

François M Peeters

List of Publications by Year in descending order

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404
papers

19,666
citations

11608

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times ranked

16684
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferromagnetism with in-plane magnetization, Dirac spin-gapless semiconducting properties, and tunable topological states in two-dimensional rare-earth metal dinitrides. <i>Physical Review B</i> , 2022, 105, .	1.1	9
2	Coulomb impurity on a Dice lattice: Atomic collapse and bound states. <i>Physical Review B</i> , 2022, 105, .	1.1	3
3	Interface-dependent phononic and optical properties of GeO/MoSO heterostructures. <i>Nanoscale</i> , 2022, 14, 865-874.	2.8	5
4	Topologically protected moiré exciton at a twist-boundary in a van der Waals heterostructure. <i>2D Materials</i> , 2022, 9, 025012.	2.0	2
5	Indentation of graphene nano-bubbles. <i>Nanoscale</i> , 2022, , .	2.8	2
6	Isolated and hybrid bilayer graphene quantum rings. <i>Physical Review B</i> , 2022, 105, .	1.1	5
7	Anisotropic and tunable optical conductivity of a two-dimensional semi-Dirac system in the presence of elliptically polarized radiation. <i>Physical Review B</i> , 2022, 105, .	1.1	3
8	Tunneling properties in \pm lattices: Effects of symmetry-breaking terms. <i>Physical Review B</i> , 2022, 105, .	1.1	3
9	Electronic Properties of Oxidized Graphene: Effects of Strain and an Electric Field on Flat Bands and the Energy Gap. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 66-74.	2.1	5
10	Hydration effects and negative dielectric constant of nano-confined water between cation intercalated MXenes. <i>Nanoscale</i> , 2021, 13, 922-929.	2.8	7
11	Electronic and magnetic properties of single-layer FeCl ₂ with defects. <i>Physical Review B</i> , 2021, 103, .	1.1	9
12	Ultra-thin structures of manganese fluorides: conversion from manganese dichalcogenides by fluorination. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10218-10224.	1.3	1
13	Transition-metal adatoms on 2D-GaAs: a route to chiral magnetic 2D materials by design. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 145803.	0.7	0
14	Two-dimensional oxygen functionalized honeycomb and zigzag dumbbell silicene with robust Dirac cones. <i>New Journal of Physics</i> , 2021, 23, 023007.	1.2	2
15	Abnormal in-plane permittivity and ferroelectricity of confined water: From sub-nanometer channels to bulk. <i>Journal of Chemical Physics</i> , 2021, 154, 114503.	1.2	14
16	Effect of Mismatched Electron-Hole Effective Masses on Superfluidity in Double Layer Solid-State Systems. <i>Condensed Matter</i> , 2021, 6, 14.	0.8	2
17	Electron-hole superfluidity in strained Si/Ge type II heterojunctions. <i>Npj Quantum Materials</i> , 2021, 6, .	1.8	9
18	Janus two-dimensional transition metal dichalcogenide oxides: First-principles investigation of WXO monolayers with S , Se, and Te. <i>Physical Review B</i> , 2021, 103, .	1.1	73

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19	Superconducting diode effect via conformal-mapped nanoholes. Nature Communications, 2021, 12, 2703.	5.8	61
20	Prediction of monoclinic single-layer Janus Ga_2X_3 ($X = \text{S, Te, Q, O, O, r, g, B, T, /Overlo}$)	4.0	0
21	Hall and bend resistance of a phosphorene Hall bar. Physical Review B, 2021, 104, .	1.1	1
22	Determining the Molecular Orientation on the Metal Nanoparticle Surface through Surface-Enhanced Raman Spectroscopy and Density Functional Theory Simulations. Journal of Physical Chemistry C, 2021, 125, 16289-16295.	1.5	8
23	<i>Zitterbewegung</i> of Moiré Excitons in Twisted MoS_2 Heterobilayers. Physical Review Letters, 2021, 127, 106801.	2.9	5
24	Tunable effective masses of magneto-excitons in two-dimensional materials. Solid State Communications, 2021, 334-335, 114371.	0.9	1
25	Photoluminescence and electronic transition behaviors of single-stranded DNA. Physical Review E, 2021, 104, 034412.	0.8	0
26	Band-gap formation and morphing in $\Gamma\pm\hat{a}^*T_3$ superlattices. Physical Review B, 2021, 104, .	1.1	9
27	Terahertz magneto-optical properties of graphene hydrodynamic electron liquid. Physical Review B, 2021, 104, .	1.1	6
28	Breakdown of Universal Scaling for Nanometer-Sized Bubbles in Graphene. Nano Letters, 2021, 21, 8103-8110.	4.5	23
29	Substrate dependent terahertz magneto-optical properties of monolayer WS_2 . Optics Letters, 2021, 46, 4892.	1.7	0
30	Reversible ratchet effects in a narrow superconducting ring. Physical Review B, 2021, 103, .	1.1	4
31	Confinement and edge effects on atomic collapse in graphene nanoribbons. Physical Review B, 2021, 103, .	1.1	7
32	Effect of zitterbewegung on the propagation of wave packets in ABC-stacked multilayer graphene: an analytical and computational approach. Journal of Physics Condensed Matter, 2021, 33, 095503.	0.7	6
33	Probing the structure and composition of van der Waals heterostructures using the nonlocality of Dirac plasmons in the terahertz regime. 2D Materials, 2021, 8, 015014.	2.0	4
34	Tailoring Dirac Plasmons via Anisotropic Dielectric Environment by Design. Physical Review Applied, 2021, 16, .	1.5	2
35	Stability of adsorption of Mg and Na on sulfur-functionalized MXenes. Physical Chemistry Chemical Physics, 2021, 23, 25424-25433.	1.3	8
36	Exponentially selective molecular sieving through angstrom pores. Nature Communications, 2021, 12, 7170.	5.8	29

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37	Two-dimensional hydrogenated buckled gallium arsenide: an ab initio study. Journal of Physics Condensed Matter, 2020, 32, 145502.	0.7	2
38	PAI-graphene: A new topological semimetallic two-dimensional carbon allotrope with highly tunable anisotropic Dirac cones. Carbon, 2020, 170, 477-486.	5.4	42
39	Monolayer 1T-LaN2: Dirac spin-gapless semiconductor of π -state and Chern insulator with a high Chern number. Applied Physics Letters, 2020, 117, .	1.5	17
40	Machine learning approach to constructing tight binding models for solids with application to BiTeCl. Journal of Applied Physics, 2020, 128, .	1.1	8
41	Blue Energy Conversion from Holey-Graphene-like Membranes with a High Density of Subnanometer Pores. Nano Letters, 2020, 20, 8634-8639.	4.5	42
42	Out-of-plane permittivity of confined water. Physical Review E, 2020, 102, 022803.	0.8	35
43	Evidence of flat bands and correlated states in buckled graphene superlattices. Nature, 2020, 584, 215-220.	13.7	118
44	Insights into Water Permeation through hBN Nanocapillaries by Ab Initio Machine Learning Molecular Dynamics Simulations. Journal of Physical Chemistry Letters, 2020, 11, 7363-7370.	2.1	33
45	Optical absorption window in Na3Bi based three-dimensional Dirac electronic system. Journal of Applied Physics, 2020, 128, .	1.1	1
46	Assessment of Sulfur-Functionalized MXenes for Li-Ion Battery Applications. Journal of Physical Chemistry C, 2020, 124, 21293-21304.	1.5	22
47	Asymmetric versus symmetric HgTe / Cd x Hg 1 \hat{a} x Te double quantum wells: Bandgap tuning without electric field. Journal of Applied Physics, 2020, 128, 064301.	1.1	4
48	Three-dimensional electron-hole superfluidity in a superlattice close to room temperature. Physical Review B, 2020, 102, .	1.1	8
49	Bandgap engineering of two-dimensional semiconductor materials. Npj 2D Materials and Applications, 2020, 4, .	3.9	528
50	Molecular collapse in graphene: Sublattice symmetry effect. Physical Review B, 2020, 102, .	1.1	2
51	Prevalence of oxygen defects in an in-plane anisotropic transition metal dichalcogenide. Physical Review B, 2020, 102, .	1.1	10
52	Strain and electric field tuning of semi-metallic character WCrCO ₂ MXenes with dual narrow band gap. Journal of Physics Condensed Matter, 2020, 32, 355504.	0.7	33
53	Stable single-layers of calcium halides (CaX ₂ , X = F, Cl, Br, I). Journal of Chemical Physics, 2020, 152, 164116.	1.2	13
54	Substrate dependent terahertz response of monolayer WS2. Applied Physics Letters, 2020, 116, .	1.5	17

