetic semiconductor ferromagnetism. *Physical Review Letters*, **2000**, 84, 5628-31 7.4 266
- 458 Quantized Hall effect and edge currents. *Physical Review B*, **1984**, 29, 1616-1619 3-3 265
- 457 Collapse of integer Hall gaps in a double-quantum-well system. *Physical Review Letters*, **1990**, 65, 775-778 7.4 254
- 456 Topological antiferromagnetic spintronics. *Nature Physics*, **2018**, 14, 242-251 16.2 248
- 455 Quantum ferromagnetism and phase transitions in double-layer quantum Hall systems. *Physical Review Letters*, **1994**, 72, 732-735 7.4 243
- 454 Interlayer coupling in ferromagnetic semiconductor superlattices. *Physical Review B*, **1999**, 59, 9818-9821 3-3 238
- 453 Transport spectroscopy of symmetry-broken insulating states in bilayer graphene. *Nature Nanotechnology*, **2012**, 7, 156-60 28.7 237
- 452 Plasmons and the spectral function of graphene. *Physical Review B*, **2008**, 77, 3-3 235
- 451 Strong interface-induced spin-orbit interaction in graphene on WS<sub>2</sub>. *Nature Communications*, **2015**, 6, 8339 17.4 233
- 450 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, 10546-51 11.5 222
- 449 Theory of Phonon-Mediated Superconductivity in Twisted Bilayer Graphene. *Physical Review Letters*, **2018**, 121, 257001 7.4 222
- 448 Band structure of ABC-stacked graphene trilayers. *Physical Review B*, **2010**, 82, 3-3 213

447	Theory of spin torques and giant magnetoresistance in antiferromagnetic metals. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	211
446	Antiferromagnetic metal spintronics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2011</b> , 369, 3098-114	3	210
445	Electronic cooling in graphene. <i>Physical Review Letters</i> , <b>2009</b> , 102, 206410	7.4	209
444	Simulation of Hubbard model physics in WSe/WS moiré superlattices. <i>Nature</i> , <b>2020</b> , 579, 353-358	50.4	195
443	Double-occupancy errors, adiabaticity, and entanglement of spin qubits in quantum dots. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	195
442	Theory of spin-charge-coupled transport in a two-dimensional electron gas with Rashba spin-orbit interactions. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	193
441	Origin of band gaps in graphene on hexagonal boron nitride. <i>Nature Communications</i> , <b>2015</b> , 6, 6308	17.4	192
440	Hydrogenic energy levels in two dimensions at arbitrary magnetic fields. <i>Physical Review B</i> , <b>1986</b> , 33, 8336-8344	3.3	192
439	Pseudospin magnetism in graphene. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	190
438	Charged spin-texture excitations and the Hartree-Fock approximation in the quantum Hall effect. <i>Physical Review B</i> , <b>1994</b> , 50, 11018-11021	3.3	188
437	Coulomb drag between disordered two-dimensional electron-gas layers. <i>Physical Review B</i> , <b>1993</b> , 48, 8203-8209	3.3	187
436	Exciton band structure of monolayer MoS <sub>2</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	185
435	Chiral decomposition in the electronic structure of graphene multilayers. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	184
434	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> , <b>2007</b> , 75,	3.3	184
433	Chirality and correlations in graphene. <i>Physical Review Letters</i> , <b>2007</b> , 98, 236601	7.4	184
432	Hubbard Model Physics in Transition Metal Dichalcogenide Moiré Bands. <i>Physical Review Letters</i> , <b>2018</b> , 121, 026402	7.4	176
431	Quantum anomalous Hall effect in single-layer and bilayer graphene. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	174
430	Skyrme crystal in a two-dimensional electron gas. <i>Physical Review Letters</i> , <b>1995</b> , 75, 2562-2565	7.4	172

429	Semiclassical spin transport in spin-orbit-coupled bands. <i>Physical Review Letters</i> , <b>2004</b> , 93, 046602	7.4	171
428	Direct chemical conversion of graphene to boron- and nitrogen- and carbon-containing atomic layers. <i>Nature Communications</i> , <b>2014</b> , 5, 3193	17.4	169
427	Direct measurement of exciton valley coherence in monolayer WSe <sub>2</sub> . <i>Nature Physics</i> , <b>2016</b> , 12, 677-682	16.2	168
426	Electronic and magnetic properties of single-layer MPX <sub>3</sub> metal phosphorous trichalcogenides. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	166
425	Graphene: Materially Better Carbon. <i>MRS Bulletin</i> , <b>2010</b> , 35, 289-295	3.2	164
424	Double Quantum Well Electron-Hole Systems in Strong Magnetic Fields. <i>Journal of the Physical Society of Japan</i> , <b>1990</b> , 59, 4211-4214	1.5	163
423	Bilayer PseudoSpin Field-Effect Transistor (BiSFET): A Proposed New Logic Device. <i>IEEE Electron Device Letters</i> , <b>2009</b> , 30, 158-160	4.4	161
422	Spontaneous inversion symmetry breaking in graphene bilayers. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	158
421	Ab initio theory of moiré superlattice bands in layered two-dimensional materials. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	155
420	Topological Exciton Bands in Moiré Heterojunctions. <i>Physical Review Letters</i> , <b>2017</b> , 118, 147401	7.4	155
419	Collective modes and skyrmion excitations in graphene SU(4) quantum Hall ferromagnets. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	155
418	High-resolution tunnelling spectroscopy of a graphene quartet. <i>Nature</i> , <b>2010</b> , 467, 185-9	50.4	149
417	Changing exchange bias in spin valves with an electric current. <i>Physical Review Letters</i> , <b>2007</b> , 98, 116603	7.4	147
416	Topological Insulators in Twisted Transition Metal Dichalcogenide Homobilayers. <i>Physical Review Letters</i> , <b>2019</b> , 122, 086402	7.4	145
415	How to make a bilayer exciton condensate flow. <i>Nature Physics</i> , <b>2008</b> , 4, 799-802	16.2	139
414	Carrier density and magnetism in graphene zigzag nanoribbons. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	138
413	Nature of the Correlated Insulator States in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , <b>2020</b> , 124, 097601	7.4	135
412	Fractional quantum Hall effect in a two-dimensional electron-hole fluid. <i>Physical Review B</i> , <b>1990</b> , 42, 3224-3227	3.3	135

411	Moiré butterflies in twisted bilayer graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	134
410	Quantum kinetic theory of current-induced torques in Rashba ferromagnets. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	134
409	Drude weight, plasmon dispersion, and ac conductivity in doped graphene sheets. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	130
408	Transport between twisted graphene layers. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	130
407	Character of states near the Fermi level in (Ga,Mn)As: Impurity to valence band crossover. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	130
406	Charge and spin Hall conductivity in metallic graphene. <i>Physical Review Letters</i> , <b>2006</b> , 97, 106804	7.4	128
405	Theory of interedge superexchange in zigzag edge magnetism. <i>Physical Review Letters</i> , <b>2009</b> , 102, 227205	7.4	127
404	Hartree-Fock approximation for response functions and collective excitations in a two-dimensional electron gas with filled Landau levels. <i>Journal of Physics C: Solid State Physics</i> , <b>1985</b> , 18, 1003-1016		126
403	Magneto-optical Faraday and Kerr effects in topological insulator films and in other layered quantized Hall systems. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	125
402	Theory of optical absorption by interlayer excitons in transition metal dichalcogenide heterobilayers. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	122
401	Energy gaps, magnetism, and electric-field effects in bilayer graphene nanoribbons. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	122
400	Pseudospin anisotropy classification of quantum Hall ferromagnets. <i>Physical Review B</i> , <b>2000</b> , 63,	3.3	121
399	Electronic highways in bilayer graphene. <i>Nano Letters</i> , <b>2011</b> , 11, 3453-9	11.5	120
398	Curie temperature trends in (III,Mn)V ferromagnetic semiconductors. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	119
397	Many-body theory of trion absorption features in two-dimensional semiconductors. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	118
396	Collective Excitations, NMR, and Phase Transitions in Skyrme Crystals. <i>Physical Review Letters</i> , <b>1997</b> , 78, 4825-4828	7.4	118
395	Magnetic and magnetic inverse spin Hall effects in a non-collinear antiferromagnet. <i>Nature</i> , <b>2019</b> , 565, 627-630	50.4	118
394	Band offset and negative compressibility in graphene-MoS <sub>2</sub> heterostructures. <i>Nano Letters</i> , <b>2014</b> , 14, 2039-45	11.5	117

