

Francisco Guinea

List of Publications by Year in descending order

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462
papers

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1612

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473
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473
times ranked

41235
citing authors

#	ARTICLE	IF	CITATIONS
1	The electronic properties of graphene. <i>Reviews of Modern Physics</i> , 2009, 81, 109-162.	16.4	20,779
2	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015, 7, 4598-4810.	2.8	2,452
3	Substrate-induced bandgap opening in epitaxial graphene. <i>Nature Materials</i> , 2007, 6, 770-775.	13.3	2,115
4	Biased Bilayer Graphene: Semiconductor with a Gap Tunable by the Electric Field Effect. <i>Physical Review Letters</i> , 2007, 99, 216802.	2.9	1,728
5	Energy gaps and a zero-field quantum Hall effect in graphene by strain engineering. <i>Nature Physics</i> , 2010, 6, 30-33.	6.5	1,554
6	Strain-Induced Pseudo-Magnetic Fields Greater Than 300 Tesla in Graphene Nanobubbles. <i>Science</i> , 2010, 329, 544-547.	6.0	1,367
7	Universal features of the equation of state of metals. <i>Physical Review B</i> , 1984, 29, 2963-2969.	1.1	1,353
8	Electronic properties of disordered two-dimensional carbon. <i>Physical Review B</i> , 2006, 73, .	1.1	1,292
9	Cloning of Dirac fermions in graphene superlattices. <i>Nature</i> , 2013, 497, 594-597.	13.7	1,107
10	Local Strain Engineering in Atomically Thin MoS ₂ . <i>Nano Letters</i> , 2013, 13, 5361-5366.	4.5	1,041
11	Electron-Electron Interactions in Graphene: Current Status and Perspectives. <i>Reviews of Modern Physics</i> , 2012, 84, 1067-1125.	16.4	999
12	Dynamical polarization of graphene at finite doping. <i>New Journal of Physics</i> , 2006, 8, 318-318.	1.2	966
13	Polaritons in layered two-dimensional materials. <i>Nature Materials</i> , 2017, 16, 182-194.	13.3	963
14	Spin-orbit coupling in curved graphene, fullerenes, nanotubes, and nanotube caps. <i>Physical Review B</i> , 2006, 74, .	1.1	891
15	Damping pathways of mid-infrared plasmons in graphene nanostructures. <i>Nature Photonics</i> , 2013, 7, 394-399.	15.6	815
16	Gauge fields in graphene. <i>Physics Reports</i> , 2010, 496, 109-148.	10.3	797
17	Missing Atom as a Source of Carbon Magnetism. <i>Physical Review Letters</i> , 2010, 104, 096804.	2.9	767
18	Dirac cones reshaped by interaction effects in suspended graphene. <i>Nature Physics</i> , 2011, 7, 701-704.	6.5	703

