

Vladimir Fal ko

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197
papers

25,967
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58
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160
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218
ext. papers

29,346
ext. citations

8.5
avg, IF

7.17
L-index

#	Paper	IF	Citations
197	A roadmap for graphene. <i>Nature</i> , 2012 , 490, 192-200	50.4	6640
196	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
195	Unconventional quantum Hall effect and Berry phase of 2D bilayer graphene. <i>Nature Physics</i> , 2006 , 2, 177-180	16.2	1621
194	Landau-level degeneracy and quantum Hall effect in a graphite bilayer. <i>Physical Review Letters</i> , 2006 , 96, 086805	7.4	1587
193	Cloning of Dirac fermions in graphene superlattices. <i>Nature</i> , 2013 , 497, 594-7	50.4	884
192	The focusing of electron flow and a Veselago lens in graphene p-n junctions. <i>Science</i> , 2007 , 315, 1252-5	33.3	867
191	Electrically tunable band gap in silicene. <i>Physical Review B</i> , 2012 , 85,	3.3	835
190	Weak-localization magnetoresistance and valley symmetry in graphene. <i>Physical Review Letters</i> , 2006 , 97, 146805	7.4	758
189	Selective transmission of Dirac electrons and ballistic magnetoresistance of n-p junctions in graphene. <i>Physical Review B</i> , 2006 , 74,	3.3	626
188	k-p theory for two-dimensional transition metal dichalcogenide semiconductors. <i>2D Materials</i> , 2015 , 2, 022001	5.9	456
187	Tunable metal-insulator transition in double-layer graphene heterostructures. <i>Nature Physics</i> , 2011 , 7, 958-961	16.2	417
186	Resonantly hybridized excitons in moiré superlattices in van der Waals heterostructures. <i>Nature</i> , 2019 , 567, 81-86	50.4	367
185	Twist-controlled resonant tunnelling in graphene/boron nitride/graphene heterostructures. <i>Nature Nanotechnology</i> , 2014 , 9, 808-13	28.7	341
184	Towards a quantum resistance standard based on epitaxial graphene. <i>Nature Nanotechnology</i> , 2010 , 5, 186-9	28.7	338
183	Optical and magneto-optical far-infrared properties of bilayer graphene. <i>Physical Review B</i> , 2007 , 75,	3.3	299
182	High-sensitivity photodetectors based on multilayer GaTe flakes. <i>ACS Nano</i> , 2014 , 8, 752-60	16.7	257
181	Friedel oscillations, impurity scattering, and temperature dependence of resistivity in graphene. <i>Physical Review Letters</i> , 2006 , 97, 226801	7.4	256