393	Quantum melting and absence of Bose-Einstein condensation in two-dimensional vortex matter. <i>Physical Review Letters</i> , <b>2002</b> , 89, 030403	7.4	116
392	Quantum theory of quantum Hall smectics. <i>Physical Review B</i> , <b>2000</b> , 61, 5724-5733	3.3	115
391	Topologically Protected Helical States in Minimally Twisted Bilayer Graphene. <i>Physical Review Letters</i> , <b>2018</b> , 121, 037702	7.4	113
390	First-order phase transitions in a quantum Hall ferromagnet. <i>Nature</i> , <b>1999</b> , 402, 638-641	50.4	113
389	Drag in paired electron-hole layers. <i>Physical Review Letters</i> , <b>1996</b> , 76, 2786-2789	7.4	113
388	Effect of edge roughness on electronic transport in graphene nanoribbon channel metal-oxide-semiconductor field-effect transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 042114	3.4	112
387	Intra-Landau-level cyclotron resonance in bilayer graphene. <i>Physical Review Letters</i> , <b>2008</b> , 101, 097601	7.4	111
386	Correlated Insulating States in Twisted Double Bilayer Graphene. <i>Physical Review Letters</i> , <b>2019</b> , 123, 197702	7.4	110
385	Theory of t2g electron-gas Rashba interactions. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	110
384	Itinerant ferromagnetism in an ultracold atom fermi gas. <i>Physical Review Letters</i> , <b>2005</b> , 95, 230403	7.4	109
383	Influence of a transport current on magnetic anisotropy in gyrotropic ferromagnets. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	108
382	Anomalous Hall effect in paramagnetic two-dimensional systems. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	107
381	Theory of magnetic properties and spin-wave dispersion for ferromagnetic (Ga,Mn)As. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	107
380	Long-lived charged multiple-exciton complexes in strong magnetic fields. <i>Physical Review B</i> , <b>1996</b> , 54, R2296-R2299	3.3	107
379	Monte Carlo study of ferromagnetism in (III,Mn)V semiconductors. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	106
378	Theory of the SrTiO3 surface state two-dimensional electron gas. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	105
377	Graphene bilayers with a twist. <i>Nature Materials</i> , <b>2020</b> , 19, 1265-1275	27	104
376	Valley-Hall kink and edge states in multilayer graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	103



375	Theory of ferromagnetism in diluted magnetic semiconductor quantum wells. <i>Physical Review B</i> , <b>2000</b> , 61, 15606-15609	3.3	102
374	Electrical switching of the topological anomalous Hall effect in a non-collinear antiferromagnet above room temperature. <i>Nature Electronics</i> , <b>2018</b> , 1, 172-177	28.4	99
373	Electronic Structure of Multilayer Graphene. <i>Progress of Theoretical Physics Supplement</i> , <b>2008</b> , 176, 227-252		99
372	Collective modes of the two-dimensional Wigner crystal in a strong magnetic field. <i>Physical Review B</i> , <b>1991</b> , 44, 8759-8773	3.3	98
371	Skyrmions without sigma models in quantum Hall ferromagnets. <i>Physical Review Letters</i> , <b>1996</b> , 76, 2153-2156	2.156	97
370	Electronic structure of parallel two-dimensional electron systems in tilted magnetic fields. <i>Physical Review B</i> , <b>1992</b> , 46, 12554-12559	3.3	97
369	Graphene: A pseudochiral Fermi liquid. <i>Solid State Communications</i> , <b>2007</b> , 143, 58-62	1.6	96
368	Velocity-modulation control of electron-wave propagation in graphene. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	95
367	Lattice theory of pseudospin ferromagnetism in bilayer graphene: Competing interaction-induced quantum Hall states. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	95
366	Landau-level subband structure of electrons on a square lattice. <i>Physical Review B</i> , <b>1983</b> , 28, 6713-6717	3.3	95
365	Topological superconductivity induced by ferromagnetic metal chains. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	94
364	Dc-transport properties of ferromagnetic (Ga,Mn)As semiconductors. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 320-322	3.4	94
363	Photoluminescence in the fractional quantum Hall regime. <i>Physical Review Letters</i> , <b>1992</b> , 68, 1939-1942	7.4	94
362	Theory of interlayer tunneling in bilayer quantum Hall ferromagnets. <i>Physical Review Letters</i> , <b>2001</b> , 86, 1829-32	7.4	93
361	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> , <b>2013</b> , 13, 369-73	11.5	92
360	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> , <b>2012</b> , 109, 10802-5	11.5	92
359	Resistance spikes and domain wall loops in Ising quantum Hall ferromagnets. <i>Physical Review Letters</i> , <b>2001</b> , 87, 216801	7.4	89
358	Temperature Dependence of Itinerant Electron Junction Magnetoresistance. <i>Physical Review Letters</i> , <b>1998</b> , 81, 705-708	7.4	88

357	Density functional theory of graphene sheets. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	87
356	Thermodynamic properties of an interacting two-dimensional electron gas in a strong magnetic field. <i>Physical Review B</i> , <b>1986</b> , 34, 2681-2689	3.3	87
355	Local spectroscopy of moiré-induced electronic structure in gate-tunable twisted bilayer graphene. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	86
354	Functional Keldysh theory of spin torques. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	86
353	Influence of a uniform current on collective magnetization dynamics in a ferromagnetic metal. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	85
352	Magnetic domains in III-V magnetic semiconductors. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	85
351	Double-layer graphene and topological insulator thin-film plasmons. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	84
350	Decoherence processes during optical manipulation of excitonic qubits in semiconductor quantum dots. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	82
349	Thermally assisted current-driven domain-wall motion. <i>Physical Review Letters</i> , <b>2007</b> , 98, 056605	7.4	81
348	Broken-symmetry ground states for the two-dimensional electron gas in a double-quantum-well system. <i>Physical Review B</i> , <b>1992</b> , 46, 10239-10250	3.3	81
347	Magneto-optical and magnetoelectric effects of topological insulators in quantizing magnetic fields. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	79
346	Strong correlation to weak correlation phase transition in bilayer quantum Hall systems. <i>Physical Review Letters</i> , <b>2001</b> , 86, 1849-52	7.4	79
345	Effective screening and the plasmaron bands in graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	78
344	Theory of the magnetic-field-induced insulator in neutral graphene sheets. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	78
343	Edge-spin accumulation in semiconductor two-dimensional hole gases. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	78
342	Dissipationless Spin Transport in Thin Film Ferromagnets. <i>Physical Review Letters</i> , <b>2001</b> , 87,	7.4	78
341	Edge magnetoplasmons in the fractional-quantum-Hall-effect regime. <i>Physical Review B</i> , <b>1990</b> , 41, 10287-10298	3.3	78
340	Enhanced spin Seebeck effect signal due to spin-momentum locked topological surface states. <i>Nature Communications</i> , <b>2016</b> , 7, 11458	17.4	77

