

Allan H Macdonald

List of Publications by Year in Descending Order

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

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	Bulk and edge properties of twisted double bilayer graphene. <i>Nature Physics</i> , 2022 , 18, 48-53	16.2	1
499	Nonlocal sidewall response and deviation from exact quantization of the topological magnetoelectric effect in axion-insulator thin films. <i>Physical Review B</i> , 2021 , 104,	3.3	2
498	Weak-Field Hall Resistivity and Spin-Valley Flavor Symmetry Breaking in Magic-Angle Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021 , 127, 196401	7.4	11
497	Competing Zero-Field Chern Insulators in Superconducting Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021 , 127, 197701	7.4	11
496	Giant field-like torque by the out-of-plane magnetic spin Hall effect in a topological antiferromagnet. <i>Nature Communications</i> , 2021 , 12, 6491	17.4	4
495	Spin excitations in metallic kagome lattice FeSn and CoSn. <i>Communications Physics</i> , 2021 , 4,	5.4	1
494	Competing magnetic states in transition metal dichalcogenide moiré materials. <i>Physical Review B</i> , 2021 , 104,	3.3	2
493	Anomalous Drag in Electron-Hole Condensates with Granulated Order. <i>Physical Review Letters</i> , 2021 , 127, 166801	7.4	
492	PTCDA Molecular Monolayer on Pb Thin Films: An Unusual π -Electron Kondo System and Its Interplay with a Quantum-Confined Superconductor. <i>Physical Review Letters</i> , 2021 , 127, 186805	7.4	2
491	Strongly correlated excitonic insulator in atomic double layers. <i>Nature</i> , 2021 , 598, 585-589	50.4	18
490	The marvels of moiré materials. <i>Nature Reviews Materials</i> , 2021 , 6, 201-206	73.3	41
489	π -Valley transition metal dichalcogenide moiré bands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	17
488	Scattering of Magnons at Graphene Quantum-Hall-Magnet Junctions. <i>Physical Review Letters</i> , 2021 , 126, 117203	7.4	4
487	Phonon renormalization in reconstructed MoS ₂ moiré superlattices. <i>Nature Materials</i> , 2021 , 20, 1100-1105	27	31
486	Gate-tunable quantum anomalous Hall effects in MnBi ₂ Te ₄ thin films. <i>Physical Review Materials</i> , 2021 , 5,	3.2	4
485	Metamagnetism of few-layer topological antiferromagnets. <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
484	Metal-insulator transition in transition metal dichalcogenide heterobilayer moiré superlattices. <i>Physical Review B</i> , 2021 , 103,	3.3	7

483	Majorana zero modes in a cylindrical semiconductor quantum wire. <i>Physical Review B</i> , 2021 , 104,	3.3	1
482	Lattice collective modes from a continuum model of magic-angle twisted bilayer graphene. <i>Physical Review B</i> , 2021 , 104,	3.3	6
481	Mirror symmetry breaking and lateral stacking shifts in twisted trilayer graphene. <i>Physical Review B</i> , 2021 , 104,	3.3	11
480	Floquet engineering of topological transitions in a twisted transition metal dichalcogenide homobilayer. <i>Physical Review B</i> , 2021 , 103,	3.3	8
479	Current-Driven Magnetization Reversal in Orbital Chern Insulators. <i>Physical Review Letters</i> , 2021 , 126, 056801	7.4	4
478	Electron-exciton interactions in the exciton-polaron problem. <i>Physical Review B</i> , 2021 , 103,	3.3	7
477	Magnetoelectric Response of Antiferromagnetic CrI Bilayers. <i>Nano Letters</i> , 2021 , 21, 1948-1954	11.5	5
476	Moiré commensurability and the quantum anomalous Hall effect in twisted bilayer graphene on hexagonal boron nitride. <i>Physical Review B</i> , 2021 , 103,	3.3	12
475	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> , 2021 , 118,	11.5	4
474	In-Plane Critical Magnetic Fields in Magic-Angle Twisted Trilayer Graphene. <i>Physical Review Letters</i> , 2021 , 127, 097001	7.4	7
473	Exact Diagonalization for Magic-Angle Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021 , 127, 147203	7.4	8
472	Correlated electron-hole state in twisted double-bilayer graphene. <i>Science</i> , 2021 , 373, 1257-1260	33.3	16
471	WKB Estimate of Bilayer Graphene's Magic Twist Angles. <i>Physical Review Letters</i> , 2021 , 126, 016404	7.4	9
470	Voltage-Controlled Magnetic Reversal in Orbital Chern Insulators. <i>Physical Review Letters</i> , 2020 , 125, 227702	7.4	18
469	Linear magnetoresistance induced by intra-scattering semiclassics of Bloch electrons. <i>Physical Review B</i> , 2020 , 101,	3.3	6
468	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> , 2020 , 117, 13908-13913	11.5	16
467	Simulation of Hubbard model physics in WSe/WS moiré superlattices. <i>Nature</i> , 2020 , 579, 353-358	50.4	195
466	Manipulating anomalous Hall antiferromagnets with magnetic fields. <i>Physical Review B</i> , 2020 , 101,	3.3	5