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19	Designer Dirac fermions and topological phases in molecular graphene. Nature, 2012, 483, 306-310.	13.7	601
20	Electronic states and Landau levels in graphene stacks. Physical Review B, 2006, 73, .	1.1	591
21	Periodically Rippled Graphene: Growth and Spatially Resolved Electronic Structure. Physical Review Letters, 2008, 100, 056807.	2.9	566
22	Ultrathin graphene-based membrane with precise molecular sieving and ultrafast solvent permeation. Nature Materials, 2017, 16, 1198-1202.	13.3	549
23	Disorder Induced Localized States in Graphene. Physical Review Letters, 2006, 96, 036801.	2.9	543
24	Non-Fermi liquid behavior of electrons in the half-filled honeycomb lattice (A renormalization group) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	516
25	Electronic transport in graphene: A semiclassical approach including midgap states. Physical Review B, 2007, 76, .	1.1	515
26	Plasmons and Screening in Monolayer and Multilayer Black Phosphorus. Physical Review Letters, 2014, 113, 106802.	2.9	515
27	Impurity-Induced Spin-Orbit Coupling in Graphene. Physical Review Letters, 2009, 103, 026804.	2.9	461
28	Edge and waveguide terahertz surface plasmon modes in graphene microribbons. Physical Review B, 2011, 84, .	1.1	451
29	Substrate-limited electron dynamics in graphene. Physical Review B, 2008, 77, .	1.1	419
30	Marginal-Fermi-liquid behavior from two-dimensional Coulomb interaction. Physical Review B, 1999, 59, R2474-R2477.	1.1	397
31	Intervalley Scattering, Long-Range Disorder, and Effective Time-Reversal Symmetry Breaking in Graphene. Physical Review Letters, 2006, 97, 196804.	2.9	390
32	Strain engineering in semiconducting two-dimensional crystals. Journal of Physics Condensed Matter, 2015, 27, 313201.	0.7	381
33	Artificial honeycomb lattices for electrons, atoms and photons. Nature Nanotechnology, 2013, 8, 625-633.	15.6	377
34	Surface plasmon enhanced absorption and suppressed transmission in periodic arrays of graphene ribbons. Physical Review B, 2012, 85, .	1.1	373
35	Tight-binding model and direct-gap/indirect-gap transition in single-layer and multilayer MoS ₂ . Physical Review B, 2013, 88, .	1.1	351
36	Limits on Charge Carrier Mobility in Suspended Graphene due to Flexural Phonons. Physical Review Letters, 2010, 105, 266601.	2.9	347

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37	Conductance quantization in mesoscopic graphene. <i>Physical Review B</i> , 2006, 73, .	1.1	320
38	Novel effects of strains in graphene and other two dimensional materials. <i>Physics Reports</i> , 2016, 617, 1-54.	10.3	315
39	Midgap states and charge inhomogeneities in corrugated graphene. <i>Physical Review B</i> , 2008, 77, .	1.1	306
40	Local defects and ferromagnetism in graphene layers. <i>Physical Review B</i> , 2005, 72, .	1.1	299
41	Increasing the elastic modulus of graphene by controlled defect creation. <i>Nature Physics</i> , 2015, 11, 26-31.	6.5	298
42	Coulomb Blockade in Graphene Nanoribbons. <i>Physical Review Letters</i> , 2007, 99, 166803.	2.9	286
43	Enhanced superconductivity in atomically thin TaS ₂ . <i>Nature Communications</i> , 2016, 7, 11043.	5.8	285
44	Generating quantizing pseudomagnetic fields by bending graphene ribbons. <i>Physical Review B</i> , 2010, 81, .	1.1	270
45	<i>Colloquium</i> : Spintronics in graphene and other two-dimensional materials. <i>Reviews of Modern Physics</i> , 2020, 92, .	16.4	265
46	Electronic Properties of Graphene Multilayers. <i>Physical Review Letters</i> , 2006, 97, 266801.	2.9	264
47	Effective two-dimensional Hamiltonian at surfaces. <i>Physical Review B</i> , 1983, 28, 4397-4402.	1.1	260
48	Universal shape and pressure inside bubbles appearing in van der Waals heterostructures. <i>Nature Communications</i> , 2016, 7, 12587.	5.8	260
49	Electronic properties of bilayer and multilayer graphene. <i>Physical Review B</i> , 2008, 78, .	1.1	259
50	Strain-Induced Pseudomagnetic Field for Novel Graphene Electronics. <i>Nano Letters</i> , 2010, 10, 3551-3554.	4.5	252
51	Spin-Orbit-Mediated Spin Relaxation in Graphene. <i>Physical Review Letters</i> , 2009, 103, 146801.	2.9	249
52	Graphene spintronics: the European Flagship perspective. <i>2D Materials</i> , 2015, 2, 030202.	2.0	243
53	The electronic spectrum of fullerenes from the Dirac equation. <i>Nuclear Physics B</i> , 1993, 406, 771-794.	0.9	240
54	Gauge field induced by ripples in graphene. <i>Physical Review B</i> , 2008, 77, .	1.1	232