339	Transport properties of graphene nanoroads in boron nitride sheets. <i>Nano Letters</i> , <b>2012</b> , 12, 2936-40	11.5	77
338	Magnetization relaxation in (Ga,Mn)As ferromagnetic semiconductors. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	77
337	Magnetic Anisotropy in Quantum Hall Ferromagnets. <i>Physical Review Letters</i> , <b>1998</b> , 81, 2328-2331	7.4	77
336	Hartree-Fock theory of Skyrmions in quantum Hall ferromagnets. <i>Physical Review B</i> , <b>1997</b> , 55, 10671-10680	3.9	76
335	Spontaneous interlayer coherence in double-layer quantum Hall systems: Symmetry-breaking interactions, in-plane fields, and phase solitons. <i>Physical Review B</i> , <b>1996</b> , 54, 11644-11658	3.3	76
334	Boltzmann theory of engineered anisotropic magnetoresistance in (Ga,Mn)As. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 4029-4031	3.4	74
333	Nonadiabatic spin-transfer torque in real materials. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	73
332	Limits on the Curie temperature of (III,Mn)V ferromagnetic semiconductors. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1550-1552	3.4	73
331	Correlation in double-layer two-dimensional electron-gas systems: Singwi-Tosi-Land-Sjlander theory at B=0. <i>Physical Review B</i> , <b>1994</b> , 49, 5522-5530	3.3	72
330	Origin of universal optical conductivity and optical stacking sequence identification in multilayer graphene. <i>Physical Review Letters</i> , <b>2009</b> , 103, 067402	7.4	71
329	Current-induced torques due to compensated antiferromagnets. <i>Physical Review Letters</i> , <b>2008</b> , 100, 196801	7.1	71
328	Transition-metal dimers and physical limits on magnetic anisotropy. <i>Nature Materials</i> , <b>2007</b> , 6, 648-51	27	71
327	Quantum Hall effects in graphene-based two-dimensional electron systems. <i>Nanotechnology</i> , <b>2012</b> , 23, 052001	3.4	68
326	Finite-temperature screening and the specific heat of doped graphene sheets. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2009</b> , 42, 214015	2	68
325	Phonons as collective modes: The case of a two-dimensional Wigner crystal in a strong magnetic field. <i>Physical Review Letters</i> , <b>1990</b> , 65, 2662-2665	7.4	67
324	Coordinate shift in the semiclassical Boltzmann equation and the anomalous Hall effect. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	65
323	Electronic transport through a double quantum dot in the spin-blockade regime: Theoretical models. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	64
322	Gap inhomogeneities and the density of states in disordered d-wave superconductors. <i>Physical Review Letters</i> , <b>2000</b> , 85, 3922-5	7.4	64

321	Two-dimensional chiral topological superconductivity in Shiba lattices. <i>Nature Communications</i> , <b>2016</b> , 7, 12297	17.4	64
320	Anomalous Hall effect in a two-dimensional electron gas. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	63
319	Electrical switching of magnetic order in an orbital Chern insulator. <i>Nature</i> , <b>2020</b> , 588, 66-70	50.4	63
318	Accurate tight-binding models for the $\Gamma$ bands of bilayer graphene. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	62
317	Fermi velocity enhancement in monolayer and bilayer graphene. <i>Solid State Communications</i> , <b>2009</b> , 149, 1117-1122	1.6	62
316	Revealing the electronic band structure of trilayer graphene on SiC: An angle-resolved photoemission study. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	61
315	Ab initio giant magnetoresistance and current-induced torques in Cr $\overline{A}$ u $\overline{C}$ r multilayers. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	61
314	Quasiparticle effective mass and enhanced g factor for a two-dimensional electron gas at intermediate magnetic fields. <i>Physical Review B</i> , <b>1992</b> , 45, 8829-8832	3.3	61
313	Visualization of geometric influences on proximity effects in heterogeneous superconductor thin films. <i>Nature Physics</i> , <b>2012</b> , 8, 464-469	16.2	60
312	Hydrodynamic theory of transport in doped graphene. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	60
311	Noncollinear ferromagnetism in (III,Mn)V semiconductors. <i>Physical Review Letters</i> , <b>2002</b> , 88, 137201	7.4	60
310	Electron-electron interactions and two-dimensional-two-dimensional tunneling. <i>Physical Review B</i> , <b>1996</b> , 53, 7403-7412	3.3	60
309	Landau level mixing and the fractional quantum Hall effect. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	59
308	Broken-symmetry ground states in $\mathbb{Z}_2$ bilayer quantum Hall systems. <i>Physical Review B</i> , <b>1999</b> , 60, 8817-8826	3.3	59
307	Interaction-enhanced coherence between two-dimensional Dirac layers. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	58
306	Details of disorder matter in 2D d-wave superconductors. <i>Physical Review Letters</i> , <b>2000</b> , 85, 3926-9	7.4	58
305	Magnetic oscillations and quasiparticle band structure in the mixed state of type-II superconductors. <i>Physical Review B</i> , <b>1995</b> , 51, 5927-5942	3.3	58
304	Graphene for CMOS and Beyond CMOS Applications. <i>Proceedings of the IEEE</i> , <b>2010</b> , 98, 2032-2046	14.3	57

303	Dynamical response functions and collective modes of bilayer graphene. <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	56
302	Engineering superfluidity in electron-hole double layers. <i>Physical Review B</i> , <b>1998</b> , 57, R6846-R6849	3-3	56
301	Observation of a nematic quantum Hall liquid on the surface of bismuth. <i>Science</i> , <b>2016</b> , 354, 316-321	33-3	54
300	Theory of two-dimensional spatially indirect equilibrium exciton condensates. <i>Physical Review B</i> , <b>2015</b> , 92,	3-3	54
299	Influence of Landau-level mixing on the charge-density-wave state of a two-dimensional electron gas in a strong magnetic field. <i>Physical Review B</i> , <b>1984</b> , 30, 4392-4398	3-3	54
298	Strongly Enhanced Tunneling at Total Charge Neutrality in Double-Bilayer Graphene-WSe <sub>2</sub> Heterostructures. <i>Physical Review Letters</i> , <b>2018</b> , 120, 177702	7-4	53
297	Electron-electron interactions in decoupled graphene layers. <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	53
296	Current-induced torques in magnetic metals: Beyond spin-transfer. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2008</b> , 320, 1300-1311	2-8	53
295	Dependence of the intrinsic spin-Hall effect on spin-orbit interaction character. <i>Physical Review B</i> , <b>2005</b> , 72,	3-3	53
294	Interactions, localization, and the integer quantum Hall effect. <i>Physical Review Letters</i> , <b>1995</b> , 74, 3229-3232	7-4	52
293	Current-induced order parameter dynamics: Microscopic theory applied to Co <sub>2</sub> TiNiO spin valves. <i>Physical Review B</i> , <b>2007</b> , 76,	3-3	51
292	Nonvanishing spin Hall currents in disordered spin-orbit coupling systems. <i>Physical Review B</i> , <b>2005</b> , 71,	3-3	51
291	Ferromagnetism in diluted magnetic semiconductor heterojunction systems. <i>Semiconductor Science and Technology</i> , <b>2002</b> , 17, 393-403	1-8	50
290	Helical network model for twisted bilayer graphene. <i>Physical Review B</i> , <b>2018</b> , 98,	3-3	49
289	Vortex-lattice states at strong magnetic fields. <i>Physical Review Letters</i> , <b>1991</b> , 67, 2375-2378	7-4	49
288	Distinguishing spontaneous quantum Hall states in bilayer graphene. <i>Physical Review Letters</i> , <b>2012</b> , 108, 186804	7-4	48
287	Conduction-band edge and Shubnikov-de Haas effect in low-electron-density SrTiO <sub>3</sub> . <i>Physical Review B</i> , <b>2013</b> , 88,	3-3	48
286	Optical control of topological quantum transport in semiconductors. <i>Physical Review Letters</i> , <b>2007</b> , 99, 047401	7-4	48