465	Vortex-lattice structure and topological superconductivity in the quantum Hall regime. <i>Physical Review B</i> , 2020 , 101,	3.3	2
464	Nature of the Correlated Insulator States in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2020 , 124, 097601	7.4	135
463	Carrier- and strain-tunable intrinsic magnetism in two-dimensional MAX3 transition metal chalcogenides. <i>Physical Review B</i> , 2020 , 101,	3.3	21
462	Resonant Photovoltaic Effect in Doped Magnetic Semiconductors. <i>Physical Review Letters</i> , 2020 , 124, 087402	7.4	10
461	Tunneling and fluctuating electron-hole Cooper pairs in double bilayer graphene. <i>Physical Review B</i> , 2020 , 101,	3.3	7
460	Electronic structure of carbon nanotubes on graphene substrates. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
459	Extremely imbalanced two-dimensional electron-hole-photon systems. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
458	Combined Minivalley and Layer Control in Twisted Double Bilayer Graphene. <i>Physical Review Letters</i> , 2020 , 125, 176801	7.4	8
457	Magnetized topological insulator multilayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27224-27230	11.5	13
456	Graphene bilayers with a twist. <i>Nature Materials</i> , 2020 , 19, 1265-1275	27	104
455	Electrical switching of magnetic order in an orbital Chern insulator. <i>Nature</i> , 2020 , 588, 66-70	50.4	63
454	Crescent States in Charge-Imbalanced Polariton Condensates. <i>Physical Review Letters</i> , 2020 , 125, 067405	7.4	0
453	Electrically controlled two-dimensional electron-hole fluids. <i>Physical Review B</i> , 2020 , 102,	3.3	4
452	Majorana-based quantum computing in nanowire devices. <i>Physical Review B</i> , 2020 , 102,	3.3	3
451	Theory of photon condensation in a spatially varying electromagnetic field. <i>Physical Review B</i> , 2020 , 102,	3.3	20
450	Spreading Frost Under the Microscope. <i>Physics Magazine</i> , 2019 , 12,	1.1	27
449	Cavity quantum electrodynamics of strongly correlated electron systems: A no-go theorem for photon condensation. <i>Physical Review B</i> , 2019 , 100,	3.3	39
448	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> , 2019 , 116, 20274-20279	11.5	21