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55	Existence and topological stability of Fermi points in multilayered graphene. Physical Review B, 2007, 75, .	1.1	226
56	Electron-electron interactions in graphene sheets. Physical Review B, 2001, 63, .	1.1	222
57	Electrostatic effects, band distortions, and superconductivity in twisted graphene bilayers. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 13174-13179.	3.3	222
58	Generation of Pure Bulk Valley Current in Graphene. Physical Review Letters, 2013, 110, 046601.	2.9	221
59	Unconventional Quasiparticle Lifetime in Graphite. Physical Review Letters, 1996, 77, 3589-3592.	2.9	210
60	Electronic properties of a biased graphene bilayer. Journal of Physics Condensed Matter, 2010, 22, 175503.	0.7	209
61	Coulomb interactions and ferromagnetism in pure and doped graphene. Physical Review B, 2005, 72, .	1.1	207
62	Electron-electron interactions and the phase diagram of a graphene bilayer. Physical Review B, 2006, 73, .	1.1	200
63	Strong Modulation of Optical Properties in Black Phosphorus through Strain-Engineered Rippling. Nano Letters, 2016, 16, 2931-2937.	4.5	199
64	Drawing conclusions from graphene. Physics World, 2006, 19, 33-37.	0.0	197
65	Fields radiated by a nanoemitter in a graphene sheet. Physical Review B, 2011, 84, .	1.1	188
66	Non-Abelian Gauge Potentials in Graphene Bilayers. Physical Review Letters, 2012, 108, 216802.	2.9	187
67	Diffusion and Localization of a Particle in a Periodic Potential Coupled to a Dissipative Environment. Physical Review Letters, 1985, 54, 263-266.	2.9	186
68	Electronic properties of single-layer and multilayer transition metal dichalcogenides $\langle i \rangle MX_2 \langle /i \rangle$ ($\langle i \rangle M \langle /i \rangle = \text{Mo, W}$ and $\langle i \rangle X \langle /i \rangle = \text{S, Se}$). Annalen Der Physik, 2014, 526, 347-357.	0.9	186
69	Continuum approximation to fullerene molecules. Physical Review Letters, 1992, 69, 172-175.	2.9	180
70	Dirac-point engineering and topological phase transitions in honeycomb optical lattices. New Journal of Physics, 2008, 10, 103027.	1.2	174
71	Conductance of p-n-p Graphene Structures with Air-Bridge Top Gates. Nano Letters, 2008, 8, 1995-1999.	4.5	168
72	Electron-phonon coupling and Raman spectroscopy in graphene. Physical Review B, 2007, 75, .	1.1	167

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73	Spin-flip scattering in magnetic junctions. <i>Physical Review B</i> , 1998, 58, 9212-9216.	1.1	165
74	Edge and surface states in the quantum Hall effect in graphene. <i>Physical Review B</i> , 2006, 73, .	1.1	164
75	Bosonization of a two-level system with dissipation. <i>Physical Review B</i> , 1985, 32, 4410-4418.	1.1	157
76	Robustness of edge states in graphene quantum dots. <i>Physical Review B</i> , 2010, 82, .	1.1	154
77	Pseudomagnetic Fields and Ballistic Transport in a Suspended Graphene Sheet. <i>Physical Review Letters</i> , 2008, 101, 226804.	2.9	152
78	Orthogonality catastrophe and Kondo effect in graphene. <i>Physical Review B</i> , 2007, 76, .	1.1	148
79	Charge distribution and screening in layered graphene systems. <i>Physical Review B</i> , 2007, 75, .	1.1	145
80	The Fractal Nature of Fracture. <i>Europhysics Letters</i> , 1987, 3, 871-877.	0.7	144
81	Image potential states in graphene. <i>Physical Review B</i> , 2009, 80, .	1.1	143
82	Effect of cluster formation on graphene mobility. <i>Physical Review B</i> , 2010, 81, .	1.1	143
83	Electric Field Screening in Atomically Thin Layers of MoS ₂ : the Role of Interlayer Coupling. <i>Advanced Materials</i> , 2013, 25, 899-903.	11.1	143
84	Quantum Spin Hall Effect in Two-Dimensional Crystals of Transition-Metal Dichalcogenides. <i>Physical Review Letters</i> , 2014, 113, 077201.	2.9	139
85	Theory of strain in single-layer transition metal dichalcogenides. <i>Physical Review B</i> , 2015, 92, .	1.1	138
86	Dirac fermion confinement in graphene. <i>Physical Review B</i> , 2006, 73, .	1.1	137
87	Resonant plasmonic effects in periodic graphene antidot arrays. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	137
88	Localized States at Zigzag Edges of Bilayer Graphene. <i>Physical Review Letters</i> , 2008, 100, 026802.	2.9	136
89	Charge-polarized interfacial superlattices in marginally twisted hexagonal boron nitride. <i>Nature Communications</i> , 2021, 12, 347.	5.8	132
90	Gaps tunable by electrostatic gates in strained graphene. <i>Physical Review B</i> , 2011, 83, .	1.1	131