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55	The magnetic, electronic, and light-induced topological properties in two-dimensional hexagonal FeX ₂ (X = Cl, Br, I) monolayers. Applied Physics Letters, 2020, 116, .	1.5	18
56	Terahertz optical Hall effect in monolayer MoS ₂ in the presence of proximity-induced interactions. Physical Review B, 2020, 101, .	1.1	6
57	Doping-dependent switch from one- to two-component superfluidity in coupled electron-hole van der Waals heterostructures. Physical Review B, 2020, 101, .	1.1	14
58	Quantum properties and applications of 2D Janus crystals and their superlattices. Applied Physics Reviews, 2020, 7, .	5.5	156
59	Circular quantum dots in twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	19
60	Dirac half-metallicity of Thin PdCl ₃ Nanosheets: Investigation of the Effects of External Fields, Surface Adsorption and Defect Engineering on the Electronic and Magnetic Properties. Scientific Reports, 2020, 10, 213.	1.6	33
61	Double Moiré with a Twist: Supermoiré in Encapsulated Graphene. Nano Letters, 2020, 20, 979-988.	4.5	47
62	Experimental conditions for the observation of electron-hole superfluidity in GaAs heterostructures. Physical Review B, 2020, 101, .	1.1	21
63	Reply to "Comment on "Excitons, trions, and biexcitons in transition-metal dichalcogenides: Magnetic-field dependence". Physical Review B, 2020, 101, .	1.1	0
64	Single-layer Janus black arsenic-phosphorus (b-AsP): Optical dichroism, anisotropic vibrational, thermal, and elastic properties. Physical Review B, 2020, 101, .	1.1	31
65	Two-dimensional graphitic carbon nitrides: Strain-tunable ferromagnetic ordering. Physical Review B, 2020, 101, .	1.1	37
66	The Electronic, Optical, and Thermoelectric Properties of Monolayer PbTe and the Tunability of the Electronic Structure by External Fields and Defects. Physica Status Solidi (B): Basic Research, 2020, 257, 2000182.	0.7	38
67	Transition Metal Dichalcogenides as Strategy for High Temperature Electron-Hole Superfluidity. Condensed Matter, 2020, 5, 22.	0.8	15
68	Tight-Binding Studio: A technical software package to find the parameters of tight-binding Hamiltonian. Computer Physics Communications, 2020, 254, 107379.	3.0	23
69	High performance piezotronic spin transistors using molybdenum disulfide nanoribbon. Nano Energy, 2020, 75, 104953.	8.2	20
70	Band flattening in buckled monolayer graphene. Physical Review B, 2020, 102, .	1.1	25
71	Tuning the Electronic, Optical, and Transport Properties of Phosphorene. NATO Science for Peace and Security Series A: Chemistry and Biology, 2020, , 3-42.	0.5	1
72	Electronic, vibrational, elastic, and piezoelectric properties of monolayer Janus MoSTe phases: A first-principles study. Physical Review B, 2019, 100, .	1.1	120

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73	Adsorption of molecules on C ₃ N nanosheet: A first-principles calculations. Chemical Physics, 2019, 526, 110442.	0.9	49
74	Electron collimation at van der Waals domain walls in bilayer graphene. Physical Review B, 2019, 100, .	1.1	12
75	Inner and outer ring states of MoS ₂ quantum rings: Energy spectrum, charge and spin currents. Journal of Applied Physics, 2019, 125, .	1.1	12
76	Exploiting the Novel Electronic and Magnetic Structure of C ₃ N via Functionalization and Conformation. Advanced Electronic Materials, 2019, 5, 1900459.	2.6	40
77	Tuning the bandgap and introducing magnetism into monolayer BC ₃ by strain/defect engineering and adatom/molecule adsorption. Journal of Applied Physics, 2019, 126, .	1.1	56
78	Molecular collapse in monolayer graphene. 2D Materials, 2019, 6, 045047.	2.0	9
79	Introducing novel electronic and magnetic properties in C ₃ N nanosheets by defect engineering and atom substitution. Physical Chemistry Chemical Physics, 2019, 21, 21070-21083.	1.3	57
80	Confined electron states in two-dimensional HgTe in magnetic field: Quantum dot versus quantum ring behavior. Physical Review B, 2019, 100, .	1.1	4
81	Alkali Metal Intercalation in MXene/Graphene Heterostructures: A New Platform for Ion Battery Applications. Journal of Physical Chemistry Letters, 2019, 10, 727-734.	2.1	88
82	Intense-terahertz-laser-modulated magnetopolaron effect on shallow-donor states in the presence of magnetic field in the Voigt configuration. Physical Review B, 2019, 99, .	1.1	2
83	Quantum and transport mobilities of a $\text{Na}_{1-x}\text{Mn}_x$ -based three-dimensional Dirac system. Physical Review B, 2019, 99, .	1.1	13
84	Strain engineered linear dichroism and Faraday rotation in few-layer phosphorene. Applied Physics Letters, 2019, 114, 243102.	1.5	12
85	Single-layer structures of <i>a</i> -100- and <i>b</i> -010-Gallene: a tight-binding approach. Physical Chemistry Chemical Physics, 2019, 21, 15798-15804.	1.3	15
86	C ₃ N Monolayer: Exploring the Emerging of Novel Electronic and Magnetic Properties with Adatom Adsorption, Functionalizations, Electric Field, Charging, and Strain. Journal of Physical Chemistry C, 2019, 123, 12485-12499.	1.5	78
87	Multicomponent screening and superfluidity in gapped electron-hole double bilayer graphene with realistic bands. Physical Review B, 2019, 99, .	1.1	19
88	Acoustic plasmons at the crossover between the collisionless and hydrodynamic regimes in two-dimensional electron liquids. Physical Review B, 2019, 99, .	1.1	14
89	Raman fingerprint of stacking order in HfS_2 heterobilayer. Physical Review B, 2019, 99, .	1.1	20
90	Conductance fluctuations of monolayer GeSnH_2 in the topological phase using a low-energy effective tight-binding Hamiltonian. Physical Review B, 2019, 99, .	1.1	3