447	Unidirectional Magneto-Resistance in Modulation-Doped Magnetic Topological Insulators. <i>Nano Letters</i> , 2019 , 19, 692-698	11.5	9
446	Magneto-Coulomb Drag and Hall Drag in Double-Layer Dirac Systems. <i>Physical Review Letters</i> , 2019 , 122, 186602	7.4	2
445	Quantum parity Hall effect in Bernal-stacked trilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10286-10290	11.5	5
444	Topological Insulators in Twisted Transition Metal Dichalcogenide Homobilayers. <i>Physical Review Letters</i> , 2019 , 122, 086402	7.4	145
443	Evidence for moiré excitons in van der Waals heterostructures. <i>Nature</i> , 2019 , 567, 71-75	50.4	538
442	Tunneling density of states, correlation energy, and spin polarization in the fractional quantum Hall regime. <i>Physical Review B</i> , 2019 , 100,	3.3	1
441	Correlated Insulating States in Twisted Double Bilayer Graphene. <i>Physical Review Letters</i> , 2019 , 123, 197702	7.4	110
440	Terahertz Faraday and Kerr rotation spectroscopy of Bi ₂ Se ₃ films in high magnetic fields up to 30 tesla. <i>Physical Review B</i> , 2019 , 100,	3.3	8
439	Superconductors, orbital magnets and correlated states in magic-angle bilayer graphene. <i>Nature</i> , 2019 , 574, 653-657	50.4	490
438	Magnetic and magnetic inverse spin Hall effects in a non-collinear antiferromagnet. <i>Nature</i> , 2019 , 565, 627-630	50.4	118
437	Electrical switching of the topological anomalous Hall effect in a non-collinear antiferromagnet above room temperature. <i>Nature Electronics</i> , 2018 , 1, 172-177	28.4	99
436	Tunable K Valley Populations in Hole-Doped Trilayer WSe ₂ . <i>Physical Review Letters</i> , 2018 , 120, 107703	7.4	12
435	Topological antiferromagnetic spintronics. <i>Nature Physics</i> , 2018 , 14, 242-251	16.2	248
434	Strongly Enhanced Tunneling at Total Charge Neutrality in Double-Bilayer Graphene-WSe ₂ Heterostructures. <i>Physical Review Letters</i> , 2018 , 120, 177702	7.4	53
433	Quantum anomalous Hall Majorana platform. <i>Physical Review B</i> , 2018 , 97,	3.3	15
432	Theory of optical absorption by interlayer excitons in transition metal dichalcogenide heterobilayers. <i>Physical Review B</i> , 2018 , 97,	3.3	122
431	Time-Reversal Symmetry-Breaking Nematic Insulators near Quantum Spin Hall Phase Transitions. <i>Physical Review Letters</i> , 2018 , 120, 186802	7.4	13
430	Exciton-polarons in doped semiconductors in a strong magnetic field. <i>Physical Review B</i> , 2018 , 97,	3.3	22

429	Quantum upside-down cake. <i>Nature</i> , 2018 , 555, 36-37	50.4	
428	Topologically Protected Helical States in Minimally Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2018 , 121, 037702	7.4	113
427	Helical network model for twisted bilayer graphene. <i>Physical Review B</i> , 2018 , 98,	3.3	49
426	Hubbard Model Physics in Transition Metal Dichalcogenide Moiré Bands. <i>Physical Review Letters</i> , 2018 , 121, 026402	7.4	176
425	Electrical Reservoirs for Bilayer Excitons. <i>Physical Review Letters</i> , 2018 , 121, 067702	7.4	5
424	Long-distance spin transport through a graphene quantum Hall antiferromagnet. <i>Nature Physics</i> , 2018 , 14, 907-911	16.2	47
423	Preface to Special Topic: 21st International Conference on Magnetism, 15-20 September 2018, San Francisco, CA, USA. <i>AIP Advances</i> , 2018 , 8, 101101	1.5	
422	Accurate Gap Determination in Monolayer and Bilayer Graphene/ h-BN Moiré Superlattices. <i>Nano Letters</i> , 2018 , 18, 7732-7741	11.5	38
421	Geometric quenching of orbital pair breaking in a single crystalline superconducting nanomesh network. <i>Nature Communications</i> , 2018 , 9, 5431	17.4	7
420	Theory of Phonon-Mediated Superconductivity in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2018 , 121, 257001	7.4	222
419	Ultrathin Films of Superconducting Metals as a Platform for Topological Superconductivity. <i>Physical Review Letters</i> , 2018 , 121, 227701	7.4	9
418	Energy-Resolved Photoconductivity Mapping in a Monolayer-Bilayer WSe Lateral Heterostructure. <i>Nano Letters</i> , 2018 , 18, 7200-7206	11.5	19
417	Anatomy of magnetic anisotropy induced by Rashba spin-orbit interactions. <i>Physical Review B</i> , 2018 , 98,	3.3	2
416	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> , 2018 , 115, 9935-9940	11.5	23
415	Valley-dependent magnetoresistance in two-dimensional semiconductors. <i>Physical Review B</i> , 2018 , 97,	3.3	5
414	Ferroelectric quantum Hall phase revealed by visualizing Landau level wavefunction interference. <i>Nature Physics</i> , 2018 , 14, 796-800	16.2	9
413	Many-body theory of trion absorption features in two-dimensional semiconductors. <i>Physical Review B</i> , 2017 , 95,	3.3	118
412	Spatially indirect exciton condensate phases in double bilayer graphene. <i>Physical Review B</i> , 2017 , 95,	3.3	21