285	Long-distance spin transport through a graphene quantum Hall antiferromagnet. <i>Nature Physics</i> , <b>2018</b> , 14, 907-911	16.2	47
284	Infrared conductivity of metallic (III,Mn)V ferromagnets. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	47
283	Current Partition at Topological Channel Intersections. <i>Physical Review Letters</i> , <b>2014</b> , 112,	7.4	45
282	Realization of fully frustrated Josephson-junction arrays with cold atoms. <i>Physical Review Letters</i> , <b>2005</b> , 95, 010401	7.4	45
281	Moiré band model and band gaps of graphene on hexagonal boron nitride. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	44
280	Anisotropic exchange interactions in III-V diluted magnetic semiconductors. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	44
279	Is there a dc Josephson effect in bilayer quantum Hall systems?. <i>Physical Review Letters</i> , <b>2001</b> , 87, 196802.	7.4	44
278	Tunneling conductance between parallel two-dimensional electron systems. <i>Physical Review B</i> , <b>1993</b> , 47, 10619-10624	3.3	44
277	New gapless modes in the fractional quantum Hall effect of multicomponent fermions. <i>Physical Review Letters</i> , <b>1985</b> , 55, 433-436	7.4	44
276	Low-temperature magnetization of (Ga,Mn)As semiconductors. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	43
275	Inelastic scattering in ferromagnetic and antiferromagnetic spin valves. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	43
274	Disorder and ferromagnetism in diluted magnetic semiconductors. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	42
273	Theory of tunneling spectroscopy in ferromagnetic nanoparticles. <i>Physical Review Letters</i> , <b>2000</b> , 85, 5623-6	7.4	42
272	Microscopic functional integral theory of quantum fluctuations in double-layer quantum Hall ferromagnets. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	41
271	Incommensurate ground state of double-layer quantum Hall systems. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	41
270	The marvels of moiré materials. <i>Nature Reviews Materials</i> , <b>2021</b> , 6, 201-206	7.3	41
269	Quantized Casimir force. <i>Physical Review Letters</i> , <b>2012</b> , 109, 236806	7.4	40
268	Pseudospin order in monolayer, bilayer and double-layer graphene. <i>Physica Scripta</i> , <b>2012</b> , T146, 014012	2.6	40

267	Gilbert damping in conducting ferromagnets. II. Model tests of the torque-correlation formula. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	40
266	Tomonaga-Luttinger parameters for quantum wires. <i>Physical Review B</i> , <b>2002</b> , 65,	3-3	40
265	Landau quantization and particle-particle ladder sums in a magnetic field. <i>Physical Review B</i> , <b>1992</b> , 45, 10147-10150	3-3	40
264	Collective excitations in the fractional quantum Hall effect of a multicomponent fermion system. <i>Physical Review B</i> , <b>1986</b> , 34, 5530-5539	3-3	40
263	Cavity quantum electrodynamics of strongly correlated electron systems: A no-go theorem for photon condensation. <i>Physical Review B</i> , <b>2019</b> , 100,	3-3	39
262	Drude weight, cyclotron resonance, and the Dicke model of graphene cavity QED. <i>Physical Review Letters</i> , <b>2012</b> , 109, 267404	7-4	39
261	Mn-doped Ga(As,P) and (Al,Ga)As ferromagnetic semiconductors: Electronic structure calculations. <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	39
260	Bilayer quantum hall systems at filling factor $\nu = 2$ : An exact diagonalization study. <i>Physical Review Letters</i> , <b>2000</b> , 84, 4437-40	7-4	39
259	Nonlocal transport mediated by spin supercurrents. <i>Physical Review B</i> , <b>2014</b> , 90,	3-3	38
258	Magnetoelectric coupling in zigzag graphene nanoribbons. <i>Physical Review B</i> , <b>2010</b> , 81,	3-3	38
257	Anomalous exciton condensation in graphene bilayers. <i>Physical Review Letters</i> , <b>2010</b> , 104, 096802	7-4	38
256	Modulation doping near Mott-insulator heterojunctions. <i>Physical Review B</i> , <b>2006</b> , 74,	3-3	38
255	Accurate Gap Determination in Monolayer and Bilayer Graphene/ h-BN Moiré Superlattices. <i>Nano Letters</i> , <b>2018</b> , 18, 7732-7741	11-5	38
254	Hund's rules for the $N=0$ Landau levels of trilayer graphene. <i>Physical Review B</i> , <b>2012</b> , 85,	3-3	37
253	Interactions suppress quasiparticle tunneling at Hall bar constrictions. <i>Physical Review Letters</i> , <b>2004</b> , 93, 126801	7-4	37
252	Coupling between edge and bulk in strong-field quantum dots. <i>Physical Review B</i> , <b>2002</b> , 66,	3-3	37
251	Quantized Hall effect in a hexagonal periodic potential. <i>Physical Review B</i> , <b>1984</b> , 29, 3057-3065	3-3	37
250	Tight-binding model for graphene bands from maximally localized Wannier functions. <i>Physical Review B</i> , <b>2013</b> , 87,	3-3	36

249	Beyond Silicon: Carbon-Based Nanotechnology. <i>MRS Bulletin</i> , <b>2010</b> , 35, 273-279	3.2	36
248	Bias-voltage-induced phase transition in bilayer quantum Hall ferromagnets. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	36
247	Influence of disorder on electron-hole pair condensation in graphene bilayers. <i>Physical Review Letters</i> , <b>2008</b> , 101, 256406	7.4	35
246	Dynamics of magnetization coupled to a thermal bath of elastic modes. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	35
245	Electronic structure of doped d0 perovskite semiconductors. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	34
244	Topological electromotive force from domain-wall dynamics in a ferromagnet. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	34
243	Finite conductivity minimum in bilayer graphene without charge inhomogeneities. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	34
242	Coherently photoinduced ferromagnetism in diluted magnetic semiconductors. <i>Physical Review Letters</i> , <b>2004</b> , 93, 127201	7.4	34
241	Infrared magneto-optical properties of (III,Mn)V ferromagnetic semiconductors. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	34
240	SO(5) symmetry in the quantum Hall effect in graphene. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	33
239	Competing ordered states in bilayer graphene. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	33
238	Absence of skew scattering in two-dimensional systems: testing the origins of the anomalous Hall effect. <i>Physical Review Letters</i> , <b>2007</b> , 99, 066604	7.4	33
237	Quantum Hall superfluids in topological insulator thin films. <i>Physical Review Letters</i> , <b>2011</b> , 107, 246401	7.4	32
236	Interlayer transport in bilayer quantum Hall systems. <i>Physical Review Letters</i> , <b>2005</b> , 95, 266804	7.4	32
235	Lattice pseudospin model for $\mathbb{Z}_2$ quantum Hall bilayers. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	32
234	Theory of spin transfer phenomena in magnetic metals and semiconductors. <i>Solid State Communications</i> , <b>2006</b> , 139, 31-34	1.6	31
233	Persistent spin currents in helimagnets. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	31
232	Periphery deformations and tunneling at correlated quantum Hall edges. <i>Physical Review B</i> , <b>1999</b> , 60, 1837-1841	3.3	31