180	Visibility of graphene flakes on a dielectric substrate. <i>Applied Physics Letters</i> , 2007 , 91, 063125	3.4	230
179	Interaction-driven spectrum reconstruction in bilayer graphene. <i>Science</i> , 2011 , 333, 860-3	33.3	226
178	Electrons and phonons in single layers of hexagonal indium chalcogenides from ab initio calculations. <i>Physical Review B</i> , 2014 , 89,	3.3	204
177	Generic miniband structure of graphene on a hexagonal substrate. <i>Physical Review B</i> , 2013 , 87,	3.3	198
176	WSe ₂ Light-Emitting Tunneling Transistors with Enhanced Brightness at Room Temperature. <i>Nano Letters</i> , 2015 , 15, 8223-8	11.5	183
175	Adsorbate-limited conductivity of graphene. <i>Physical Review Letters</i> , 2008 , 101, 196803	7.4	177
174	Electrons in bilayer graphene. <i>Solid State Communications</i> , 2007 , 143, 110-115	1.6	175
173	Spontaneous symmetry breaking and Lifshitz transition in bilayer graphene. <i>Physical Review B</i> , 2010 , 82,	3.3	147
172	Band structure and optical transitions in atomic layers of hexagonal gallium chalcogenides. <i>Physical Review B</i> , 2013 , 87,	3.3	145
171	Quantum oscillations of the critical current and high-field superconducting proximity in ballistic graphene. <i>Nature Physics</i> , 2016 , 12, 318-322	16.2	144
170	Hierarchy of Hofstadter states and replica quantum Hall ferromagnetism in graphene superlattices. <i>Nature Physics</i> , 2014 , 10, 525-529	16.2	137
169	Quantum Monte Carlo calculation of the binding energy of bilayer graphene. <i>Physical Review Letters</i> , 2015 , 115, 115501	7.4	132
168	Charge transfer between epitaxial graphene and silicon carbide. <i>Applied Physics Letters</i> , 2010 , 97, 112109	9.4	125
167	Characterization of graphene through anisotropy of constant-energy maps in angle-resolved photoemission. <i>Physical Review B</i> , 2008 , 77,	3.3	125
166	Influence of Trigonal Warping on Interference Effects in Bilayer Graphene. <i>Physical Review Letters</i> , 2007 , 98,	7.4	123
165	Random resistor network model of minimal conductivity in graphene. <i>Physical Review Letters</i> , 2007 , 99, 176801	7.4	118
164	Nuclear spin switch in semiconductor quantum dots. <i>Physical Review Letters</i> , 2007 , 98, 026806	7.4	117
163	The direct-to-indirect band gap crossover in two-dimensional van der Waals Indium Selenide crystals. <i>Scientific Reports</i> , 2016 , 6, 39619	4.9	114

162	Atomic reconstruction in twisted bilayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2020 , 15, 592-597	28.7	110
161	Non-volatile photochemical gating of an epitaxial graphene/polymer heterostructure. <i>Advanced Materials</i> , 2011 , 23, 878-82	24	106
160	Gigahertz quantized charge pumping in graphene quantum dots. <i>Nature Nanotechnology</i> , 2013 , 8, 417-420	28.7	99
159	Statistics of prelocalized states in disordered conductors. <i>Physical Review B</i> , 1995 , 52, 17413-17429	3.3	96
158	Tunable graphene system with two decoupled monolayers. <i>Applied Physics Letters</i> , 2008 , 93, 172108	3.4	93
157	z - τ symmetry of spin-orbit coupling and weak localization in graphene. <i>Physical Review Letters</i> , 2012 , 108, 166606	7.4	91
156	Strained bilayer graphene: Band structure topology and Landau level spectrum. <i>Physical Review B</i> , 2011 , 84,	3.3	90
155	Ballistic miniband conduction in a graphene superlattice. <i>Science</i> , 2016 , 353, 1526-1529	33.3	87
154	Anomalously strong pinning of the filling factor $\nu=2$ in epitaxial graphene. <i>Physical Review B</i> , 2011 , 83,	3.3	86
153	High-temperature quantum oscillations caused by recurring Bloch states in graphene superlattices. <i>Science</i> , 2017 , 357, 181-184	33.3	83
152	The low energy electronic band structure of bilayer graphene. <i>European Physical Journal: Special Topics</i> , 2007 , 148, 91-103	2.3	82
151	Observation of even denominator fractional quantum Hall effect in suspended bilayer graphene. <i>Nano Letters</i> , 2014 , 14, 2135-9	11.5	81
150	Competing nematic, antiferromagnetic, and spin-flux orders in the ground state of bilayer graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	80
149	Weak localization in monolayer and bilayer graphene. <i>European Physical Journal: Special Topics</i> , 2007 , 148, 39-54	2.3	79
148	Filling-factor-dependent magnetophonon resonance in graphene. <i>Physical Review Letters</i> , 2007 , 99, 087402	4.2	79
147	Three-particle complexes in two-dimensional semiconductors. <i>Physical Review Letters</i> , 2015 , 114, 107401	7.4	72
146	Electronic and optical properties of two-dimensional InSe from a DFT-parametrized tight-binding model. <i>Physical Review B</i> , 2016 , 94,	3.3	72
145	Disordered Fermi liquid in epitaxial graphene from quantum transport measurements. <i>Physical Review Letters</i> , 2011 , 107, 166602	7.4	69