411	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	11.5	294
410	Topological Dirac States beyond π Orbitals for Silicene on SiC(0001) Surface. <i>Nano Letters</i> , 2017 , 17, 6195-6202	11.5	25
409	Bilayer Pseudospin Junction Transistor (BiSJT) for Beyond-CMOS Logic. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 4759-4762	2.9	3
408	Moiré band model and band gaps of graphene on hexagonal boron nitride. <i>Physical Review B</i> , 2017 , 96,	3.3	44
407	Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2017 , 17, 7761-7766	11.5	29
406	Ordering mechanism and quantum anomalous Hall effect of magnetically doped topological insulators. <i>Physical Review B</i> , 2017 , 96,	3.3	20
405	Interband coherence response to electric fields in crystals: Berry-phase contributions and disorder effects. <i>Physical Review B</i> , 2017 , 96,	3.3	28
404	Orbital and spin order in oxide two-dimensional electron gases. <i>Physical Review B</i> , 2017 , 95,	3.3	6
403	Theory of the spin-Seebeck effect at a topological-insulator/ferromagnetic-insulator interface. <i>Physical Review B</i> , 2017 , 95,	3.3	9
402	Topological Exciton Bands in Moiré Heterojunctions. <i>Physical Review Letters</i> , 2017 , 118, 147401	7.4	155
401	Interface-Induced Phenomena in Magnetism. <i>Reviews of Modern Physics</i> , 2017 , 89,	40.5	475
400	Quantum kinetic theory of the chiral anomaly. <i>Physical Review B</i> , 2017 , 96,	3.3	23
399	Trion Valley Coherence in Monolayer Semiconductors. <i>2D Materials</i> , 2017 , 4,	5.9	20
398	Electronic and magnetic properties of single-layer MPX ₃ metal phosphorous trichalcogenides. <i>Physical Review B</i> , 2016 , 94,	3.3	166
397	Quasiparticle mass enhancement and Fermi surface shape modification in oxide two-dimensional electron gases. <i>Physical Review B</i> , 2016 , 93,	3.3	10
396	SU(3) Quantum Hall Ferromagnetism in SnTe. <i>Physical Review Letters</i> , 2016 , 116, 026803	7.4	17
395	Fractional Hofstadter States in Graphene on Hexagonal Boron Nitride. <i>Physical Review Letters</i> , 2016 , 117, 036802	7.4	11
394	Modulated phases of graphene quantum Hall polariton fluids. <i>Nature Communications</i> , 2016 , 7, 13355	17.4	9