231	Phonon renormalization in reconstructed MoS <sub>2</sub> moiré superlattices. <i>Nature Materials</i> , <b>2021</b> , 20, 1100-1105	27	31
230	Ultrathin two-dimensional superconductivity with strong spin-orbit coupling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 10513-7	11.5	31
229	Orbital and interlayer skyrmion crystals in bilayer graphene. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	30
228	Field-domain spintronics in magnetic semiconductor multiple quantum wells. <i>Physical Review B</i> , <b>2001</b> , 65,	3.3	30
227	Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides. <i>Nano Letters</i> , <b>2017</b> , 17, 7761-7766	11.5	29
226	Staging transitions in multiple-quantum-well systems. <i>Physical Review B</i> , <b>1988</b> , 37, 4792-4794	3.3	29
225	Modulation of mechanical resonance by chemical potential oscillation in graphene. <i>Nature Physics</i> , <b>2016</b> , 12, 240-244	16.2	28
224	Interband coherence response to electric fields in crystals: Berry-phase contributions and disorder effects. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	28
223	Influence of remote bands on exciton condensation in double-layer graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	28
222	EPR and ferromagnetism in diluted magnetic semiconductor quantum wells. <i>Physical Review Letters</i> , <b>2003</b> , 91, 077202	7.4	28
221	Magnetization orientation dependence of the quasiparticle spectrum and hysteresis in ferromagnetic metal nanoparticles. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	28
220	Disorder and interactions in quantum Hall ferromagnets near $\nu=1$ . <i>Physical Review B</i> , <b>2000</b> , 62, 13579-13583	3.3	28
219	Thermodynamics of quantum Hall ferromagnets. <i>Physical Review Letters</i> , <b>1996</b> , 76, 3204-3207	7.4	28
218	Quantized Hall conductance in a relativistic two-dimensional electron gas. <i>Physical Review B</i> , <b>1983</b> , 28, 2235-2236	3.3	28
217	Spreading Frost Under the Microscope. <i>Physics Magazine</i> , <b>2019</b> , 12,	1.1	27
216	Transport and particle-hole asymmetry in graphene on boron nitride. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	27
215	Magnons and Skyrmions in fractional Hall ferromagnets. <i>Physical Review B</i> , <b>1998</b> , 58, R10171-R10174	3.3	27
214	Conjecture concerning the fractional Hall hierarchy. <i>Physical Review B</i> , <b>1990</b> , 42, 9514-9521	3.3	27

213	Gate-tunable exchange coupling between cobalt clusters on graphene. <i>Physical Review B</i> , <b>2013</b> , 87,	3-3	26
212	Compressibility of the electron gas in bilayer graphene. <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	26
211	Magnetic properties of substitutional Mn in (110) GaAs surface and subsurface layers. <i>Physical Review B</i> , <b>2009</b> , 80,	3-3	26
210	Gilbert damping in conducting ferromagnets. I. Kohn-Sham theory and atomic-scale inhomogeneity. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	26
209	Critical currents of ideal quantum Hall superfluids. <i>Physical Review B</i> , <b>2003</b> , 68,	3-3	26
208	Non-Drude optical conductivity of (III,Mn)V ferromagnetic semiconductors. <i>Physical Review B</i> , <b>2003</b> , 67,	3-3	26
207	Fractional-quantum-Hall edge electrons and Fermi statistics. <i>Physical Review B</i> , <b>2003</b> , 67,	3-3	26
206	Plasmon modes and correlation functions in quantum wires and Hall bars. <i>Physical Review B</i> , <b>1996</b> , 54, 16813-16819	3-3	26
205	Topological Dirac States beyond $\Gamma$ Orbitals for Silicene on SiC(0001) Surface. <i>Nano Letters</i> , <b>2017</b> , 17, 6195-6202	3-3	25
204	First-principles calculation of the nonadiabatic spin transfer torque in Ni and Fe. <i>Physical Review B</i> , <b>2011</b> , 84,	3-3	25
203	Orbital order in bilayer graphene at filling factor $\nu = 0$ . <i>Physical Review B</i> , <b>2010</b> , 82,	3-3	25
202	Vortex-lattice structure of Fulde-Ferrell-Larkin-Ovchinnikov superconductors. <i>Physical Review B</i> , <b>2004</b> , 70,	3-3	25
201	Broken SU(4) symmetry and the fractional quantum Hall effect in graphene. <i>Physical Review Letters</i> , <b>2014</b> , 112, 126804	7-4	24
200	Spontaneous layer-pseudospin domain walls in bilayer graphene. <i>Physical Review Letters</i> , <b>2014</b> , 113, 116803	7-4	24
199	Enhancement of nonlocal exchange near isolated band crossings in graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3-3	24
198	Hysteretic behavior in weakly coupled double-dot transport in the spin blockade regime. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 252112	3-4	24
197	Collective modes of soliton-lattice states in double-quantum-well systems. <i>Physical Review B</i> , <b>1995</b> , 51, 13475-13490	3-3	24
196	Quantum kinetic theory of the chiral anomaly. <i>Physical Review B</i> , <b>2017</b> , 96,	3-3	23

195	Blockade and counterflow supercurrent in exciton-condensate Josephson junctions. <i>Physical Review Letters</i> , <b>2010</b> , 104, 027004	7.4	23
194	Spin-polarized current oscillations in diluted magnetic semiconductor multiple quantum wells. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	23
193	Pressure-induced phase transitions and superconductivity in a black phosphorus single crystal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 9935-9940	11.5	23
192	Exciton-polarons in doped semiconductors in a strong magnetic field. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	22
191	Tight-binding study of electron-hole pair condensation in graphene bilayers: Gate control and system-parameter dependence. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	22
190	Critical tunneling currents in quantum Hall superfluids: Pseudospin-transfer torque theory. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	22
189	Calculation of Chern number spin Hamiltonians for magnetic nano-clusters by DFT methods. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	22
188	Chiral quasiparticle local density of states maps in graphene. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	22
187	Effect of magnetic field on spin blockade lifting of weakly coupled quantum dots. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 1148-1153	1.6	22
186	Elementary excitations of ferromagnetic metal nanoparticles. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	22
185	Spatially indirect exciton condensate phases in double bilayer graphene. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	21
184	Observation of Rydberg exciton polaritons and their condensate in a perovskite cavity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 20274-20279	11.5	21
183	Electronic cooling via interlayer Coulomb coupling in multilayer epitaxial graphene. <i>Nature Communications</i> , <b>2015</b> , 6, 8105	17.4	21
182	Carrier- and strain-tunable intrinsic magnetism in two-dimensional MAX3 transition metal chalcogenides. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	21
181	Possible Kondo physics near a metal-insulator crossover in the a-site ordered perovskite CaCu3Ir4O12. <i>Physical Review Letters</i> , <b>2013</b> , 111, 176403	7.4	21
180	Quantum Hall effect of interacting electrons in a periodic potential. <i>Physical Review B</i> , <b>1997</b> , 56, R7100-R7103	3.3	21
179	Electronic interface reconstruction at polar-nonpolar Mott-insulator heterojunctions. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	21
178	Ferromagnetic transition temperature enhancement in (Ga,Mn)As semiconductors by carbon codoping. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	21