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91	Strain fields in graphene induced by nanopillar mesh. Journal of Applied Physics, 2019, 125, .	1.1	8
92	Coulomb drag in strongly coupled quantum wells: Temperature dependence of the many-body correlations. Applied Physics Letters, 2019, 115, .	1.5	2
93	Composite super-moiré lattices in double-aligned graphene heterostructures. Science Advances, 2019, 5, eaay8897.	4.7	74
94	Two-dimensional carbon nitride (2DCN) nanosheets: Tuning of novel electronic and magnetic properties by hydrogenation, atom substitution and defect engineering. Journal of Applied Physics, 2019, 126, .	1.1	70
95	Vibrational properties of germanane and fluorinated germanene in the chair, boat, and zigzag-line configurations. Journal of Physics Condensed Matter, 2019, 31, 075301.	0.7	10
96	Correlation functions in electron-electron and electron-hole double quantum wells: Temperature, density, and barrier-width dependence. Physical Review B, 2019, 99, .	1.1	6
97	New nanoporous graphyne monolayer as nodal line semimetal: Double Dirac points with an ultrahigh Fermi velocity. Carbon, 2019, 141, 712-718.	5.4	42
98	Electric-field modulation of linear dichroism and Faraday rotation in few-layer phosphorene. 2D Materials, 2019, 6, 015032.	2.0	22
99	Magnetic field dependence of electronic properties of MoS_2 quantum dots with different edges. Physical Review B, 2018, 97, .	1.1	8
100	Electrostrictive behavior of confined water subjected to GPa pressure. Physical Review B, 2018, 97, .	1.1	8
101	Quantum transport in defective phosphorene nanoribbons: Effects of atomic vacancies. Physical Review B, 2018, 97, .	1.1	31
102	Ballistic electron channels including weakly protected topological states in delaminated bilayer graphene. Physical Review B, 2018, 97, .	1.1	13
103	MXenes/graphene heterostructures for Li battery applications: a first principles study. Journal of Materials Chemistry A, 2018, 6, 2337-2345.	5.2	173
104	High-temperature electron-hole superfluidity with strong anisotropic gaps in double phosphorene monolayers. Physical Review B, 2018, 97, .	1.1	21
105	Quantum anomalous Hall effect in a stable $1T\text{-YN}_2$ monolayer with a large nontrivial bandgap and a high Chern number. Nanoscale, 2018, 10, 8153-8161.	2.8	35
106	Tight-binding model for borophene and borophane. Physical Review B, 2018, 97, .	1.1	51
107	Terahertz magneto-optical properties of bi- and tri-layer graphene. Journal of Physics Condensed Matter, 2018, 30, 175701.	0.7	16
108	Transport of hydrogen isotopes through interlayer spacing in van der Waals crystals. Nature Nanotechnology, 2018, 13, 468-472.	15.6	45

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109	Magnetic field dependence of the atomic collapse state in graphene. 2D Materials, 2018, 5, 015017.	2.0	15
110	Confined states in graphene quantum blisters. Journal of Physics Condensed Matter, 2018, 30, 385301.	0.7	5
111	Enhanced Stability of Single-Layer w-Gallene through Hydrogenation. Journal of Physical Chemistry C, 2018, 122, 28302-28309.	1.5	25
112	Anisotropic charge density wave in electron-hole double monolayers: Applied to phosphorene. Physical Review B, 2018, 98, .	1.1	0
113	Electrical dipole on gapped graphene: Bound states and atomic collapse. Physical Review B, 2018, 98, .	1.1	7
114	Dirac nodal line in bilayer borophene: Tight-binding model and low-energy effective Hamiltonian. Physical Review B, 2018, 98, .	1.1	29
115	Monitoring the effect of asymmetrical vertical strain on Janus single layers of MoSSe via vibrational spectrum. Journal of Chemical Physics, 2018, 149, 084707.	1.2	13
116	Interlayer excitons in transition metal dichalcogenide heterostructures. Physical Review B, 2018, 98, .	1.1	52
117	Graphene quantum blisters: A tunable system to confine charge carriers. Applied Physics Letters, 2018, 112, 213101.	1.5	9
118	Veselago focusing of anisotropic massless Dirac fermions. Physical Review B, 2018, 97, .	1.1	9
119	Edge states in gated bilayer-monolayer graphene ribbons and bilayer domain walls. Journal of Applied Physics, 2018, 123, 204301.	1.1	4
120	Enhancement of plasmon-photon coupling in grating coupled graphene inside a Fabry-Pérot cavity. Solid State Communications, 2018, 280, 45-49.	0.9	2
121	Electrically controlled water permeation through graphene oxide membranes. Nature, 2018, 559, 236-240.	13.7	263
122	Multiband Mechanism for the Sign Reversal of Coulomb Drag Observed in Double Bilayer Graphene Heterostructures. Physical Review Letters, 2018, 121, 036601.	2.9	8
123	Excitons, trions, and biexcitons in transition-metal dichalcogenides: Magnetic-field dependence. Physical Review B, 2018, 97, .	1.1	45
124	Electronic and vibrational properties of PbI ₂ : From bulk to monolayer. Physical Review B, 2018, 98, .	1.1	49
125	Ab initio and semiempirical modeling of excitons and trions in monolayer TiS_3 . Physical Review B, 2018, 98, .		
126	Fast water flow through graphene nanocapillaries: A continuum model approach involving the microscopic structure of confined water. Applied Physics Letters, 2018, 113, .	1.5	34

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127	Magneto-polarons in monolayer transition-metal dichalcogenides. Journal of Applied Physics, 2018, 123, .	1.1	21
128	Self-assembly and clustering of magnetic peapod-like rods with tunable directional interaction. PLoS ONE, 2018, 13, e0195552.	1.1	3
129	Topological Dirac semimetal phase in Ge _x Sn _y alloys. Applied Physics Letters, 2018, 112, .	1.5	10
130	DC conductivity of twisted bilayer graphene: Angle-dependent transport properties and effects of disorder. Physical Review Materials, 2018, 2, .	0.9	34
131	Slippage dynamics of confined water in graphene oxide capillaries. Physical Review Materials, 2018, 2, .	0.9	8
132	Exciton states in a circular graphene quantum dot: Magnetic field induced intravalley to intervalley transition. Physical Review B, 2017, 95, .	1.1	9
133	Reversible structural transition in nanoconfined ice. Physical Review B, 2017, 95, .	1.1	28
134	Fundamental mechanisms responsible for the temperature coefficient of resonant frequency in microwave dielectric ceramics. Journal of the American Ceramic Society, 2017, 100, 1508-1516.	1.9	16
135	Gallium bismuth halide GaBi-X ₂ (X = I, Br, Cl) monolayers with distorted hexagonal framework: Novel room-temperature quantum spin Hall insulators. Nano Research, 2017, 10, 2168-2180.	5.8	18
136	Quantum transport in graphene Hall bars: Effects of side gates. Solid State Communications, 2017, 257, 20-26.	0.9	0
137	Stress dependence of the suspended graphene work function: Vacuum Kelvin probe force microscopy and density functional theory. Applied Physics Letters, 2017, 110, 193101.	1.5	9
138	Valley filtering in graphene due to substrate-induced mass potential. Journal of Physics Condensed Matter, 2017, 29, 215502.	0.7	14
139	Dependence of the shape of graphene nanobubbles on trapped substance. Nature Communications, 2017, 8, 15844.	5.8	65
140	Electronic and transport properties of n-type monolayer black phosphorus at low temperatures. Physical Review B, 2017, 95, .	1.1	13
141	Carbon-rich carbon nitride monolayers with Dirac cones: Dumbbell C ₄ N. Carbon, 2017, 118, 285-290.	5.4	40
142	The work function of few-layer graphene. Journal of Physics Condensed Matter, 2017, 29, 035003.	0.7	56
143	Electric- and magnetic-field dependence of the electronic and optical properties of phosphorene quantum dots. Nanotechnology, 2017, 28, 085702.	1.3	31
144	Electronic properties of bilayer phosphorene quantum dots in the presence of perpendicular electric and magnetic fields. Physical Review B, 2017, 96, .	1.1	31