393	Enhanced spin Seebeck effect signal due to spin-momentum locked topological surface states. <i>Nature Communications</i> , 2016 , 7, 11458	17.4	77
392	Observation of a nematic quantum Hall liquid on the surface of bismuth. <i>Science</i> , 2016 , 354, 316-321	33.3	54
391	Modulation of mechanical resonance by chemical potential oscillation in graphene. <i>Nature Physics</i> , 2016 , 12, 240-244	16.2	28
390	Direct measurement of exciton valley coherence in monolayer WSe ₂ . <i>Nature Physics</i> , 2016 , 12, 677-682	16.2	168
389	Clinician's Commentary on Armstrong et al. <i>Physiotherapy Canada Physiotherapie Canada</i> , 2016 , 68, 355-356		
388	Microscopic theory of equilibrium polariton condensates. <i>Physical Review B</i> , 2016 , 94,	3.3	6
387	Moiré-assisted fractional quantum Hall state spectroscopy. <i>Physical Review B</i> , 2016 , 94,	3.3	1
386	Two-dimensional chiral topological superconductivity in Shiba lattices. <i>Nature Communications</i> , 2016 , 7, 12297	17.4	64
385	Ultrathin two-dimensional superconductivity with strong spin-orbit coupling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10513-7	11.5	31
384	Quantum Hall edge states in topological insulator nanoribbons. <i>Physical Review B</i> , 2016 , 94,	3.3	11
383	Thin films of a three-dimensional topological insulator in a strong magnetic field: Microscopic study. <i>Physical Review B</i> , 2015 , 91,	3.3	8
382	Origin of band gaps in graphene on hexagonal boron nitride. <i>Nature Communications</i> , 2015 , 6, 6308	17.4	192
381	Exciton band structure of monolayer MoS ₂ . <i>Physical Review B</i> , 2015 , 91,	3.3	185
380	Transport and particle-hole asymmetry in graphene on boron nitride. <i>Physical Review B</i> , 2015 , 91,	3.3	27
379	Electronic cooling via interlayer Coulomb coupling in multilayer epitaxial graphene. <i>Nature Communications</i> , 2015 , 6, 8105	17.4	21
378	Strong interface-induced spin-orbit interaction in graphene on WS ₂ . <i>Nature Communications</i> , 2015 , 6, 8339	17.4	233
377	Persistent current states in bilayer graphene. <i>Physical Review B</i> , 2015 , 91,	3.3	7
376	Stacking dependence of carrier interactions in multilayer graphene systems. <i>Physical Review B</i> , 2015 , 92,	3.3	5

375	Terahertz conductivity of graphene on boron nitride. <i>Physical Review B</i> , 2015 , 92,	3-3	6
374	Local spectroscopy of moiré-induced electronic structure in gate-tunable twisted bilayer graphene. <i>Physical Review B</i> , 2015 , 92,	3-3	86
373	Quantum transport simulation of exciton condensate transport physics in a double-layer graphene system. <i>Physical Review B</i> , 2015 , 92,	3-3	7
372	Publisher's Note: Theory of two-dimensional spatially indirect equilibrium exciton condensates [Phys. Rev. B 92, 165121 (2015)]. <i>Physical Review B</i> , 2015 , 92,	3-3	2
371	Interaction correction to the magnetoelectric polarizability of Z2 topological insulators. <i>Physical Review B</i> , 2015 , 92,	3-3	3
370	SU(3) and SU(4) Singlet Quantum Hall States at $\nu=2/3$. <i>Physical Review Letters</i> , 2015 , 115, 166805	7-4	5
369	Theory of two-dimensional spatially indirect equilibrium exciton condensates. <i>Physical Review B</i> , 2015 , 92,	3-3	54
368	First-principles theory of electron-spin fluctuation coupling and superconducting instabilities in iron selenide. <i>Physical Review B</i> , 2015 , 91,	3-3	12
367	Anomalous Hall effect arising from noncollinear antiferromagnetism. <i>Physical Review Letters</i> , 2014 , 112, 017205	7-4	360
366	Accurate tight-binding models for the π bands of bilayer graphene. <i>Physical Review B</i> , 2014 , 89,	3-3	62
365	Quantum anomalous Hall effect in graphene proximity coupled to an antiferromagnetic insulator. <i>Physical Review Letters</i> , 2014 , 112, 116404	7-4	273
364	Broken SU(4) symmetry and the fractional quantum Hall effect in graphene. <i>Physical Review Letters</i> , 2014 , 112, 126804	7-4	24
363	Capacitance of carbon-based electrical double-layer capacitors. <i>Nature Communications</i> , 2014 , 5, 3317	17-4	463
362	Band offset and negative compressibility in graphene-MoS2 heterostructures. <i>Nano Letters</i> , 2014 , 14, 2039-45	11-5	117
361	Direct chemical conversion of graphene to boron- and nitrogen- and carbon-containing atomic layers. <i>Nature Communications</i> , 2014 , 5, 3193	17-4	169
360	Fermionic physics in dipolariton condensates. <i>Physical Review Letters</i> , 2014 , 112, 116401	7-4	6
359	Competing ordered states with filling factor two in bilayer graphene. <i>Nature Communications</i> , 2014 , 5, 4550	17-4	18
358	Impurity cyclotron resonance of anomalous Dirac electrons in graphene. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 325302	1-8	3

