Edward McCann

List of Publications by Year
in descending order

42 papers	5,151 citations	393982 19 h-index	264894 42 g-index
42 all docs	42 docs citations	42 times ranked	3776 citing authors

#	Article	IF	Citations
1	Experimental evidence of disorder enhanced electron-phonon scattering in graphene devices. Carbon, 2021, 178, 632-639.	5.4	7
2	Exchange interaction, disorder, and stacking faults in rhombohedral graphene multilayers. Physical Review B, 2021, 104, .	1.1	5
3	The heat equation for nanoconstrictions in 2D materials with Joule self-heating. Journal Physics D: Applied Physics, 2021, 54, 475303.	1.3	2
4	Films of rhombohedral graphite as two-dimensional topological semimetals. Communications Physics, 2019, 2, .	2.0	22
5	Cyclotron resonance of the magnetic ratchet effect and second harmonic generation in bilayer graphene. Physical Review B, 2018, 97, .	1.1	14
6	Geometrically Enhanced Thermoelectric Effects in Graphene Nanoconstrictions. Nano Letters, 2018, 18, 7719-7725.	4.5	46
7	Interaction-induced insulating states in multilayer graphenes. Physical Review B, 2017, 95, .	1.1	13
8	Magnetic ratchet effect in bilayer graphene. Physical Review B, 2016, 94, .	1.1	19
9	Interaction-induced insulating state in thick multilayer graphene. 2D Materials, 2016, 3, 045014.	2.0	23
10	Insulating state in tetralayers reveals an evenâ€“odd interaction effect in multilayer graphene. Nature Communications, 2015, 6, 6419.	5.8	50
11	Weak Localization and Spin-Orbit Coupling in Monolayer and Bilayer Graphene. Nanoscience and Technology, 2014, , 327-345.	1.5	2
12	The electronic properties of bilayer graphene. Reports on Progress in Physics, 2013, 76, 056503.	8.1	818
13	Multilayer graphenes with mixed stacking structure: Interplay of Bernal and rhombohedral stacking. Physical Review B, 2013, 87, .	1.1	25
14	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>z</mml:mi><mml:mo>â†'</mml:mo><mml:mo>âˆ'</mml:mo><mml:mi>z</mml:mi></mml:math>Symmetry of Spin-Orbit Coupling and Weak Localization in Graphene. Physical Review Letters, 2012, 108, 166606.	2.9	110
15	Spin-orbit coupling and the Landau level spectrum of ABA-stacked trilayer graphene. Journal of Physics: Conference Series, 2011, 334, 012001.	0.3	2
16	Landau level spectra and the quantum Hall effect of multilayer graphene. Physical Review B, 2011, 83, .	1.1	73
17	Electronic Properties of Monolayer and Bilayer Graphene. Nanoscience and Technology, 2011, , 237-275.	1.5	13
18	Manifestation of LOâ€“LA phonons in Raman scattering in graphene. Solid State Communications, 2011, 151, 1071-1074.	0.9	19

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19	Spin-orbit coupling and broken spin degeneracy in multilayer graphene. Physical Review B, 2010, 81, .	1.1	28
20	Parity and valley degeneracy in multilayer graphene. Physical Review B, 2010, 81, .	1.1	102
21	Gate-induced interlayer asymmetry in ABA-stacked trilayer graphene. Physical Review B, 2009, 79, .	1.1	139
22	Trigonal warping and Berryâ€™s phase<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>N</mml:mi><mml:mi>Ï€</mml:mi></mml:mrow></mml:math>in ABC-stacked multilayer graphene. Physical Review B, 2009, 80, .	1.1	194
23	Electrons in bilayer graphene. Solid State Communications, 2007, 143, 110-115.	0.9	194
24	Interlayer asymmetry gap in the electronic band structure of bilayer graphene. Physica Status Solidi (B): Basic Research, 2007, 244, 4112-4117.	0.7	18
25	Landau-Level Degeneracy and Quantum Hall Effect in a Graphite Bilayer. Physical Review Letters, 2006, 96, 086805.	2.9	1,795
26	Asymmetry gap in the electronic band structure of bilayer graphene. Physical Review B, 2006, 74, .	1.1	1,117
27	Degeneracy breaking and intervalley scattering due to short-ranged impurities in finite single-wall carbon nanotubes. Physical Review B, 2005, 71, .	1.1	22
28	SYMMETRY PROPERTIES OF IMPURITIES IN METALLIC SINGLE-WALL CARBON NANOTUBES. International Journal of Modern Physics B, 2004, 18, 3195-3212.	1.0	2
29	A tunnel junction between a ferromagnet and a normal metal: magnon-assisted contribution to thermopower and conductance. Journal of Magnetism and Magnetic Materials, 2004, 268, 123-131.	1.0	11
30	Symmetry of boundary conditions of the Dirac equation for electrons in carbon nanotubes. Journal of Physics Condensed Matter, 2004, 16, 2371-2379.	0.7	128
31	Magnon-assisted transport and thermopower in ferromagnetâ€“normal-metal tunnel junctions. Physical Review B, 2003, 68, .	1.1	21
32	Giant magnetothermopower of magnon-assisted transport in ferromagnetic tunnel junctions. Physical Review B, 2002, 66, .	1.1	38
33	Magnetothermopower and magnon-assisted transport in ferromagnetic tunnel junctions. Applied Physics Letters, 2002, 81, 3609-3611.	1.5	12
34	Magnon-assisted Andreev transport across ferromagnetâ€“superconductor junctions. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 938-941.	1.3	3
35	Parametric correlations of local density-of-states fluctuations in disordered pillars, wires and films. Journal of Physics Condensed Matter, 2001, 13, 6633-6648.	0.7	1
36	Subgap transport in ferromagnet-superconductor junctions due to magnon-assisted Andreev reflection. Physical Review B, 2001, 65, .	1.1	32

#	Article	IF	Citations
37	Weak localization correction to the ferromagnet-superconductor interface resistance. Physical Review B, 2000, 62, 6015-6020.	1.1	5
38	Magnetic susceptibility of disordered nondiffusive mesoscopic systems. Physical Review B, 1999, 59, 13026-13035.	1.1	3
39	From clean to diffusive mesoscopic systems: A semiclassical approach to the magnetic susceptibility. Europhysics Letters, 1998, 43, 241-247.	0.7	2
40	Effect of dephasing on mesoscopic conductance fluctuations in quantum dots with single-channel leads. Physical Review B, 1998, 57, 7219-7227.	1.1	8
41	Mesoscopic conductance fluctuations in dirty quantum dots with single channel leads. Journal of Physics Condensed Matter, 1996, 8, 6719-6728.	0.7	11
42	Spatial correlations and multifractality in the local density of states in disordered mesoscopic systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 205, 393-400.	0.9	2