144	Design of van der Waals interfaces for broad-spectrum optoelectronics. <i>Nature Materials</i> , 2020 , 19, 299-304	3.4	64
143	Binding energies of trions and biexcitons in two-dimensional semiconductors from diffusion quantum Monte Carlo calculations. <i>Physical Review B</i> , 2017 , 95,	3.3	64
142	Tuning the valley and chiral quantum state of Dirac electrons in van der Waals heterostructures. <i>Science</i> , 2016 , 353, 575-9	33.3	63
141	Ordered states of adatoms on graphene. <i>Physical Review B</i> , 2009 , 80,	3.3	61
140	Gauge fields and interferometry in folded graphene. <i>Physical Review B</i> , 2011 , 83,	3.3	58
139	Quantum kinetic equation and universal conductance fluctuations in graphene. <i>Physical Review B</i> , 2008 , 77,	3.3	58
138	Quantum resistance metrology using graphene. <i>Reports on Progress in Physics</i> , 2013 , 76, 104501	14.4	57
137	Spin-orbit coupling and anisotropy of spin splitting in quantum dots. <i>Physical Review Letters</i> , 2005 , 94, 226404	7.4	56
136	Silicane and germanane: tight-binding and first-principles studies. <i>2D Materials</i> , 2014 , 1, 011005	5.9	54
135	Weak localization in graphene. <i>Solid State Communications</i> , 2007 , 143, 33-38	1.6	54
134	Precision comparison of the quantum Hall effect in graphene and gallium arsenide. <i>Metrologia</i> , 2012 , 49, 294-306	2.1	53
133	Anomalous sequence of quantum Hall liquids revealing a tunable Lifshitz transition in bilayer graphene. <i>Physical Review Letters</i> , 2014 , 113, 116602	7.4	52
132	Resonant tunnelling between the chiral Landau states of twisted graphene lattices. <i>Nature Physics</i> , 2015 , 11, 1057-1062	16.2	49
131	Thermally excited spin current and giant magnetothermopower in metals with embedded ferromagnetic nanoclusters. <i>Physical Review B</i> , 2006 , 74,	3.3	46
130	Broken mirror symmetry in excitonic response of reconstructed domains in twisted MoSe/MoSe bilayers. <i>Nature Nanotechnology</i> , 2020 , 15, 750-754	28.7	46
129	Nano-imaging of intersubband transitions in van der Waals quantum wells. <i>Nature Nanotechnology</i> , 2018 , 13, 1035-1041	28.7	45
128	Stacking Domains and Dislocation Networks in Marginally Twisted Bilayers of Transition Metal Dichalcogenides. <i>Physical Review Letters</i> , 2020 , 124, 206101	7.4	42
127	Heterostructures of bilayer graphene and h-BN: Interplay between misalignment, interlayer asymmetry, and trigonal warping. <i>Physical Review B</i> , 2013 , 88,	3.3	42