357	Topological matter. Observation of Majorana fermions in ferromagnetic atomic chains on a superconductor. <i>Science</i> , 2014 , 346, 602-7	33.3	1222
356	Optical conductivity of the t _{2g} two-dimensional electron gas. <i>Physical Review B</i> , 2014 , 89,	3.3	2
355	Ab initio theory of moiré superlattice bands in layered two-dimensional materials. <i>Physical Review B</i> , 2014 , 89,	3.3	155
354	Current Partition at Topological Channel Intersections. <i>Physical Review Letters</i> , 2014 , 112,	7.4	45
353	SO(5) symmetry in the quantum Hall effect in graphene. <i>Physical Review B</i> , 2014 , 90,	3.3	33
352	Stable path to ferromagnetic hydrogenated graphene growth. <i>Physical Review B</i> , 2014 , 90,	3.3	19
351	Weak localization, spin relaxation, and spin diffusion: Crossover between weak and strong Rashba coupling limits. <i>Physical Review B</i> , 2014 , 90,	3.3	11
350	Nonlocal transport mediated by spin supercurrents. <i>Physical Review B</i> , 2014 , 90,	3.3	38
349	Spontaneous layer-pseudospin domain walls in bilayer graphene. <i>Physical Review Letters</i> , 2014 , 113, 116803	0.3	24
348	Half-metallic magnetism and the search for better spin valves. <i>Journal of Applied Physics</i> , 2014 , 116, 083906	0.6	2
347	Topological superconductivity induced by ferromagnetic metal chains. <i>Physical Review B</i> , 2014 , 90,	3.3	94
346	Symmetry Breaking in Graphene's Quantum Hall Regime: The Competition Between Interactions and Disorder. <i>Nanoscience and Technology</i> , 2014 , 301-326	0.6	
345	Effect of spin fluctuations on quasiparticle excitations: First-principles theory and application to sodium and lithium. <i>Physical Review B</i> , 2014 , 89,	3.3	6
344	Gapped broken symmetry states in ABC-stacked trilayer graphene. <i>Physical Review B</i> , 2013 , 88,	3.3	16
343	Ultrathin high-temperature oxidation-resistant coatings of hexagonal boron nitride. <i>Nature Communications</i> , 2013 , 4, 2541	17.4	418
342	Anomalous perovskite PbRuO ₃ stabilized under high pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20003-7	11.5	8
341	Enhancement of photonic density of states in finite graphene multilayers. <i>Physical Review B</i> , 2013 , 88,	3.3	19
340	Photonic topological insulators. <i>Nature Materials</i> , 2013 , 12, 233-9	27	1045