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91	Holes and magnetic textures in the two-dimensional Hubbard model. <i>Physical Review B</i> , 1991, 43, 6099-6108.	1.1	129
92	Tunable Phonon-Induced Transparency in Bilayer Graphene Nanoribbons. <i>Nano Letters</i> , 2014, 14, 4581-4586.	4.5	129
93	Ferromagnetism in the Two Dimensional t^2 Hubbard Model at the Van Hove Density. <i>Physical Review Letters</i> , 1997, 78, 1343-1346.	2.9	127
94	Spatial variation of a giant spin-orbit effect induces electron confinement in graphene on Pb islands. <i>Nature Physics</i> , 2015, 11, 43-47.	6.5	126
95	Transmission through a biased graphene bilayer barrier. <i>Physical Review B</i> , 2007, 76, .	1.1	125
96	Electrostatic interactions between graphene layers and their environment. <i>Physical Review B</i> , 2008, 77, .	1.1	125
97	Surface electronic structure and magnetic properties of doped manganites. <i>Physical Review B</i> , 1999, 60, 6698-6704.	1.1	124
98	Theory of 2D crystals: graphene and beyond. <i>Chemical Society Reviews</i> , 2017, 46, 4387-4399.	18.7	121
99	Continuum models for twisted bilayer graphene: Effect of lattice deformation and hopping parameters. <i>Physical Review B</i> , 2019, 99, .	1.1	116
100	Elliot-Yafet Mechanism in Graphene. <i>Physical Review Letters</i> , 2012, 108, 206808.	2.9	114
101	Electrically Controllable Magnetism in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2017, 119, 107201.	2.9	114
102	Topologically protected zero modes in twisted bilayer graphene. <i>Physical Review B</i> , 2011, 84, .	1.1	112
103	Scattering of electrons in graphene by clusters of impurities. <i>Physical Review B</i> , 2009, 79, .	1.1	111
104	Effect of point defects on the optical and transport properties of MoS_2 . <i>Physical Review B</i> , 2014, 90, .	1.1	110
105	Strained Bubbles in van der Waals Heterostructures as Local Emitters of Photoluminescence with Adjustable Wavelength. <i>ACS Photonics</i> , 2019, 6, 516-524.	3.2	110
106	Scaling relations in the equation of state, thermal expansion, and melting of metals. <i>Applied Physics Letters</i> , 1984, 44, 53-55.	1.5	109
107	Superconductivity in Ca-doped graphene laminates. <i>Scientific Reports</i> , 2016, 6, 23254.	1.6	109
108	Hybrid Monte Carlo algorithm for the double exchange model. <i>Nuclear Physics B</i> , 2001, 596, 587-610.	0.9	106