126	Signature of electronic excitations in the Raman spectrum of graphene. <i>Physical Review B</i> , 2009 , 80,	3.3	41
125	Indirect to Direct Gap Crossover in Two-Dimensional InSe Revealed by Angle-Resolved Photoemission Spectroscopy. <i>ACS Nano</i> , 2019 , 13, 2136-2142	16.7	40
124	Infrared-to-violet tunable optical activity in atomic films of GaSe, InSe, and their heterostructures. <i>2D Materials</i> , 2018 , 5, 041009	5.9	39
123	Anisotropy of spin splitting and spin relaxation in lateral quantum dots. <i>Physical Review Letters</i> , 2005 , 95, 076603	7.4	38
122	Evidence of the triangular lattice of crystallized electrons from time resolved luminescence. <i>Physical Review Letters</i> , 1994 , 72, 3594-3597	7.4	38
121	High-order fractal states in graphene superlattices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5135-5139	11.5	37
120	Giant oscillations in a triangular network of one-dimensional states in marginally twisted graphene. <i>Nature Communications</i> , 2019 , 10, 4008	17.4	36
119	Dirac edges of fractal magnetic minibands in graphene with hexagonal moiré superlattices. <i>Physical Review B</i> , 2014 , 89,	3.3	36
118	Quantum transport thermometry for electrons in graphene. <i>Physical Review Letters</i> , 2009 , 102, 066801	7.4	36
117	Acoustoelectric drag effect in the two-dimensional electron gas at strong magnetic field. <i>Physical Review B</i> , 1993 , 47, 9910-9912	3.3	36
116	Composite super-moiré lattices in double-aligned graphene heterostructures. <i>Science Advances</i> , 2019 , 5, eaay8897	14.3	36
115	Sublattice ordering in a dilute ensemble of monovalent adatoms on graphene. <i>Europhysics Letters</i> , 2010 , 89, 56003	1.6	35
114	Tunable van Hove singularities and correlated states in twisted monolayer/bilayer graphene. <i>Nature Physics</i> , 2021 , 17, 619-626	16.2	33
113	Upconverted electroluminescence via Auger scattering of interlayer excitons in van der Waals heterostructures. <i>Nature Communications</i> , 2019 , 10, 2335	17.4	32
112	Subgap transport in ferromagnet-superconductor junctions due to magnon-assisted Andreev reflection. <i>Physical Review B</i> , 2001 , 65,	3.3	31
111	Statistics of fluctuations of wave functions of chaotic electrons in a quantum dot in an arbitrary magnetic field. <i>Physical Review B</i> , 1994 , 50, 11267-11270	3.3	31
110	Cyclotron and electric-dipole spin resonances in a two-dimensional electron gas in the vicinity of the crossing of spin-split Landau levels. <i>Physical Review B</i> , 1992 , 46, 4320-4323	3.3	31
109	Electronic phase separation in multilayer rhombohedral graphite. <i>Nature</i> , 2020 , 584, 210-214	50.4	31

108	Spin-orbit coupling assisted by flexural phonons in graphene. <i>Physical Review B</i> , 2012 , 86,	3.3	29
107	Spectroscopy of local density of states fluctuations in a disordered conductor. <i>Europhysics Letters</i> , 1996 , 36, 61-66	1.6	29
106	Transport signatures of pseudomagnetic Landau levels in strained graphene ribbons. <i>Physical Review Letters</i> , 2013 , 110, 266801	7.4	28
105	Quantum Hall effect and quantum point contact in bilayer-patched epitaxial graphene. <i>Nano Letters</i> , 2014 , 14, 3369-73	11.5	27
104	Spin memory and spin-lattice relaxation in two-dimensional hexagonal crystals. <i>Physical Review B</i> , 2013 , 88,	3.3	27
103	Magnetic field influence on the proximity effect in semiconductor-superconductor hybrid structures and their thermal conductance. <i>Physical Review B</i> , 2004 , 69,	3.3	27
102	Surface acoustic-wave-induced magnetoresistance oscillations in a two-dimensional electron gas. <i>Physical Review Letters</i> , 2004 , 93, 036804	7.4	27
101	Auger recombination of dark excitons in WS ₂ and WSe ₂ monolayers. <i>2D Materials</i> , 2016 , 3, 035011	5.9	27
100	Tunable Valley Splitting due to Topological Orbital Magnetic Moment in Bilayer Graphene Quantum Point Contacts. <i>Physical Review Letters</i> , 2020 , 124, 126802	7.4	26
99	Moiré minibands in graphene heterostructures with almost commensurate 3B hexagonal crystals. <i>Physical Review B</i> , 2013 , 88,	3.3	26
98	Measurement of filling-factor-dependent magnetophonon resonances in graphene using Raman spectroscopy. <i>Physical Review Letters</i> , 2013 , 110, 227402	7.4	26
97	Spectral features due to inter-Landau-level transitions in the Raman spectrum of bilayer graphene. <i>Physical Review B</i> , 2010 , 82,	3.3	26
96	Excess resistivity in graphene superlattices caused by umklapp electron-electron scattering. <i>Nature Physics</i> , 2019 , 15, 32-36	16.2	25
95	Tunnel spectroscopy of localised electronic states in hexagonal boron nitride. <i>Communications Physics</i> , 2018 , 1,	5.4	25
94	Fast Relaxation of Photo-Excited Carriers in 2-D Transition Metal Dichalcogenides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 168-172	3.8	24
93	Long nuclear spin polarization decay times controlled by optical pumping in individual quantum dots. <i>Physical Review B</i> , 2008 , 77,	3.3	23
92	Dimensional reduction, quantum Hall effect and layer parity in graphite films. <i>Nature Physics</i> , 2019 , 15, 437-442	16.2	23
91	Topologically Nontrivial Valley States in Bilayer Graphene Quantum Point Contacts. <i>Physical Review Letters</i> , 2018 , 121, 257702	7.4	23