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145	Normal and skewed phosphorene nanoribbons in combined magnetic and electric fields. Physical Review B, 2017, 96, .	1.1	10
146	Wigner crystallization in transition metal dichalcogenides: A new approach to correlation energy. Physical Review B, 2017, 95, .	1.1	22
147	Tight-binding model investigation of the biaxial strain induced topological phase transition in GeCH_3 . Physical Review B, 2017, 96, .	1.1	14
148	Inhomogeneous phases in coupled electron-hole bilayer graphene sheets: Charge Density Waves and Coupled Wigner Crystals. Scientific Reports, 2017, 7, 11510.	1.6	13
149	Tuning a circular p-n junction in graphene from quantum confinement to optical guiding. Nature Nanotechnology, 2017, 12, 1045-1049.	15.6	79
150	Landau levels in biased graphene structures with monolayer-bilayer interfaces. Physical Review B, 2017, 96, .	1.1	9
151	Graphene membrane as a pressure gauge. Applied Physics Letters, 2017, 111, .	1.5	11
152	Electrostatically confined trilayer graphene quantum dots. Physical Review B, 2017, 95, .	1.1	7
153	Self-assembly of rigid magnetic rods consisting of single dipolar beads in two dimensions. Physical Review E, 2017, 96, 012603.	0.8	10
154	Quantum transport across van der Waals domain walls in bilayer graphene. Journal of Physics Condensed Matter, 2017, 29, 425303.	0.7	12
155	Multicomponent plasmons in monolayer MoS_2 with circularly polarized optical pumping. Physical Review B, 2017, 96, .	1.1	13
156	Spatial design and control of graphene flake motion. Physical Review B, 2017, 96, .	1.1	4
157	Strong anisotropic optical conductivity in two-dimensional puckered structures: The role of the Rashba effect. Physical Review B, 2017, 96, .	1.1	18
158	Free surfaces recast superconductivity in few-monolayer MgB_2 : Combined first-principles and ARPES demonstration. Scientific Reports, 2017, 7, 14458.	1.6	27
159	New group-V elemental bilayers: A tunable structure model with four-, six-, and eight-atom rings. Physical Review B, 2017, 96, .	1.1	15
160	Aharonov-Bohm oscillations in phosphorene quantum rings. Physical Review B, 2017, 95, .	1.1	19
161	Structure and reentrant percolation in an inverse patchy colloidal system. Physical Review E, 2017, 95, 062606.	0.8	7
162	Monolayer alkali and transition-metal monoxides: MgO , CaO , MnO , and NiO . Physical Review B, 2017, 95, .	1.1	25

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163	Multicomponent Electron-Hole Superfluidity and the BCS-BEC Crossover in Double Bilayer Graphene. <i>Physical Review Letters</i> , 2017, 119, 257002.	2.9	25
164	Mechanical properties of monolayer GaS and GaSe crystals. <i>Physical Review B</i> , 2016, 94, .	1.1	122
165	Unusual dimensionality effects and surface charge density in 2D Mg(OH) ₂ . <i>Scientific Reports</i> , 2016, 6, 20525.	1.6	49
166	Anisotropic electronic, mechanical, and optical properties of monolayer WTe ₂ . <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	76
167	Strain controlled valley filtering in multi-terminal graphene structures. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	58
168	Nanoribbons: From fundamentals to state-of-the-art applications. <i>Applied Physics Reviews</i> , 2016, 3, .	5.5	77
169	Structural, electronic and optical properties of Cu-doped ZnO: experimental and theoretical investigation. <i>Philosophical Magazine</i> , 2016, 96, 1743-1756.	0.7	32
170	Quantum Transport Characteristics of a p-n Junction on Single Layer TiS ₃ . <i>ChemPhysChem</i> , 2016, 17, 3985-3991.	1.0	12
171	Controlled growth mechanism of poly (3-hexylthiophene) nanowires. <i>Nanotechnology</i> , 2016, 27, 455604.	1.3	25
172	Piezoelectricity in asymmetrically strained bilayer graphene. <i>2D Materials</i> , 2016, 3, 035015.	2.0	14
173	All-strain based valley filter in graphene nanoribbons using snake states. <i>Physical Review B</i> , 2016, 94, .	1.1	30
174	Strain-induced topological phase transition in phosphorene and in phosphorene nanoribbons. <i>Physical Review B</i> , 2016, 94, .	1.1	90
175	Strong dichroic emission in the pseudo one dimensional material ZrS ₃ . <i>Nanoscale</i> , 2016, 8, 16259-16265.	2.8	63
176	Anomalous Dynamical Behavior of Freestanding Graphene Membranes. <i>Physical Review Letters</i> , 2016, 117, 126801.	2.9	59
177	Peculiar half-metallic state in zigzag nanoribbons of MoS_2 . Spin filtering. <i>Physical Review B</i> , 2016, 94, .	1.1	32
178	Electric-field-induced structural changes in water confined between two graphene layers. <i>Physical Review B</i> , 2016, 94, .	1.1	36
179	New family of graphene-based organic semiconductors: An investigation of photon-induced electronic structure manipulation in half-fluorinated graphene. <i>Physical Review B</i> , 2016, 93, .	1.1	5
180	Magnetic field dependence of energy levels in biased bilayer graphene quantum dots. <i>Physical Review B</i> , 2016, 93, .	1.1	22

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181	Bilayer SnS_2 Tunable stacking sequence by charging and loading pressure. <i>Physical Review B</i> , 2016, 93, .		
182	Energy levels of hybrid monolayer-bilayer graphene quantum dots. <i>Physical Review B</i> , 2016, 93, .	1.1	30
183	N-doped graphene: Polarization effects and structural properties. <i>Physical Review B</i> , 2016, 93, .	1.1	16
184	Hexagonal-shaped monolayer-bilayer quantum disks in graphene: A tight-binding approach. <i>Physical Review B</i> , 2016, 94, .	1.1	10
185	Tunable skewed edges in puckered structures. <i>Physical Review B</i> , 2016, 93, .	1.1	31
186	Unusual lattice vibration characteristics in whiskers of the pseudo-one-dimensional titanium trisulfide TiS_3 . <i>Nature Communications</i> , 2016, 7, 12952.	5.8	69
187	Large gap electron-hole superfluidity and shape resonances in coupled graphene nanoribbons. <i>Scientific Reports</i> , 2016, 6, 24860.	1.6	8
188	MgO van der Waals heterobilayer: Electric field tunable band-gap crossover. <i>Physical Review B</i> , 2016, 94, .	1.1	40
189	Infrared to terahertz optical conductivity of n-type and p-type monolayer MoS_2 in the presence of Rashba spin-orbit coupling. <i>Physical Review B</i> , 2016, 94, .	1.1	21
190	Energy levels of ABC-stacked trilayer graphene quantum dots with infinite-mass boundary conditions. <i>Physical Review B</i> , 2016, 94, .	1.1	9
191	The 30-band k - p theory of valley splitting in silicon thin layers. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 195303.	0.7	2
192	Peculiar Piezoelectric Properties of Soft Two-Dimensional Materials. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13948-13953.	1.5	50
193	Computing optical properties of ultra-thin crystals. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2016, 6, 351-368.	6.2	15
194	Exciton pumping across type-I gallium chalcogenide heterojunctions. <i>Nanotechnology</i> , 2016, 27, 065203.	1.3	26
195	Gate tunable layer selectivity of transport in bilayer graphene nanostructures. <i>Europhysics Letters</i> , 2016, 113, 17006.	0.7	17
196	Mo_2C as a high capacity anode material: a first-principles study. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6029-6035.	5.2	249
197	Commensurability Effects in Viscosity of Nanoconfined Water. <i>ACS Nano</i> , 2016, 10, 3685-3692.	7.3	198
198	Characterization of the size and position of electron-hole puddles at a graphene p-n junction. <i>Nanotechnology</i> , 2016, 27, 105203.	1.3	2