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109	Coherent Charge Oscillations in Tunnel Junctions. Europhysics Letters, 1986, 1, 585-593.	0.7	103
110	Electron-hole puddles in the absence of charged impurities. Physical Review B, 2012, 85, .	1.1	103
111	Some aspects of the phase diagram of double-exchange systems. Physical Review B, 1998, 58, 9150-9155.	1.1	102
112	Assembly of iron phthalocyanine and pentacene molecules on a graphene monolayer grown on Ru(0001). Physical Review B, 2011, 84, .	1.1	102
113	Random Strain Fluctuations as Dominant Disorder Source for High-Quality On-Substrate Graphene Devices. Physical Review X, 2014, 4, .	2.8	102
114	Bending modes, anharmonic effects, and thermal expansion coefficient in single-layer and multilayer graphene. Physical Review B, 2012, 86, .	1.1	99
115	Spontaneous strains and gap in graphene on boron nitride. Physical Review B, 2014, 90, .	1.1	96
116	Friction and Particle-Hole Pairs. Physical Review Letters, 1984, 53, 1268-1271.	2.9	95
117	Flexural mode of graphene on a substrate. Physical Review B, 2013, 88, .	1.1	95
118	Coupling Light into Graphene Plasmons through Surface Acoustic Waves. Physical Review Letters, 2013, 111, 237405.	2.9	95
119	Integer Quantum Hall Effect in Trilayer Graphene. Physical Review Letters, 2011, 107, 126806.	2.9	94
120	Band structure and insulating states driven by Coulomb interaction in twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	94
121	Infrared Nanophotonics Based on Graphene Plasmonics. ACS Photonics, 2017, 4, 2989-2999.	3.2	92
122	Strain engineering in graphene. Solid State Communications, 2012, 152, 1437-1441.	0.9	89
123	Low-Temperature Behavior of a Tunneling Atom Interacting with a Degenerate Electron Gas. Physical Review Letters, 1986, 57, 2337-2340.	2.9	88
124	Quantum capacitance measurements of electron-hole asymmetry and next-nearest-neighbor hopping in graphene. Physical Review B, 2013, 88, .	1.1	88
125	Piezoelectricity in Monolayer Hexagonal Boron Nitride. Advanced Materials, 2020, 32, e1905504.	11.1	87
126	Temperature-dependent resistivity in bilayer graphene due to flexural phonons. Physical Review B, 2011, 83, .	1.1	86

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127	Momentum dependence of spin-orbit interaction effects in single-layer and multi-layer transition metal dichalcogenides. 2D Materials, 2014, 1, 034003.	2.0	85
128	Electron-Induced Rippling in Graphene. Physical Review Letters, 2011, 106, 045502.	2.9	84
129	Intrinsic atomic-scale modulations of the superconducting gap of $2H$. Physical Review B, 2008, 77, .	1.1	82
130	Spin-orbit coupling in a graphene bilayer and in graphite. New Journal of Physics, 2010, 12, 083063.	1.2	82
131	Disorder and interaction effects in two-dimensional graphene sheets. Physical Review B, 2005, 71, .	1.1	81
132	A simple two-dimensional model for crack propagation. Journal of Physics A, 1989, 22, 1393-1403.	1.6	80
133	Gauge fields, ripples and wrinkles in graphene layers. Solid State Communications, 2009, 149, 1140-1143.	0.9	80
134	Interactions and superconductivity in heavily doped MoS ₂ . Physical Review B, 2013, 88, .	1.1	80
135	Electron-electron interactions and charging effects in graphene quantum dots. Physical Review B, 2008, 77, .	1.1	79
136	Electronic band structure and pinning of Fermi energy to Van Hove singularities in twisted bilayer graphene: A self-consistent approach. Physical Review B, 2019, 100, .	1.1	79
137	Coulomb blockade versus intergrain resistance in colossal magnetoresistive manganite granular films. Physical Review B, 2000, 61, 9549-9552.	1.1	78
138	Electron Pumping in Graphene Mechanical Resonators. Nano Letters, 2012, 12, 850-854.	4.5	77
139	Surface dissipation in nanoelectromechanical systems: Unified description with the standard tunneling model and effects of metallic electrodes. Physical Review B, 2008, 77, .	1.1	74
140	Localization and topological disorder. Physical Review B, 1987, 35, 979-986.	1.1	72
141	Dynamics and phase transitions of Josephson junctions with dissipation due to quasiparticle tunneling. Journal of Low Temperature Physics, 1987, 69, 219-243.	0.6	72
142	Majorana Zero Modes in Graphene. Physical Review X, 2015, 5, .	2.8	71
143	Two-body problem in graphene. Physical Review B, 2010, 81, .	1.1	70
144	Fermi liquid theory of a Fermi ring. Physical Review B, 2007, 75, .	1.1	69