90	Ultra-thin van der Waals crystals as semiconductor quantum wells. <i>Nature Communications</i> , 2020 , 11, 125	17.4	22
89	On spectral properties of bilayer graphene: the effect of an SiC substrate and infrared magneto-spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 344206	1.8	22
88	Engineering and metrology of epitaxial graphene. <i>Solid State Communications</i> , 2011 , 151, 1094-1099	1.6	21
87	Orbital effects of in-plane magnetic fields probed by mesoscopic conductance fluctuations. <i>Physical Review B</i> , 2004 , 69,	3.3	21
86	Orbital effect of an in-plane magnetic field on quantum transport in chaotic lateral dots. <i>Physical Review B</i> , 2002 , 65,	3.3	21
85	Intra-Landau-level magnetoexcitons and the transition between quantum Hall states in undoped bilayer graphene. <i>Physical Review B</i> , 2011 , 83,	3.3	20
84	Crossing of cyclotron and spin resonances in two-dimensional Coulomb gas. <i>Physical Review Letters</i> , 1993 , 71, 141-144	7.4	20
83	Influence of minivalleys and Berry curvature on electrostatically induced quantum wires in gapped bilayer graphene. <i>Physical Review B</i> , 2018 , 98,	3.3	20
82	Evidence for spin memory in the electron phase coherence in graphene. <i>Physical Review B</i> , 2012 , 86,	3.3	19
81	Degeneracy breaking and intervalley scattering due to short-ranged impurities in finite single-wall carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	19
80	Energy dependence of quasiparticle relaxation in a disordered fermi liquid. <i>Physical Review Letters</i> , 2001 , 86, 276-9	7.4	19
79	Multispectral Graphene-Based Electro-Optical Surfaces with Reversible Tunability from Visible to Microwave Wavelengths. <i>Nature Photonics</i> , 2021 , 15, 493-498	33.9	19
78	Tunable Fermi surface topology and Lifshitz transition in bilayer graphene. <i>Synthetic Metals</i> , 2015 , 210, 19-31	3.6	18
77	Control of electron-electron interaction in graphene by proximity screenings. <i>Nature Communications</i> , 2020 , 11, 2339	17.4	17
76	Twist-controlled resonant tunnelling between monolayer and bilayer graphene. <i>Applied Physics Letters</i> , 2015 , 107, 203506	3.4	17
75	Manifestation of LO Π A phonons in Raman scattering in graphene. <i>Solid State Communications</i> , 2011 , 151, 1071-1074	1.6	17
74	Correlation-function spectroscopy of inelastic lifetime in heavily doped GaAs heterostructures. <i>Physical Review B</i> , 2001 , 64,	3.3	17
73	Conductance fluctuations in systems with random-magnetic-field scattering. <i>Physical Review B</i> , 1994 , 50, 17406-17410	3.3	17