339	Revealing the electronic band structure of trilayer graphene on SiC: An angle-resolved photoemission study. <i>Physical Review B</i> , 2013 , 88,	3.3	61
338	Electron-electron interactions in nonequilibrium bilayer graphene. <i>Physical Review B</i> , 2013 , 87,	3.3	3
337	Photoemission spectra of massless Dirac fermions on the verge of exciton condensation. <i>Physical Review B</i> , 2013 , 87,	3.3	9
336	Tight-binding model for graphene bands from maximally localized Wannier functions. <i>Physical Review B</i> , 2013 , 87,	3.3	36
335	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, 369-73	11.5	92
334	Landau level mixing and the fractional quantum Hall effect. <i>Physical Review B</i> , 2013 , 87,	3.3	59
333	Topological magnetoelectric effect decay. <i>Physical Review Letters</i> , 2013 , 111, 016801	7.4	13
332	Theory of t2g electron-gas Rashba interactions. <i>Physical Review B</i> , 2013 , 88,	3.3	110
331	Valley Chern numbers and boundary modes in gapped bilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 10546-51	11.5	222
330	Theoretical studies of single magnetic impurities on the surface of semiconductors and topological insulators. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1564, 1		
329	Uniaxial strain induced band splitting in semiconducting SrTiO ₃ . <i>Physical Review B</i> , 2013 , 87,	3.3	12
328	Possible Kondo physics near a metal-insulator crossover in the a-site ordered perovskite CaCu ₃ Ir ₄ O ₁₂ . <i>Physical Review Letters</i> , 2013 , 111, 176403	7.4	21
327	Gate-tunable exchange coupling between cobalt clusters on graphene. <i>Physical Review B</i> , 2013 , 87,	3.3	26
326	Conduction-band edge and Shubnikov-de Haas effect in low-electron-density SrTiO ₃ . <i>Physical Review B</i> , 2013 , 88,	3.3	48
325	Drude weight, cyclotron resonance, and the Dicke model of graphene cavity QED. <i>Physical Review Letters</i> , 2012 , 109, 267404	7.4	39
324	Quantized Casimir force. <i>Physical Review Letters</i> , 2012 , 109, 236806	7.4	40
323	Interaction-enhanced coherence between two-dimensional Dirac layers. <i>Physical Review B</i> , 2012 , 85,	3.3	58
322	Strong Coulomb drag and broken symmetry in double-layer graphene. <i>Nature Physics</i> , 2012 , 8, 896-901	16.2	303

321	Transport spectroscopy of symmetry-broken insulating states in bilayer graphene. <i>Nature Nanotechnology</i> , 2012 , 7, 156-60	28.7	237
320	Quantum Hall effects in graphene-based two-dimensional electron systems. <i>Nanotechnology</i> , 2012 , 23, 052001	3.4	68
319	Distinguishing spontaneous quantum Hall states in bilayer graphene. <i>Physical Review Letters</i> , 2012 , 108, 186804	7.4	48
318	Transport properties of graphene nanoroads in boron nitride sheets. <i>Nano Letters</i> , 2012 , 12, 2936-40	11.5	77
317	Theory of the SrTiO ₃ surface state two-dimensional electron gas. <i>Physical Review B</i> , 2012 , 86,	3.3	105
316	Pseudospin order in monolayer, bilayer and double-layer graphene. <i>Physica Scripta</i> , 2012 , T146, 014012	2.6	40
315	Spintronics and pseudospintronics in graphene and topological insulators. <i>Nature Materials</i> , 2012 , 11, 409-16	27	760
314	Double-layer graphene and topological insulator thin-film plasmons. <i>Physical Review B</i> , 2012 , 85,	3.3	84
313	Visualization of geometric influences on proximity effects in heterogeneous superconductor thin films. <i>Nature Physics</i> , 2012 , 8, 464-469	16.2	60
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