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145	Topological currents in black phosphorus with broken inversion symmetry. Physical Review B, 2015, 92, .	1.1	69
146	Giant oscillations in a triangular network of one-dimensional states in marginally twisted graphene. Nature Communications, 2019, 10, 4008.	5.8	67
147	Phase diagram and influence of defects in the double perovskites. Physical Review B, 2003, 67, .	1.1	66
148	Stacking Boundaries and Transport in Bilayer Graphene. Nano Letters, 2014, 14, 2052-2057.	4.5	66
149	Charge states for H and He moving in an electron gas. Physical Review B, 1982, 25, 6109-6125.	1.1	63
150	Gauge fields and interferometry in folded graphene. Physical Review B, 2011, 83, .	1.1	62
151	Dynamics of a particle in an external potential interacting with a dissipative environment. Physical Review B, 1985, 32, 7518-7523.	1.1	60
152	Electronic properties of stacks of graphene layers. Solid State Communications, 2007, 143, 116-122.	0.9	59
153	Edge modes in zigzag and armchair ribbons of monolayer MoS ₂ . Journal of Physics Condensed Matter, 2016, 28, 495001.	0.7	58
154	Competition between spontaneous symmetry breaking and single-particle gaps in trilayer graphene. Nature Communications, 2014, 5, 5656.	5.8	57
155	Synthetic electric fields and phonon damping in carbon nanotubes and graphene. Physical Review B, 2009, 80, .	1.1	56
156	Novel Midinfrared Plasmonic Properties of Bilayer Graphene. Physical Review Letters, 2014, 112, 116801.	2.9	56
157	Pseudodiffusive magnetotransport in graphene. Physical Review B, 2007, 75, .	1.1	55
158	Dissipation in graphene and nanotube resonators. Physical Review B, 2007, 76, .	1.1	55
159	Models of Electron Transport in Single Layer Graphene. Journal of Low Temperature Physics, 2008, 153, 359-373.	0.6	55
160	Pinning of a two-dimensional membrane on top of a patterned substrate: The case of graphene. Physical Review B, 2011, 83, .	1.1	55
161	Geometrical and topological aspects of graphene and related materials. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 383001.	0.7	55
162	Dynamics of polyacetylene chains. Physical Review B, 1984, 30, 1884-1890.	1.1	54

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163	Renormalization group analysis of electrons near a van Hove singularity. Europhysics Letters, 1996, 34, 711-716.	0.7	54
164	Twists and the Electronic Structure of Graphitic Materials. Nano Letters, 2019, 19, 8683-8689.	4.5	52
165	Coulomb interaction, phonons, and superconductivity in twisted bilayer graphene. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	52
166	Schottky barrier formation. I. Abrupt metal-semiconductor junctions. Journal of Physics C: Solid State Physics, 1983, 16, 6499-6512.	1.5	51
167	Interactions and Magnetism in Graphene Boundary States. Physical Review Letters, 2008, 101, 036803.	2.9	51
168	Band structure and gaps of triangular graphene superlattices. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 5391-5402.	1.6	51
169	Two-state system coupled to phonons: A renormalization-group analysis of the transition. Physical Review B, 1984, 30, 464-466.	1.1	50
170	Electronic structure of 2 <i>H</i> -NbSe ₂ single-layers in the CDW state. 2D Materials, 2016, 3, 035028.	2.0	50
171	Josephson coupling through a quantum dot. Physical Review B, 2001, 64, .	1.1	49
172	Transport through evanescent waves in ballistic graphene quantum dots. Physical Review B, 2008, 78, .	1.1	49
173	Electronic structure of spontaneously strained graphene on hexagonal boron nitride. Physical Review B, 2014, 90, .	1.1	49
174	Piezoelectricity and valley chern number in inhomogeneous hexagonal 2D crystals. Npj 2D Materials and Applications, 2018, 2, .	3.9	49
175	Charge States for Protons Moving in an Electron Gas. Physical Review Letters, 1981, 47, 604-607.	2.9	48
176	The influence of strain on the elastic constants of graphene. Carbon, 2017, 124, 42-48.	5.4	48
177	Electronic properties of two-dimensional carbon. Annals of Physics, 2006, 321, 1559-1567.	1.0	46
178	Transport regimes in surface disordered graphene sheets. Physical Review B, 2007, 75, .	1.1	46
179	Magneto-electronic properties of multilayer black phosphorus. Physical Review B, 2015, 92, .	1.1	45
180	Effect of electron-electron interaction on the Fermi surface topology of doped graphene. Physical Review B, 2008, 77, .	1.1	44