72	Moiré miniband features in the angle-resolved photoemission spectra of graphene/hBN heterostructures. <i>Physical Review B</i> , 2016 , 93,	3.3	15
71	Statistics of wave functions in mesoscopic systems. <i>Journal of Mathematical Physics</i> , 1996 , 37, 4935-4967.	1.2	15
70	Inter-Landau-level relaxation in two-dimensional electron gases at high magnetic fields. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 3945-3950	1.8	15
69	Quartet states in two-electron quantum dots in bilayer graphene. <i>Physical Review B</i> , 2020 , 101,	3.3	14
68	Influence of Impurity Spin Dynamics on Quantum Transport in Epitaxial Graphene. <i>Physical Review Letters</i> , 2015 , 115, 106602	7.4	14
67	Quantum and classical surface-acoustic-wave-induced magnetoresistance oscillations in a two-dimensional electron gas. <i>Physical Review B</i> , 2005 , 71,	3.3	14
66	The Aharonov-Bohm effect in a mesoscopic ring of diluted magnetic alloy. <i>Journal of Physics Condensed Matter</i> , 1992 , 4, 3943-3954	1.8	14
65	Hybrid k_p tight-binding model for intersubband optics in atomically thin InSe films. <i>Physical Review B</i> , 2018 , 97,	3.3	13
64	Nuclear spin pumping under resonant optical excitation in a quantum dot. <i>Applied Physics Letters</i> , 2008 , 93, 073113	3.4	13
63	Graphene: Emerging matter in two dimensions. <i>European Physical Journal: Special Topics</i> , 2007 , 148, 1-4	2.3	13
62	Tunable Valley Splitting and Bipolar Operation in Graphene Quantum Dots. <i>Nano Letters</i> , 2021 , 21, 10681-1073	10.73	13
61	Piezoelectric networks and ferroelectric domains in twistrionic superlattices in WS ₂ /MoS ₂ and WSe ₂ /MoSe ₂ bilayers. <i>2D Materials</i> , 2021 , 8, 025030	5.9	13
60	Electromechanical sensing of substrate charge hidden under atomic 2D crystals. <i>Nano Letters</i> , 2014 , 14, 3400-4	11.5	12
59	Landau levels in deformed bilayer graphene at low magnetic fields. <i>Solid State Communications</i> , 2011 , 151, 1088-1093	1.6	12
58	Transport anomaly at the ordering transition for adatoms on graphene. <i>Physical Review B</i> , 2011 , 83,	3.3	12
57	Films of rhombohedral graphite as two-dimensional topological semimetals. <i>Communications Physics</i> , 2019 , 2,	5.4	12
56	Graphitic platform for self-catalysed InAs nanowires growth by molecular beam epitaxy. <i>Nanoscale Research Letters</i> , 2014 , 9, 321	5	11
55	Detection of the electron spin resonance of two-dimensional electrons at large wave vectors. <i>Physical Review Letters</i> , 2006 , 96, 126807	7.4	11