#	ARTICLE	IF	CITATIONS
199	Realization of a tunable artificial atom at a supercritically charged vacancy in graphene. Nature Physics, 2016, 12, 545-549.	6.5	110
200	Nitrogenated, phosphorated and arsenicated monolayer holey graphenes. Physical Chemistry Chemical Physics, 2016, 18, 3144-3150.	1.3	57
201	Theory of anharmonic phonons in two-dimensional crystals. Physical Review B, 2015, 91, .	1.1	41
202	Electronic properties of triangular and hexagonal MoS_2 quantum dots. Physical Review B, 2015, 91, .	1.1	17
203	Electron polarization function and plasmons in metallic armchair graphene nanoribbons. Physical Review B, 2015, 91, .	1.1	12
204	Portlandite crystal: Bulk, bilayer, and monolayer structures. Physical Review B, 2015, 91, .	1.1	34
205	Chiral properties of topological-state loops. Physical Review B, 2015, 91, .	1.1	6
206	TiS_3 Width-independent band gap and strain-tunable electronic properties. Physical Review B, 2015, 92, .	1.1	14
207	Thermal properties of black and blue phosphorenes from a first-principles quasiharmonic approach. Physical Review B, 2015, 92, .	1.1	140
208	Energy levels of bilayer graphene quantum dots. Physical Review B, 2015, 92, .	1.1	24
209	Significant effect of stacking on the electronic and optical properties of few-layer black phosphorus. Physical Review B, 2015, 92, .	1.1	152
210	Field Effect and Strongly Localized Carriers in the Metal-Insulator Transition Material VO_2 . Physical Review Letters, 2015, 115, 196401.	2.9	31
211	Anisotropic exciton Stark shift in black phosphorus. Physical Review B, 2015, 91, .	1.1	92
212	Valley filtering using electrostatic potentials in bilayer graphene. Physical Review B, 2015, 92, .	1.1	44
213	Tuning the magnetic anisotropy in single-layer crystal structures. Physical Review B, 2015, 92, .	1.1	37
214	Heterostructures of graphene and nitrogenated holey graphene: Moiré pattern and Dirac ring. Physical Review B, 2015, 92, .	1.1	34
215	AA-stacked bilayer square ice between graphene layers. Physical Review B, 2015, 92, .	1.1	48
216	Collapse of the low temperature insulating state in Cr-doped VO_3 thin films. Applied Physics Letters, 2015, 107, .	1.5	14

#	ARTICLE	IF	CITATIONS
217	Derivatization and diffusive motion of molecular fullerenes: <i>Ab initio</i> and atomistic simulations. Journal of Applied Physics, 2015, 118, .	1.1	2
218	Veselago lensing in graphene with a p-n junction: Classical versus quantum effects. Journal of Applied Physics, 2015, 118, .	1.1	20
219	Quantum tunneling between bent semiconductor nanowires. Journal of Applied Physics, 2015, 118, 174301.	1.1	7
220	Theory of thermal expansion in 2D crystals. Physica Status Solidi (B): Basic Research, 2015, 252, 2433-2437.	0.7	23
221	Wave fronts and packets in 1D models of different meta-materials: Graphene, left-handed media and transmission line. Physica Status Solidi (B): Basic Research, 2015, 252, 2330-2338.	0.7	1
222	Hexagonal AlN: Dimensional-crossover-driven band-gap transition. Physical Review B, 2015, 91, .	1.1	121
223	Stable half-metallic monolayers of FeCl ₂ . Applied Physics Letters, 2015, 106, .	1.5	108
224	Theoretical study of electronic transport properties of a graphene-silicene bilayer. Journal of Applied Physics, 2015, 117, 225101.	1.1	11
225	Graphane. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2015, 5, 255-272.	6.2	53
226	Electronic and magnetic properties of 1 T-TiSe ₂ nanoribbons. 2D Materials, 2015, 2, 044002.	2.0	21
227	Rippling, buckling, and melting of single- and multilayer MoS ₂ . Physical Review B, 2015, 91, .	1.1	41
228	Fano resonances in the conductance of graphene nanoribbons with side gates. Physical Review B, 2015, 91, .	1.1	17
229	Tuning the Optical, Magnetic, and Electrical Properties of ReSe ₂ by Nanoscale Strain Engineering. Nano Letters, 2015, 15, 1660-1666.	4.5	363
230	Diffusion of fluorine on and between graphene layers. Physical Review B, 2015, 91, .	1.1	17
231	Structural transitions and long-time self-diffusion of interacting colloids confined by a parabolic potential. Journal of Chemical Physics, 2015, 142, 024902.	1.2	8
232	Tunable spin and charge transport in silicene nanoribbons. Physical Review B, 2015, 92, .	1.1	67
233	Terahertz plasmon-polariton modes in graphene driven by electric field inside a Fabry-Pérot cavity. Journal of Applied Physics, 2015, 117, 223104.	1.1	11
234	The Split-Operator Technique for the Study of Spinorial Wavepacket Dynamics. Communications in Computational Physics, 2015, 17, 850-866.	0.7	31

#	ARTICLE	IF	CITATIONS
235	Environmental Changes in MoTe ₂ Excitonic Dynamics by Defects-Activated Molecular Interaction. ACS Nano, 2015, 9, 5326-5332.	7.3	166
236	Vacancy Formation and Oxidation Characteristics of Single Layer TiS ₃ . Journal of Physical Chemistry C, 2015, 119, 10709-10715.	1.5	51
237	Tuning Carrier Confinement in the MoS ₂ /WS ₂ Lateral Heterostructure. Journal of Physical Chemistry C, 2015, 119, 9580-9586.	1.5	74
238	Mechanical properties of monolayer sulphides: a comparative study between MoS ₂ , HfS ₂ and TiS ₃ . Physical Chemistry Chemical Physics, 2015, 17, 27742-27749.	1.3	99
239	Engineering excitonic dynamics and environmental stability of post-transition metal chalcogenides by pyridine functionalization technique. Nanoscale, 2015, 7, 17109-17115.	2.8	12
240	Enhancement of the Stability of Fluorine Atoms on Defective Graphene and at Graphene/Fluorographene Interface. ACS Applied Materials & Interfaces, 2015, 7, 19659-19665.	4.0	39
241	An efficient finite-difference scheme for computation of electron states in free-standing and core-shell quantum wires. Computer Physics Communications, 2015, 197, 17-26.	3.0	9
242	Promising Piezoelectric Performance of Single Layer Transition-Metal Dichalcogenides and Dioxides. Journal of Physical Chemistry C, 2015, 119, 23231-23237.	1.5	164
243	Rayleigh instability of confined vortex droplets in critical superconductors. Nature Physics, 2015, 11, 21-25.	6.5	22
244	Dynamical properties and melting of binary two-dimensional colloidal alloys. Physical Review E, 2014, 90, 062311.	0.8	3
245	Engineering electronic properties of metal-MoSe ₂ interfaces using self-assembled monolayers. Journal of Materials Chemistry C, 2014, 2, 9842-9849.	2.7	25
246	Orbital magnetic moments in insulating Dirac systems: Impact on magnetotransport in graphene van der Waals heterostructures. Physical Review B, 2014, 90, .	1.1	7
247	Electron energy and temperature relaxation in graphene on a piezoelectric substrate. Physical Review B, 2014, 89, .	1.1	17
248	Magnetic particles confined in a modulated channel: Structural transitions tunable by tilting a magnetic field. Physical Review E, 2014, 89, 032309.	0.8	13
249	The interband optical absorption in silicon quantum wells: Application of the 30-band k · p model. Applied Physics Letters, 2014, 104, 242103.	1.5	1
250	Role of atomic vacancies and boundary conditions on ballistic thermal transport in graphene nanoribbons. Physical Review B, 2014, 90, .	1.1	20
251	Ag and Au atoms intercalated in bilayer heterostructures of transition metal dichalcogenides and graphene. APL Materials, 2014, 2, 092801.	2.2	11
252	Spin-Valley Filtering in Strained Graphene Structures with Artificially Induced Carrier Mass and Spin-Orbit Coupling. Physical Review Letters, 2014, 113, 046601.	2.9	98