177	Ordering mechanism and quantum anomalous Hall effect of magnetically doped topological insulators. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	20
176	Theory of ferromagnetism in doped excitonic condensates. <i>Physical Review Letters</i> , <b>2002</b> , 89, 086401	7.4	20
175	Correlation energy and tunneling density of states in the fractional quantum Hall regime. <i>Physical Review Letters</i> , <b>1996</b> , 76, 979-982	7.4	20
174	Trion Valley Coherence in Monolayer Semiconductors. <i>2D Materials</i> , <b>2017</b> , 4,	5.9	20
173	Theory of photon condensation in a spatially varying electromagnetic field. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	20
172	Enhancement of photonic density of states in finite graphene multilayers. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	19
171	Stable path to ferromagnetic hydrogenated graphene growth. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	19
170	Energy-Resolved Photoconductivity Mapping in a Monolayer-Bilayer WSe Lateral Heterostructure. <i>Nano Letters</i> , <b>2018</b> , 18, 7200-7206	11.5	19
169	Voltage-Controlled Magnetic Reversal in Orbital Chern Insulators. <i>Physical Review Letters</i> , <b>2020</b> , 125, 227702	7.4	18
168	Competing ordered states with filling factor two in bilayer graphene. <i>Nature Communications</i> , <b>2014</b> , 5, 4550	17.4	18
167	Universal quenching of the superconducting state of two-dimensional nanosize Pb-island structures. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	18
166	Quantum-Hall quantum bits. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	18
165	Broken symmetry states for two-dimensional electrons in a strong magnetic field. <i>Physical Review B</i> , <b>1985</b> , 32, 2291-2295	3.3	18
164	Strongly correlated excitonic insulator in atomic double layers. <i>Nature</i> , <b>2021</b> , 598, 585-589	50.4	18
163	SU(3) Quantum Hall Ferromagnetism in SnTe. <i>Physical Review Letters</i> , <b>2016</b> , 116, 026803	7.4	17
162	Theory of reduced superfluid density in underdoped cuprate superconductors. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	17
161	Electrical generation of spin in crystals with reduced symmetry. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	17
160	Valley transition metal dichalcogenide moiré bands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	17

159	Unveiling defect-mediated carrier dynamics in monolayer semiconductors by spatiotemporal microwave imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 13908-13913	11.5	16
158	Gapped broken symmetry states in ABC-stacked trilayer graphene. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	16
157	Theory of the pseudospin resonance in semiconductor bilayers. <i>Physical Review Letters</i> , <b>2007</b> , 99, 206802.	7.4	16
156	Correlated electron-hole state in twisted double-bilayer graphene. <i>Science</i> , <b>2021</b> , 373, 1257-1260	33.3	16
155	Quantum anomalous Hall Majorana platform. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	15
154	Effect of interlayer bare tunneling on electron-hole coherence in graphene bilayers. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	15
153	Josephson current in a four-terminal superconductor/exciton-condensate/superconductor system. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	15
152	Fulde-Ferrell-Larkin-Ovchinnikov vortex lattice states in fermionic cold-atom systems. <i>Physical Review A</i> , <b>2006</b> , 74,	2.6	15
151	Edge state tunneling in a split Hall bar model. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	15
150	Internal Excitations and Dissipative Damping of Quantum Hall Skyrmions. <i>Physical Review Letters</i> , <b>1996</b> , 77, 1572-1575	7.4	15
149	Interaction effects in the optical conductivity of bilayer graphene: Drude-interband coupling and screening. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	14
148	Chern numbers for spin models of transition metal nanomagnets. <i>Physical Review Letters</i> , <b>2003</b> , 91, 046805	7.4	14
147	Bias-voltage-controlled magnetization switch in ferromagnetic semiconductor resonant tunneling diodes. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	14
146	Global phase diagram of bilayer quantum Hall ferromagnets. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	14
145	Field-effect magnetization reversal in ferromagnetic semiconductor quantum wells. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	14
144	Observability of counterpropagating modes at fractional quantum Hall edges. <i>Physical Review B</i> , <b>1998</b> , 58, 13778-13792	3.3	14
143	Time-Reversal Symmetry-Breaking Nematic Insulators near Quantum Spin Hall Phase Transitions. <i>Physical Review Letters</i> , <b>2018</b> , 120, 186802	7.4	13
142	Topological magnetoelectric effect decay. <i>Physical Review Letters</i> , <b>2013</b> , 111, 016801	7.4	13

141	Magnetic interactions of substitutional Mn pairs in GaAs. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	13
140	Theory of weak localization in ferromagnetic (Ga,Mn)As. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	13
139	Bilayer Pseudo-Spin Field Effect Transistor (BiSFET): Concepts and Critical Issues for Realization. <i>ECS Transactions</i> , <b>2012</b> , 45, 3-14	1	13
138	Broken-symmetry states in quantum Hall superlattices. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	13
137	Magnetized topological insulator multilayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 27224-27230	11.5	13
136	Tunable K Valley Populations in Hole-Doped Trilayer WSe <sub>2</sub> . <i>Physical Review Letters</i> , <b>2018</b> , 120, 107703.	7.4	12
135	First-principles theory of electron-spin fluctuation coupling and superconducting instabilities in iron selenide. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	12
134	Uniaxial strain induced band splitting in semiconducting SrTiO <sub>3</sub> . <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	12
133	Orbital and spin contributions to the g tensors in metal nanoparticles. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	12
132	Exact diagonalization study of domain structure in integer filling factor quantum Hall ferromagnets. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	12
131	Extensive eigenvalues in spin-spin correlations: A tool for counting pure states in Ising spin glasses. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	12
130	Nature of ergodicity breaking in Ising spin glasses as revealed by correlation function spectral properties. <i>Physical Review Letters</i> , <b>2000</b> , 85, 2609-12	7.4	12
129	Moiré commensurability and the quantum anomalous Hall effect in twisted bilayer graphene on hexagonal boron nitride. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	12
128	Fractional Hofstadter States in Graphene on Hexagonal Boron Nitride. <i>Physical Review Letters</i> , <b>2016</b> , 117, 036802	7.4	11
127	Weak localization, spin relaxation, and spin diffusion: Crossover between weak and strong Rashba coupling limits. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	11
126	Scattering theory of transport in coherent quantum Hall bilayers. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	11
125	Density, spin, and pairing instabilities in polarized ultracold Fermi gases. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	11
124	Electronic correlations and disorder in transport through one-dimensional nanoparticle arrays. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	11

123	Theory of spin waves in diluted-magnetic-semiconductor quantum wells. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	11
122	Edge-state transport in separately contacted double-layer quantum Hall systems. <i>Physical Review B</i> , <b>1996</b> , 53, R16168-R16171	3.3	11
121	Weak-Field Hall Resistivity and Spin-Valley Flavor Symmetry Breaking in Magic-Angle Twisted Bilayer Graphene. <i>Physical Review Letters</i> , <b>2021</b> , 127, 196401	7.4	11
120	Competing Zero-Field Chern Insulators in Superconducting Twisted Bilayer Graphene. <i>Physical Review Letters</i> , <b>2021</b> , 127, 197701	7.4	11
119	Mirror symmetry breaking and lateral stacking shifts in twisted trilayer graphene. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	11
118	Quantum Hall edge states in topological insulator nanoribbons. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	11
117	Resonant Photovoltaic Effect in Doped Magnetic Semiconductors. <i>Physical Review Letters</i> , <b>2020</b> , 124, 087402	7.4	10
116	Quasiparticle mass enhancement and Fermi surface shape modification in oxide two-dimensional electron gases. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	10
115	Chern number spins of Mn acceptor magnets in GaAs. <i>Physical Review Letters</i> , <b>2011</b> , 106, 017202	7.4	10
114	Weak-coupling theory of photoemission and inelastic neutron scattering and the mechanism of superconductivity in the cuprates. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	10
113	Unidirectional Magneto-Resistance in Modulation-Doped Magnetic Topological Insulators. <i>Nano Letters</i> , <b>2019</b> , 19, 692-698	11.5	9
112	Modulated phases of graphene quantum Hall polariton fluids. <i>Nature Communications</i> , <b>2016</b> , 7, 13355	17.4	9
111	Photoemission spectra of massless Dirac fermions on the verge of exciton condensation. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	9
110	Theory of the spin-Seebeck effect at a topological-insulator/ferromagnetic-insulator interface. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	9
109	Quasiparticle properties of quantum Hall ferromagnets. <i>Physical Review B</i> , <b>2000</b> , 62, 2640-2658	3.3	9
108	Impurity-level transitions in two-dimensional magnetoplasmas. <i>Physical Review B</i> , <b>1990</b> , 42, 10811-10814	3.3	9
107	Ultrathin Films of Superconducting Metals as a Platform for Topological Superconductivity. <i>Physical Review Letters</i> , <b>2018</b> , 121, 227701	7.4	9
106	Ferroelectric quantum Hall phase revealed by visualizing Landau level wavefunction interference. <i>Nature Physics</i> , <b>2018</b> , 14, 796-800	16.2	9