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181	Spin relaxation times in disordered graphene. <i>European Physical Journal: Special Topics</i> , 2007, 148, 177-181.	1.2	43
182	Variational approach to the excitonic phase transition in graphene. <i>Physical Review B</i> , 2010, 82, .	1.1	43
183	Effect of external conditions on the structure of scrolled graphene edges. <i>Physical Review B</i> , 2010, 81, .	1.1	43
184	Scattering by flexural phonons in suspended graphene under back gate induced strain. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 963-966.	1.3	42
185	Phase Diagram of Diluted Magnetic Semiconductor Quantum Wells. <i>Physical Review Letters</i> , 2000, 85, 2384-2387.	2.9	41
186	Variational mean-field approach to the double-exchange model. <i>Physical Review B</i> , 2001, 63, .	1.1	41
187	Dissipation-Driven Quantum Phase Transitions in a Tomonaga-Luttinger Liquid Electrostatically Coupled to a Metallic Gate. <i>Physical Review Letters</i> , 2006, 97, 076401.	2.9	41
188	Collapse of the wave packet and chaos in a model with classical and quantum degrees of freedom. <i>Physical Review A</i> , 1992, 45, 7718-7728.	1.0	40
189	Point-contact spectroscopy on URu ₂ Si ₂ . <i>Physical Review B</i> , 1997, 55, 14318-14322.	1.1	40
190	Renormalization group approach to the normal state of copper-oxide superconductors. <i>Nuclear Physics B</i> , 1997, 485, 694-724.	0.9	40
191	Interplay between double-exchange, superexchange, and Lifshitz localization in doped manganites. <i>Physical Review B</i> , 2002, 66, .	1.1	40
192	Propagating, evanescent, and localized states in carbon nanotube-graphene junctions. <i>Physical Review B</i> , 2009, 79, .	1.1	40
193	Holes and Magnetic Textures in the Two-Dimensional Hubbard Model. <i>Europhysics Letters</i> , 1991, 14, 157-163.	0.7	39
194	Monte Carlo determination of the phase diagram of the double-exchange model. <i>Physical Review B</i> , 2001, 64, .	1.1	39
195	Thermodynamics of quantum crystalline membranes. <i>Physical Review B</i> , 2014, 89, .	1.1	39
196	Dimensional reduction, quantum Hall effect and layer parity in graphite films. <i>Nature Physics</i> , 2019, 15, 437-442.	6.5	39
197	Dynamics of simple dissipative systems. <i>Physical Review B</i> , 1985, 32, 4486-4491.	1.1	38
198	Superconducting nanostructures fabricated with the scanning tunnelling microscope. <i>Journal of Physics Condensed Matter</i> , 2004, 16, R1151-R1182.	0.7	38

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199	Stacking faults, bound states, and quantum Hall plateaus in crystalline graphite. <i>Physical Review B</i> , 2008, 78, .	1.1	38
200	Spin-valley relaxation and quantum transport regimes in two-dimensional transition-metal dichalcogenides. <i>Physical Review B</i> , 2014, 90, .	1.1	38
201	Superconducting, Ferromagnetic and Antiferromagnetic Phases in the t - t' -Hubbard Model. <i>Journal of the Physical Society of Japan</i> , 1998, 67, 1868-1871.	0.7	37
202	Magnetic moments and Kondo effect near vacancies and resonant scatterers in graphene. <i>Physical Review B</i> , 2011, 83, .	1.1	37
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