54	Magnetothermopower and magnon-assisted transport in ferromagnetic tunnel junctions. <i>Applied Physics Letters</i> , 2002 , 81, 3609-3611	3.4	11
53	Electrostatics of inter-Landau-level diodes. <i>Physical Review B</i> , 1994 , 50, 4571-4576	3.3	11
52	Electron-phonon drag effect at 2D Landau levels. <i>Journal of Physics Condensed Matter</i> , 1992 , 4, 9201-9212	11	11
51	Longitudinal magnetoresistance of ultrathin films and two-dimensional electron layers. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 3797-3802	1.8	11
50	Raman spectroscopy of GaSe and InSe post-transition metal chalcogenides layers. <i>Faraday Discussions</i> , 2021 , 227, 163-170	3.6	11
49	Magnetoresistance in Co-hBN-NiFe Tunnel Junctions Enhanced by Resonant Tunneling through Single Defects in Ultrathin hBN Barriers. <i>Nano Letters</i> , 2018 , 18, 6954-6960	11.5	11
48	Long-range ballistic transport of Brown-Zak fermions in graphene superlattices. <i>Nature Communications</i> , 2020 , 11, 5756	17.4	10
47	Ballistic electron channels including weakly protected topological states in delaminated bilayer graphene. <i>Physical Review B</i> , 2018 , 97,	3.3	9
46	Gapped bilayer graphene: a tunable strongly correlated band insulator. <i>Physical Review Letters</i> , 2012 , 109, 106801	7.4	9
45	Graphene-Driven Revolutions in ICT and Beyond. <i>Procedia Computer Science</i> , 2011 , 7, 30-33	1.6	9
44	Applicability of the ergodicity hypothesis to mesoscopic fluctuations. <i>Physical Review B</i> , 2003 , 68,	3.3	9
43	Magnon-assisted Andreev reflection in a ferromagnet-superconductor junction. <i>Europhysics Letters</i> , 2001 , 56, 583-589	1.6	9
42	Engineering of the topological magnetic moment of electrons in bilayer graphene using strain and electrical bias. <i>Physical Review B</i> , 2020 , 101,	3.3	8
41	Minibands in twisted bilayer graphene probed by magnetic focusing. <i>Science Advances</i> , 2020 , 6, eaay7838	4.3	8
40	Bistability of optically induced nuclear spin orientation in quantum dots. <i>Physical Review B</i> , 2007 , 76,	3.3	7
39	On resonant oscillations in current-voltage characteristics of double-barrier heterostructures. <i>Semiconductor Science and Technology</i> , 1991 , 6, 196-200	1.8	7
38	On the relaxation of nuclear polarization near 2D electron gas. <i>Journal of Physics Condensed Matter</i> , 1991 , 3, 5079-5083	1.8	7
37	0π transition in superconductor-ferromagnet-superconductor junctions with strongly spin-dependent scattering. <i>Physical Review B</i> , 2007 , 75,	3.3	6

36	Weak ferroelectric charge transfer in layer-asymmetric bilayers of 2D semiconductors. <i>Scientific Reports</i> , 2021 , 11, 13422	4.9	6
35	Out-of-Plane Dielectric Susceptibility of Graphene in Twistrionic and Bernal Bilayers. <i>Nano Letters</i> , 2021 , 21, 6678-6683	11.5	6
34	Weak localization correction to the ferromagnet-superconductor interface resistance. <i>Physical Review B</i> , 2000 , 62, 6015-6020	3.3	5
33	Intersubband relaxation of two-dimensional electrons in heterostructures. <i>Physical Review B</i> , 1993 , 47, 13585-13589	3.3	5
32	Kondo effect and spin-orbit coupling in graphene quantum dots. <i>Nature Communications</i> , 2021 , 12, 6004	17.4	5
31	Band energy landscapes in twisted homobilayers of transition metal dichalcogenides. <i>Applied Physics Letters</i> , 2021 , 118, 241602	3.4	5
30	Zero-energy modes and valley asymmetry in the Hofstadter spectrum of bilayer graphene van der Waals heterostructures with hBN. <i>Physical Review B</i> , 2016 , 94,	3.3	4
29	Spectroscopic Signatures of Electronic Excitations in Raman Scattering in Thin Films of Rhombohedral Graphite. <i>Nano Letters</i> , 2019 , 19, 6152-6156	11.5	4
28	Doping and theory: general discussion. <i>Faraday Discussions</i> , 2014 , 173, 233-56	3.6	4
27	Recombination kinetics of acceptor-bound holes in heterostructures: A probe of the local configuration of magnetically frozen electron insulators. <i>Physical Review B</i> , 1994 , 49, 2242-2245	3.3	4
26	Electron transport in dual-gated three-layer MoS ₂ . <i>Physical Review Research</i> , 2021 , 3,	3.9	4
25	Electronic Raman Scattering in Twistrionic Few-Layer Graphene. <i>Physical Review Letters</i> , 2020 , 125, 197401	14	3
24	Rabi oscillations of two-photon states in nonlinear optical resonators. <i>Physical Review A</i> , 2016 , 93,	2.6	3
23	Quantum statistics of four-wave mixing by a nonlinear resonant microcavity. <i>Physical Review A</i> , 2014 , 90,	2.6	3
22	QHE and far infra-red properties of bilayer graphene in a strong magnetic field. <i>European Physical Journal: Special Topics</i> , 2007 , 148, 105-115	2.3	3
21	ANDREEV REFLECTION AND SUBGAP TRANSPORT DUE TO ELECTRON-MAGNON INTERACTIONS IN FERROMAGNET-SUPERCONDUCTOR JUNCTIONS. <i>International Journal of Modern Physics B</i> , 2003 , 17, 5001-5005	1.1	3
20	Conductance fluctuations due to a bistable scatterer in a weakly connected conductor. <i>Physical Review B</i> , 1995 , 51, 5227-5232	3.3	3
19	The fine structure of cyclotron and spin resonances at their crossing: interplay between spin-orbit and Coulomb interactions. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 8725-8740	1.8	3