105	WKB Estimate of Bilayer Graphene's Magic Twist Angles. <i>Physical Review Letters</i> , <b>2021</b> , 126, 016404	7.4	9
104	Thin films of a three-dimensional topological insulator in a strong magnetic field: Microscopic study. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	8
103	Anomalous perovskite PbRuO <sub>3</sub> stabilized under high pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 20003-7	11.5	8
102	Spontaneous Quantum Hall States and Novel Luttinger Liquids in Chiral Graphene. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 334, 012002	0.3	8
101	Comment on "Coexistence of superconductivity and ferromagnetism in ferromagnetic metals". <i>Physical Review Letters</i> , <b>2004</b> , 92, 199705; author reply 199706	7.4	8
100	Edge magnetoplasmons in quantum Hall line junction systems. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	8
99	Quantum Dynamics of Pseudospin Solitons in Double-Layer Quantum Hall Systems. <i>Physical Review Letters</i> , <b>1999</b> , 83, 1411-1414	7.4	8
98	Combined Minivalley and Layer Control in Twisted Double Bilayer Graphene. <i>Physical Review Letters</i> , <b>2020</b> , 125, 176801	7.4	8
97	Terahertz Faraday and Kerr rotation spectroscopy of Bi <sub>2</sub> S <sub>3</sub> films in high magnetic fields up to 30 tesla. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	8
96	Floquet engineering of topological transitions in a twisted transition metal dichalcogenide homobilayer. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	8
95	Exact Diagonalization for Magic-Angle Twisted Bilayer Graphene. <i>Physical Review Letters</i> , <b>2021</b> , 127, 147203	7.4	8
94	Tunneling and fluctuating electron-hole Cooper pairs in double bilayer graphene. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	7
93	Persistent current states in bilayer graphene. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	7
92	Quantum transport simulation of exciton condensate transport physics in a double-layer graphene system. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	7
91	RENORMALIZED LANDAU LEVELS AND PARTICLE-HOLE SYMMETRY IN GRAPHENE. <i>International Journal of Modern Physics B</i> , <b>2009</b> , 23, 2634-2640	1.1	7
90	Landau levels and band bending in few-layer epitaxial graphene. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	7
89	SUPERCONDUCTIVITY: Visualizing Quasi-Particle Scattering Resonances. <i>Science</i> , <b>1999</b> , 285, 57-58	33.3	7
88	Metal-insulator transition in transition metal dichalcogenide heterobilayer moiré superlattices. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	7



87	Electron-exciton interactions in the exciton-polaron problem. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	7
86	Geometric quenching of orbital pair breaking in a single crystalline superconducting nanomesh network. <i>Nature Communications</i> , <b>2018</b> , 9, 5431	17.4	7
85	In-Plane Critical Magnetic Fields in Magic-Angle Twisted Trilayer Graphene. <i>Physical Review Letters</i> , <b>2021</b> , 127, 097001	7.4	7
84	Emerging exciton physics in transition metal dichalcogenide heterobilayers. <i>Nature Reviews Materials</i> ,	73.3	7
83	Linear magnetoresistance induced by intra-scattering semiclassics of Bloch electrons. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	6
82	Fermionic physics in dipolariton condensates. <i>Physical Review Letters</i> , <b>2014</b> , 112, 116401	7.4	6
81	Orbital and spin order in oxide two-dimensional electron gases. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	6
80	Terahertz conductivity of graphene on boron nitride. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	6
79	Effect of spin fluctuations on quasiparticle excitations: First-principles theory and application to sodium and lithium. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	6
78	Theory of high-energy features in the tunneling spectra of quantum-Hall systems. <i>Physical Review Letters</i> , <b>2010</b> , 105, 206801	7.4	6
77	Thermodynamic and tunneling density of states of the integer quantum Hall critical state. <i>Physical Review B</i> , <b>2001</b> , 65,	3.3	6
76	Extremely imbalanced two-dimensional electron-hole-photon systems. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	6
75	Lattice collective modes from a continuum model of magic-angle twisted bilayer graphene. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	6
74	Microscopic theory of equilibrium polariton condensates. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	6
73	Quantum parity Hall effect in Bernal-stacked trilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 10286-10290	11.5	5
72	Manipulating anomalous Hall antiferromagnets with magnetic fields. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	5
71	Electrical Reservoirs for Bilayer Excitons. <i>Physical Review Letters</i> , <b>2018</b> , 121, 067702	7.4	5
70	Stacking dependence of carrier interactions in multilayer graphene systems. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	5

69	SU(3) and SU(4) Singlet Quantum Hall States at $\nu=2/3$ . <i>Physical Review Letters</i> , <b>2015</b> , 115, 166805	7.4	5
68	Quantum theory of bilayer quantum Hall smectics. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	5
67	New twist for magnetic monopoles. <i>Physics World</i> , <b>2004</b> , 17, 18-19	0.5	5
66	Comment on "Thermoinduced magnetization in nanoparticles of antiferromagnetic materials". <i>Physical Review Letters</i> , <b>2005</b> , 94, 089701; author reply 089702	7.4	5
65	Multicomponent Quantum Hall Systems: The Sum of Their Parts and More 161-224		5
64	Magnetoelectric Response of Antiferromagnetic CrI Bilayers. <i>Nano Letters</i> , <b>2021</b> , 21, 1948-1954	11.5	5
63	Valley-dependent magnetoresistance in two-dimensional semiconductors. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	5
62	THE CIRCULAR PHOTO GALVANIC EFFECT IN TWO-DIMENSIONAL HOLE GASES IN PERPENDICULAR MAGNETIC FIELD. <i>International Journal of Modern Physics B</i> , <b>2009</b> , 23, 2867-2871	1.1	4
61	Intrinsic Curie temperature bistability in ferromagnetic semiconductor resonant tunneling diodes. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	4
60	Electronic structure of carbon nanotubes on graphene substrates. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	4
59	Giant field-like torque by the out-of-plane magnetic spin Hall effect in a topological antiferromagnet. <i>Nature Communications</i> , <b>2021</b> , 12, 6491	17.4	4
58	Electrically controlled two-dimensional electron-hole fluids. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	4
57	Scattering of Magnons at Graphene Quantum-Hall-Magnet Junctions. <i>Physical Review Letters</i> , <b>2021</b> , 126, 117203	7.4	4
56	Gate-tunable quantum anomalous Hall effects in MnBi <sub>2</sub> Te <sub>4</sub> thin films. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	4
55	Current-Driven Magnetization Reversal in Orbital Chern Insulators. <i>Physical Review Letters</i> , <b>2021</b> , 126, 056801	7.4	4
54	Multiple flat bands and topological Hofstadter butterfly in twisted bilayer graphene close to the second magic angle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
53	Anomalous Hall antiferromagnets. <i>Nature Reviews Materials</i> ,	73.3	4
52	Bilayer Pseudospin Junction Transistor (BiSJT) for Beyond-CMOS Logic. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 4759-4762	2.9	3