#	ARTICLE	IF	CITATIONS
253	Formation and stability of point defects in monolayer rhenium disulfide. <i>Physical Review B</i> , 2014, 89, .	1.1	151
254	Single-file and normal diffusion of magnetic colloids in modulated channels. <i>Physical Review E</i> , 2014, 89, 032306.	0.8	8
255	Stabilized silicene within bilayer graphene: A proposal based on molecular dynamics and density-functional tight-binding calculations. <i>Physical Review B</i> , 2014, 89, .	1.1	51
256	Monolayer behaviour in bulk ReS ₂ due to electronic and vibrational decoupling. <i>Nature Communications</i> , 2014, 5, 3252.	5.8	906
257	Formation and diffusion characteristics of Pt clusters on Graphene, 1Hâ€MoS ₂ and 1Tâ€TaS ₂ . <i>Annalen Der Physik</i> , 2014, 526, 423-429.	0.9	13
258	Nanofilms as effectively multiband superconductors: Intraband-pairing approximation and Ginzburgâ€Landau theory. <i>Physica B: Condensed Matter</i> , 2014, 455, 3-5.	1.3	1
259	Stability of CH ₃ molecules trapped on hydrogenated sites of graphene. <i>Physica B: Condensed Matter</i> , 2014, 455, 60-65.	1.3	7
260	Doping of rhenium disulfide monolayers: a systematic first principles study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16771-16779.	1.3	62
261	Influence of vacancy defects on the thermal stability of silicene: a reactive molecular dynamics study. <i>RSC Advances</i> , 2014, 4, 1133-1137.	1.7	66
262	Spin and valley polarization of plasmons in silicene due to external fields. <i>Physical Review B</i> , 2014, 90, .	1.1	56
263	Graphene on boron-nitride: MoirÃ© pattern in the van der Waals energy. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	66
264	Analytical study of the energy levels in bilayer graphene quantum dots. <i>Carbon</i> , 2014, 78, 392-400.	5.4	36
265	Topological confinement in trilayer graphene. <i>Physical Review B</i> , 2014, 89, .	1.1	4
266	Melting of Partially Fluorinated Graphene: From Detachment of Fluorine Atoms to Large Defects and Random Coils. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4460-4464.	1.5	17
267	Mechanical and thermal properties of <i>h</i>-MX ₂ (Mâ€=â€Cr, Mo, W; Xâ€=â€O, S, Se, Te) monolayers: A comparative study. <i>Applied Physics Letters</i> , 2014, 104, 203110.	1.5	157
268	Plasmon and coupled plasmon-phonon modes in graphene in the presence of a driving electric field. <i>Physical Review B</i> , 2014, 89, .	1.1	9
269	Enhancement of electron-hole superfluidity in double few-layer graphene. <i>Scientific Reports</i> , 2014, 4, 7319.	1.6	42
270	Klein paradox for a pn junction in multilayer graphene. <i>Europhysics Letters</i> , 2013, 102, 27001.	0.7	25

#	ARTICLE	IF	CITATIONS
271	Electronic states in a graphene flake strained by a Gaussian bump. Physical Review B, 2013, 88, .	1.1	50
272	Cerenkov emission of terahertz acoustic-phonons from graphene. Applied Physics Letters, 2013, 102, 222101.	1.5	29
273	Electronic structure of a hexagonal graphene flake subjected to triaxial stress. Physical Review B, 2013, 88, .	1.1	52
274	Electron-electron interactions in bilayer graphene quantum dots. Physical Review B, 2013, 88, .	1.1	32
275	Stone-Wales defects in silicene: Formation, stability, and reactivity of defect sites. Physical Review B, 2013, 88, .	1.1	108
276	Realization of free-standing silicene using bilayer graphene. Applied Physics Letters, 2013, 103, .	1.5	80
277	Spin-orbit-interaction induced singularity of the charge density relaxation propagator. Physical Review B, 2013, 88, .	1.1	2
278	Pseudo magnetic field in strained graphene: Revisited. Solid State Communications, 2013, 175-176, 76-82.	0.9	90
279	Strain and band-mixing effects on the excitonic Aharonov-Bohm effect in In(Ga)As/GaAs ringlike quantum dots. Physical Review B, 2013, 87, .	1.1	19
280	Snake states in graphene quantum dots in the presence of a $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle - \langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \text{n} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ junction. Physical Review B, 2013, 87, .	1.1	17
281	Antiferromagnetism in hexagonal graphene structures: Rings versus dots. Physical Review B, 2013, 87, .	1.1	31
282	Phonon softening and direct to indirect band gap crossover in strained single-layer MoSe $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2013, 87, .	1.1	200
283	Anomalous Raman spectra and thickness-dependent electronic properties of WSe $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2013, 87, .	1.1	408
284	Multiband tunneling in trilayer graphene. Physical Review B, 2013, 87, .	1.1	14
285	Graphene Hall bar with an asymmetric pn-junction. Journal of Applied Physics, 2013, 113, 193701.	1.1	8
286	Ginzburg-Landau theory for multiband superconductors: Microscopic derivation. Physical Review B, 2013, 87, .	1.1	66
287	Nanofilms as quantum-engineered multiband superconductors: The Ginzburg-Landau theory. Europhysics Letters, 2013, 102, 27003.	0.7	8
288	Thermomechanical properties of a single hexagonal boron nitride sheet. Physical Review B, 2013, 87, .	1.1	87

#	ARTICLE	IF	CITATIONS
289	Optoelectronic properties of ABC-stacked trilayer graphene. Physica Status Solidi (B): Basic Research, 2013, 250, 86-94.	0.7	6
290	Landau-level dispersion and the quantum Hall plateaus in bilayer graphene. , 2013, , .		0
291	Braess paradox at the mesoscopic scale. Physical Review B, 2013, 88, .	1.1	20
292	30-band $\langle \mathbf{k} \rangle$ model of electron and hole states in silicon quantum wells. Physical Review B, 2013, 88, .	1.1	8
293	Piezoelectric surface acoustical phonon limited mobility of electrons in graphene on a GaAs substrate. Physical Review B, 2013, 87, .	1.1	24
294	Atypical BCS-BEC crossover induced by quantum-size effects. Physical Review A, 2012, 86, .	1.0	35
295	Comment on "Chiral tunneling in trilayer graphene" [Appl. Phys. Lett. 100, 163102 (2012)]. Applied Physics Letters, 2012, 101, .	1.5	7
296	Extended Ginzburg-Landau formalism: Systematic expansion in small deviation from the critical temperature. Physical Review B, 2012, 85, .	1.1	40
297	Resonant valley filtering of massive Dirac electrons. Physical Review B, 2012, 86, .	1.1	55
298	Wave-packet scattering on graphene edges in the presence of a pseudomagnetic field. Physical Review B, 2012, 86, .	1.1	28
299	Induced polarization and electronic properties of carbon-doped boron nitride nanoribbons. Physical Review B, 2012, 86, .	1.1	43
300	Cyclotron resonance of trilayer graphene. Physical Review B, 2012, 86, .	1.1	7
301	Nanoengineered nonuniform strain in graphene using nanopillars. Physical Review B, 2012, 86, .	1.1	55
302	Hole states in nanocups in a magnetic field. Physical Review B, 2012, 85, .	1.1	4
303	Magnetotransport in periodically modulated bilayer graphene. Physical Review B, 2012, 85, .	1.1	19
304	Wavepacket scattering of Dirac and Schrödinger particles on potential and magnetic barriers. Journal of Physics Condensed Matter, 2011, 23, 275801.	0.7	34
305	Extended Ginzburg-Landau Formalism for Two-Band Superconductors. Physical Review Letters, 2011, 106, 047005.	2.9	91
306	High-field transport properties of graphene. Journal of Applied Physics, 2011, 110, .	1.1	17