18	Phonon-emission-accompanied photoluminescence from a two-dimensional electron system at high magnetic field. <i>Physical Review B</i> , 1993 , 47, 3802-3805	3.3	3
17	Probing Two-Electron Multiplets in Bilayer Graphene Quantum Dots.. <i>Physical Review Letters</i> , 2021 , 127, 256802	7.4	3
16	Superposition of intra- and inter-layer excitons in twistrionic MoSe ₂ /WSe ₂ bilayers probed by resonant Raman scattering. <i>2D Materials</i> , 2021 , 8, 035009	5.9	3
15	Triplet pairing due to spin-orbit-assisted electron-phonon coupling. <i>Physical Review B</i> , 2006 , 74,	3.3	2
14	Ghost anti-crossings caused by interlayer umklapp hybridization of bands in 2D heterostructures. <i>2D Materials</i> , 2021 , 8, 015016	5.9	2
13	Tunable spin-orbit coupling in two-dimensional InSe. <i>Physical Review B</i> , 2021 , 104,	3.3	2
12	Multifaceted moiré superlattice physics in twisted WSe ₂ bilayers. <i>Physical Review B</i> , 2021 , 104,	3.3	2
11	Interfacial ferroelectricity in marginally twisted 2D semiconductors		2
10	Phase transitions in dipolar gases in optical lattices. <i>Physical Review A</i> , 2012 , 85,	2.6	1
9	Canted magnetization texture in ferromagnetic tunnel junctions. <i>Physical Review B</i> , 2008 , 78,	3.3	1
8	Giant magnetothermopower and magnetoresistance in metals with embedded ferromagnetic nanoclusters. <i>Journal of Applied Physics</i> , 2007 , 101, 014324	2.5	1
7	Commensurability oscillations in the surface-acoustic-wave-induced acoustoelectric effect in a two-dimensional electron gas. <i>Physical Review B</i> , 2005 , 71,	3.3	1
6	Out-of-equilibrium criticalities in graphene superlattices.. <i>Science</i> , 2022 , 375, 430-433	33.3	1
5	Control of Giant Topological Magnetic Moment and Valley Splitting in Trilayer Graphene. <i>Physical Review Letters</i> , 2021 , 127, 136402	7.4	1
4	Scattering between Minivalleys in Twisted Double Bilayer Graphene.. <i>Physical Review Letters</i> , 2022 , 128, 057702	7.4	0
3	Tunneling theory for a bilayer graphene quantum dot's single- and two-electron states. <i>New Journal of Physics</i> , 2022 , 24, 043003	2.9	0
2	Practical and Fundamental Impact of Epitaxial Graphene on Quantum Metrology. <i>Mapan - Journal of Metrology Society of India</i> , 2013 , 28, 239-250	1	
1	Power dependence of the photocurrent lineshape in a semiconductor quantum dot. <i>Applied Physics Letters</i> , 2007 , 91, 193107	3.4	