51	Impurity cyclotron resonance of anomalous Dirac electrons in graphene. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 325302	1.8	3
50	Electron-electron interactions in nonequilibrium bilayer graphene. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	3
49	Interaction correction to the magnetoelectric polarizability of Z2 topological insulators. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	3
48	Quantum vortex dynamics in two-dimensional neutral superfluids. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	3
47	Spin-orbit interactions in bilayer exciton-condensate ferromagnets. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	3
46	Quantum theory of cold bosonic atoms in optical lattices. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	3
45	Pseudospin transfer torques in semiconductor electron bilayers. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	3
44	Bilayer pseudoSpin field effect transistor (BiSFET): A proposed logic device and circuits <b>2009</b> ,		3
43	Magnetic anisotropy of isolated cobalt nanoplatelets. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	3
42	Noise spectroscopy and interlayer phase coherence in bilayer quantum Hall systems. <i>Physical Review Letters</i> , <b>2004</b> , 92, 086803	7.4	3
41	Collective transport in bilayer quantum Hall systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 22, 19-24	3	3
40	Hartree-Fock theory of hole stripe states. <i>Physical Review B</i> , <b>2000</b> , 62, R7747-R7750	3.3	3
39	Majorana-based quantum computing in nanowire devices. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	3
38	Metamagnetism of few-layer topological antiferromagnets. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	3
37	Magneto-Coulomb Drag and Hall Drag in Double-Layer Dirac Systems. <i>Physical Review Letters</i> , <b>2019</b> , 122, 186602	7.4	2
36	Vortex-lattice structure and topological superconductivity in the quantum Hall regime. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
35	Optical conductivity of the t2g two-dimensional electron gas. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	2
34	Publisher's Note: Theory of two-dimensional spatially indirect equilibrium exciton condensates [Phys. Rev. B 92, 165121 (2015)]. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	2

- 33 Half-metallic magnetism and the search for better spin valves. *Journal of Applied Physics*, **2014**, 116, 083906 2
- 32 Quantum wells in polar-nonpolar oxide heterojunction systems. *Physical Review B*, **2009**, 79, 3-3 2
- 31 Transverse pseudospin susceptibility and tunneling parameters of double-layer electron-gas systems. *Physical Review B*, **1997**, 55, R16017-R16020 3-3 2
- 30 Nonlocal sidewall response and deviation from exact quantization of the topological magnetoelectric effect in axion-insulator thin films. *Physical Review B*, **2021**, 104, 3-3 2
- 29 Competing magnetic states in transition metal dichalcogenide moiré materials. *Physical Review B*, **2021**, 104, 3-3 2
- 28 PTCDA Molecular Monolayer on Pb Thin Films: An Unusual  $\pi$ -Electron Kondo System and Its Interplay with a Quantum-Confined Superconductor. *Physical Review Letters*, **2021**, 127, 186805 7-4 2
- 27 Anatomy of magnetic anisotropy induced by Rashba spin-orbit interactions. *Physical Review B*, **2018**, 98, 3-3 2
- 26 Tunneling density of states, correlation energy, and spin polarization in the fractional quantum Hall regime. *Physical Review B*, **2019**, 100, 3-3 1
- 25 Theory of  $I_V$  characteristics of magnetic Josephson junctions. *Physical Review B*, **2010**, 82, 3-3 1
- 24 Phonon-assisted transport through a double quantum dot: magnetic field dependence in a spin blockade regime. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2006**, 3, 3774-3777 1
- 23 Noncollinear Ground States in Ferromagnetic (III,Mn)V Semiconductors. *Journal of Superconductivity and Novel Magnetism*, **2003**, 16, 11-14 1
- 22 Quantitative probe of pairing correlations in a cold fermionic-atom gas. *Physical Review A*, **2005**, 71, 2.6 1
- 21 Phonon-mediated drag at  $\nu=1/2$ : A test of the Chern-Simons composite-fermion theory. *Physical Review B*, **2000**, 62, 10940-10949 3-3 1
- 20 Spin excitations in metallic kagome lattice FeSn and CoSn. *Communications Physics*, **2021**, 4, 5-4 1
- 19 Fabry-Pérot cavities and quantum dot formation at gate-defined interfaces in twisted double bilayer graphene. *2D Materials*, 5-9 1
- 18 Spin-Superfluidity and Spin-Current Mediated Nonlocal Transport 525-548 1
- 17 Majorana zero modes in a cylindrical semiconductor quantum wire. *Physical Review B*, **2021**, 104, 3-3 1
- 16 Moiré-assisted fractional quantum Hall state spectroscopy. *Physical Review B*, **2016**, 94, 3-3 1

- 15 Bulk and edge properties of twisted double bilayer graphene. *Nature Physics*, **2022**, 18, 48-53 16.2 1
- 14 Crescent States in Charge-Imbalanced Polariton Condensates. *Physical Review Letters*, **2020**, 125, 067405.4 0
- 13 Quantum upside-down cake. *Nature*, **2018**, 555, 36-37 50.4
- 12 Symmetry Breaking in Graphene's Quantum Hall Regime: The Competition Between Interactions and Disorder. *Nanoscience and Technology*, **2014**, 301-326 0.6
- 11 Theoretical studies of single magnetic impurities on the surface of semiconductors and topological insulators. *Materials Research Society Symposia Proceedings*, **2013**, 1564, 1
- 10 ANOMALOUS TRANSPORT IN METALS AND SEMICONDUCTORS. *International Journal of Modern Physics B*, **2008**, 22, 120-120 1.1
- 9 Interplay of acoustic phonons and Overhauser interaction in spin blockade removal in double quantum dots. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 469-471
- 8 Overhauser field-induced electron transport through weakly coupled double quantum dots. *Physica Status Solidi (A) Applications and Materials Science*, **2008**, 205, 1266-1269 1.6
- 7 Spin blockade removal in a double quantum dot via hyperfine interaction. *Physica E: Low-Dimensional Systems and Nanostructures*, **2006**, 34, 429-432 3
- 6 NUMERICAL KUBO FORMULA STUDY OF FRICTIONAL DRAG IN THE INTEGER QUANTUM HALL REGIME. *International Journal of Modern Physics B*, **2004**, 18, 3621-3624 1.1
- 5 CORRELATIONS WEAK AND STRONG: DIVERS GUISES OF THE TWO-DIMENSIONAL ELECTRON GAS. *International Journal of Modern Physics B*, **1999**, 13, 447-459 1.1
- 4 Anomalous Drag in Electron-Hole Condensates with Granulated Order. *Physical Review Letters*, **2021**, 127, 166801 7.4
- 3 Tunneling Exponents in Realistic Quantum Wires Using the Mean Field Approximation. *Journal of the Physical Society of Japan*, **2003**, 72, 195-196 1.5
- 2 Clinician's Commentary on Armstrong et al. *Physiotherapy Canada Physiotherapie Canada*, **2016**, 68, 355-356
- 1 Preface to Special Topic: 21st International Conference on Magnetism, 15-20 September 2018, San Francisco, CA, USA. *AIP Advances*, **2018**, 8, 101101 1.5