#	ARTICLE	IF	CITATIONS
307	Energy levels of triangular and hexagonal graphene quantum dots: A comparative study between the tight-binding and Dirac equation approach. <i>Physical Review B</i> , 2011, 84, .	1.1	148
308	Vibrational properties of graphene fluoride and graphane. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	68
309	Valley-Dependent Brewster Angles and Goos-Hänchen Effect in Strained Graphene. <i>Physical Review Letters</i> , 2011, 106, 176802.	2.9	253
310	Spin and momentum filtering of electrons on the surface of a topological insulator. <i>Applied Physics Letters</i> , 2011, 98, 162101.	1.5	32
311	Tuning of anisotropy in two-electron quantum dots by spin-orbit interactions. <i>Applied Physics Letters</i> , 2011, 99, 032102.	1.5	7
312	Chiral states in bilayer graphene: Magnetic field dependence and gap opening. <i>Physical Review B</i> , 2011, 84, .	1.1	53
313	Excitonic Aharonov-Bohm effect: Unstrained versus strained type-I semiconductor nanorings. <i>Physical Review B</i> , 2011, 84, .	1.1	20
314	Vortex-vortex interaction in bulk superconductors: Ginzburg-Landau theory. <i>Physical Review B</i> , 2011, 83, .	1.1	32
315	Electronic and optical properties of a circular graphene quantum dot in a magnetic field: Influence of the boundary conditions. <i>Physical Review B</i> , 2011, 84, .	1.1	84
316	Study on the giant positive magnetoresistance and Hall effect in ultrathin graphite flakes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1252-1258.	0.8	9
317	Band structure, density of states, and transmission in graphene bilayer superlattices. , 2010, , .		0
318	Extra Dirac points in the energy spectrum for superlattices on single-layer graphene. <i>Physical Review B</i> , 2010, 81, .	1.1	225
319	Carbon clusters: From ring structures to nanographene. <i>Physical Review B</i> , 2010, 81, .	1.1	60
320	Angular confinement and direction-dependent transmission in graphene nanostructures with magnetic barriers. , 2010, , .		0
321	Intrinsic optical anisotropy of [001]-grown short-period InAs/GaSb superlattices. <i>Physical Review B</i> , 2010, 82, .	1.1	18
322	Continuous structural transitions in quasi-one-dimensional classical Wigner crystals. <i>Physical Review B</i> , 2010, 81, .	1.1	39
323	Transport detection of quantum Hall fluctuations in graphene. <i>Physical Review B</i> , 2010, 81, .	1.1	26
324	Single-layer and bilayer graphene superlattices: collimation, additional Dirac points and Dirac lines. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 5499-5524.	1.6	71

#	ARTICLE	IF	CITATIONS
325	Klein tunneling in single and multiple barriers in graphene. Semiconductor Science and Technology, 2010, 25, 033002.	1.0	89
326	Tuning of the two electron states in quantum rings through the spin-orbit interaction. Physical Review B, 2010, 82, .	1.1	10
327	Electron tunneling through double magnetic barriers on the surface of a topological insulator. Physical Review B, 2010, 82, .	1.1	66
328	Quantum tunneling through graphene nanorings. Nanotechnology, 2010, 21, 185201.	1.3	32
329	Optoelectronic properties of graphene in the presence of optical phonon scattering. Physical Review B, 2010, 82, .	1.1	32
330	Efficient Numerical Approach to Inhomogeneous Superconductivity: The Chebyshev-Bogoliubov-de Gennes Method. Physical Review Letters, 2010, 105, 167006.	2.9	87
331	Electronic and magnetic properties of superlattices of graphene/graphane nanoribbons with different edge hydrogenation. Physical Review B, 2010, 82, .	1.1	47
332	First-principles investigation of graphene fluoride and graphane. Physical Review B, 2010, 82, .	1.1	397
333	Wave-packet dynamics and valley filter in strained graphene. Physical Review B, 2010, 82, .	1.1	108
334	Kronig-Penney model on bilayer graphene: Spectrum and transmission periodic in the strength of the barriers. Physical Review B, 2010, 82, .	1.1	40
335	Topological confinement in graphene bilayer quantum rings. Applied Physics Letters, 2010, 96, .	1.5	30
336	Interband Optical Properties of Concentric Type-I Nanorings in a Normal Magnetic Field. Acta Physica Polonica A, 2010, 117, 733-737.	0.2	15
337	The Optical Excitonic Aharonov-Bohm Effect in a Few Nanometer Wide Type-I Nanorings. Acta Physica Polonica A, 2010, 117, 974-977.	0.2	2
338	Landau levels in graphene bilayer quantum dots. Physical Review B, 2009, 79, .	1.1	29
339	Terahertz absorption window in bilayer graphene. , 2009, , .		0
340	Wave packet dynamics in semiconductor quantum rings of finite width. Physical Review B, 2009, 80, .	1.1	44
341	Artificial molecular quantum rings under magnetic field influence. Journal of Applied Physics, 2009, 106, 073702.	1.1	5
342	Dyakonov-Perel spin relaxation in $\ln\text{Sb}$ wells. Physical Review B, 2009, 80, .		

#	ARTICLE	IF	CITATIONS
343	Resonant tunneling through S- and U-shaped graphene nanoribbons. Nanotechnology, 2009, 20, 415203.	1.3	29
344	Dirac electrons in a Kronig-Penney potential: Dispersion relation and transmission periodic in the strength of the barriers. Physical Review B, 2009, 80, .	1.1	101
345	Excitonic properties of strained triple quantum-ring molecules. Physical Review B, 2009, 79, .	1.1	8
346	Dependence of resistivity on electron density and temperature in graphene. Physical Review B, 2009, 79, .	1.1	34
347	Bilayer graphene with single and multiple electrostatic barriers: Band structure and transmission. Physical Review B, 2009, 79, .	1.1	79
348	Optical conductance and transmission in bilayer graphene. Journal of Applied Physics, 2009, 106, 043103.	1.1	12
349	Theoretical study of the stable states of small carbon clusters C_n . Physical Review B, 2008, 78, .	1.1	34
350	Tuning of energy levels and optical properties of graphene quantum dots. Physical Review B, 2008, 77, .	1.1	303
351	Dirac and Klein-Gordon particles in one-dimensional periodic potentials. Physical Review B, 2008, 77, .	1.1	199
352	Graphene: A perfect nanoballoon. Applied Physics Letters, 2008, 93, .	1.5	346
353	Quasibound states of quantum dots in single and bilayer graphene. Physical Review B, 2008, 77, .	1.1	164
354	Quantum and transport conductivities in monolayer graphene. Physical Review B, 2008, 77, .	1.1	32
355	Direction-dependent tunneling through nanostructured magnetic barriers in graphene. Physical Review B, 2008, 77, .	1.1	203
356	Wavevector filtering through single-layer and bilayer graphene with magnetic barrier structures. Applied Physics Letters, 2008, 93, 242103.	1.5	93
357	Structural and dynamical properties of a quasi-one-dimensional classical binary system. Physical Review B, 2008, 77, .	1.1	21
358	Control of the persistent currents in two interacting quantum rings through the Coulomb interaction and interring tunneling. Physical Review B, 2008, 78, .	1.1	26
359	Molecular states of two vertically coupled systems of classical charged particles confined by a Coulomb potential. Physical Review B, 2007, 76, .	1.1	3
360	Graphene ribbons with a line of impurities: Opening of a gap. Physical Review B, 2007, 76, .	1.1	46

#	ARTICLE	IF	CITATIONS
361	Oscillations of the superconducting temperature induced by quantum well states in thin metallic films: Numerical solution of the Bogoliubov-de Gennes equations. <i>Physical Review B</i> , 2007, 75, .	1.1	84
362	Landau levels and oscillator strength in a biased bilayer of graphene. <i>Physical Review B</i> , 2007, 76, .	1.1	125
363	Optical Aharonov-Bohm effect in stacked type-II quantum dots. <i>Physical Review B</i> , 2007, 76, .	1.1	66
364	Graphene-based resonant-tunneling structures. <i>Applied Physics Letters</i> , 2007, 90, 132122.	1.5	153
365	Magnetic interface states in graphene-based quantum wires. <i>Physical Review B</i> , 2007, 75, .	1.1	37
366	Normal and Dirac fermions in graphene multilayers: Tight-binding description of the electronic structure. <i>Physical Review B</i> , 2007, 75, .	1.1	137
367	Exciton states and magneto-optical transitions in stacks of InGaAs/GaAs self-assembled quantum rings. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
368	Graphene-based quantum wires. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
369	Ground state configurations of vertically coupled quantum rings. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 560-562.	0.8	1
370	Tunable Quantum Dots in Bilayer Graphene. <i>Nano Letters</i> , 2007, 7, 946-949.	4.5	169
371	From graphene to graphite: Electronic structure around the K point. <i>Physical Review B</i> , 2006, 74, .	1.1	849
372	Confined states and direction-dependent transmission in graphene quantum wells. <i>Physical Review B</i> , 2006, 74, .	1.1	227
373	Interplay between s-d exchange interaction and Rashba effect: Spin-polarized transport. <i>Applied Physics Letters</i> , 2006, 89, 132112.	1.5	11
374	High pulse area undamping of Rabi oscillations in quantum dots coupled to phonons. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2233-2240.	0.7	15
375	Coherent nonlinear optical response of excitons and biexcitons in quantum dots coupled to phonons. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2241-2246.	0.7	2
376	Artificial molecular quantum rings: Spin density functional theory calculations. <i>Physical Review B</i> , 2006, 74, .	1.1	25
377	Spin-polarized transport of two-dimensional electron gas embedded in a diluted magnetic semiconductor. <i>Applied Physics Letters</i> , 2005, 86, 192107.	1.5	6
378	Intersublevel magnetoabsorption in the valence band of p-type InAs/GaAs and Ge/Si self-assembled quantum dots. <i>Physical Review B</i> , 2005, 71, .	1.1	8

#	ARTICLE	IF	CITATIONS
379	Bound states and lifetime of an electron on a bulk helium surface. <i>Physical Review B</i> , 2005, 72, .	1.1	10
380	Perturbation of collisional plasma flow around a charged dust particle: Kinetic analysis. <i>Physics of Plasmas</i> , 2005, 12, 113501.	0.7	14
381	Resonant Tunneling of Holes in GaMnAs-Related Double-Barrier Structures. <i>Journal of Superconductivity and Novel Magnetism</i> , 2003, 16, 279-282.	0.5	5
382	Magnetic field tuning of the effective g factor in a diluted magnetic semiconductor quantum dot. <i>Applied Physics Letters</i> , 2003, 82, 2661-2663.	1.5	54
383	Spin-polarized ballistic transport in diluted magnetic semiconductor quantum wire systems. <i>Physical Review B</i> , 2003, 68, .	1.1	24
384	Electron Effective Mass and Resonant Polaron Effect in CdTe/CdMgTe Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 229, 597-600.	0.7	7
385	Electron Effective Mass and Resonant Polaron Effect in CdTe/CdMgTe Quantum Wells. , 2002, 229, 597.		1
386	Asymmetric Stark shifts in In _{0.18} Ga _{0.82} As/GaAs near-surface quantum wells: The image charge effect. <i>Journal of Applied Physics</i> , 2000, 88, 5246-5251.	1.1	18
387	Continuum Wannier-Stark Ladders Strongly Coupled by Zener Resonances in Semiconductor Superlattices. <i>Physical Review Letters</i> , 1999, 82, 3120-3123.	2.9	30
388	Hall magnetometer in the ballistic regime. <i>Applied Physics Letters</i> , 1998, 72, 572-574.	1.5	118
389	Hall Magnetocapacitance in Two-Dimensional Electron Systems. <i>Physical Review Letters</i> , 1998, 81, 5398-5401.	2.9	4
390	Minigaps and Novel Giant Negative Magnetoresistance in InAs/GaSb Semimetallic Superlattices. <i>Physical Review Letters</i> , 1997, 79, 3034-3037.	2.9	89
391	Phase transitions in individual sub-micrometre superconductors. <i>Nature</i> , 1997, 390, 259-262.	13.7	388
392	Electron capture in GaAs quantum wells via electron-electron and optic phonon scattering. <i>Applied Physics Letters</i> , 1996, 68, 117-119.	1.5	11
393	Coulomb coupling between spatially separated electron and hole layers: Generalized random-phase approximation. <i>Physical Review Letters</i> , 1993, 70, 2146-2149.	2.9	58
394	Direct Coulomb and phonon-mediated coupling between spatially separated electron gases. <i>Physical Review Letters</i> , 1992, 68, 2516-2519.	2.9	107
395	Extended stability region for large bipolarons through interaction with multiple phonon branches. <i>Ferroelectrics</i> , 1992, 130, 27-34.	0.3	19
396	Effects of Confinement on Shallow Impurities in GaAs-Ga _{1-x} Al _x As Quantum Dots. <i>Materials Research Society Symposia Proceedings</i> , 1992, 281, 79.	0.1	3

#	ARTICLE	IF	CITATIONS
397	Electron Relaxation in Multisubband GaAs Quantum Wire. Materials Research Society Symposia Proceedings, 1992, 283, 827.	0.1	0
398	Diffusion-to-streaming transition in a two-dimensional electron system in a polar semiconductor. Physical Review B, 1991, 43, 14134-14141.	1.1	24
399	Effect of the confining potential on the magneto-optical spectrum of a quantum dot. Journal of Applied Physics, 1990, 68, 3435-3438.	1.1	105
400	Influence of Many-Body Effects on the Cyclotron Resonance Mass of Two-Dimensional Polarons with Application to GaAs _{1-x} Al _x /GaAs Heterostructures. Physica Status Solidi (B): Basic Research, 1987, 143, 581-594.	0.7	17
401	Landau levels above the optical-phonon continuum in two and three dimensions. Physical Review B, 1986, 33, 4338-4340.	1.1	52
402	Ground-state energy of a polaron in dimensions. Physical Review B, 1986, 33, 3926-3934.	1.1	137
403	Energy levels of two- and three-dimensional polarons in a magnetic field. Physical Review B, 1985, 31, 3689-3695.	1.1	205
404	Statistical properties of polarons in a magnetic field. I. Analytic results. Physical Review B, 1982, 25, 7281-7301.	1.1	92