

Philip Kim

List of Publications by Year in descending order

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291
papers

100,860
citations

1046

113
h-index

443

274
g-index

299
all docs

299
docs citations

299
times ranked

60246
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic thermal transport measurement in low-dimensional materials with graphene non-local noise thermometry. <i>Nature Nanotechnology</i> , 2022, 17, 166-173.	31.5	13
2	Crossover between strongly coupled and weakly coupled exciton superfluids. <i>Science</i> , 2022, 375, 205-209.	12.6	33
3	Chloroaluminate Anion Intercalation in Graphene and Graphite: From Two-Dimensional Devices to Aluminum-Ion Batteries. <i>Nano Letters</i> , 2022, 22, 1726-1733.	9.1	13
4	Evidence for 4e charge of Cooper quartets in a biased multi-terminal graphene-based Josephson junction. <i>Nature Communications</i> , 2022, 13, .	12.8	19
5	Beam steering at the nanosecond time scale with an atomically thin reflector. <i>Nature Communications</i> , 2022, 13, .	12.8	6
6	Andreev Reflection in the Fractional Quantum Hall State. <i>Physical Review X</i> , 2022, 12, .	8.9	22
7	Large Single Crystals of Two-Dimensional π -Conjugated Metal-Organic Frameworks via Biphasic Solution-Solid Growth. <i>ACS Central Science</i> , 2021, 7, 104-109.	11.3	40
8	Excitons in a reconstructed moiré potential in twisted WSe ₂ /WSe ₂ homobilayers. <i>Nature Materials</i> , 2021, 20, 480-487.	27.5	109
9	Probing giant Zeeman shift in vanadium-doped $W_{1-x}V_xSe_2$ via resonant magnetotunneling transport. <i>Physical Review B</i> , 2021, 103, .	3.2	12
10	Dual-Gated Graphene Devices for Near-Field Nano-imaging. <i>Nano Letters</i> , 2021, 21, 1688-1693.	9.1	13
11	Aharonov-Bohm effect in graphene-based Fabry-Pérot quantum Hall interferometers. <i>Nature Nanotechnology</i> , 2021, 16, 563-569.	31.5	48
12	Electric field-tunable superconductivity in alternating-twist magic-angle trilayer graphene. <i>Science</i> , 2021, 371, 1133-1138.	12.6	261
13	Josephson junction infrared single-photon detector. <i>Science</i> , 2021, 372, 409-412.	12.6	45
14	Electrically controlled emission from singlet and triplet exciton species in atomically thin light-emitting diodes. <i>Physical Review B</i> , 2021, 103, .	3.2	26
15	Fast and accurate robotic optical detection of exfoliated graphene and hexagonal boron nitride by deep neural networks. <i>2D Materials</i> , 2021, 8, 035017.	4.4	7
16	Bilayer Wigner crystals in a transition metal dichalcogenide heterostructure. <i>Nature</i> , 2021, 595, 48-52.	27.8	98
17	Unconventional supercurrent phase in Ising superconductor Josephson junction with atomically thin magnetic insulator. <i>Nature Communications</i> , 2021, 12, 5332.	12.8	27
18	High-bandwidth, variable-resistance differential noise thermometry. <i>Review of Scientific Instruments</i> , 2021, 92, 014904.	1.3	3

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19	Coulomb Drag between a Carbon Nanotube and Monolayer Graphene. <i>Physical Review Letters</i> , 2021, 127, 257701.	7.8	5
20	Graphene-based Josephson junction microwave bolometer. <i>Nature</i> , 2020, 586, 42-46.	27.8	88
21	Imaging viscous flow of the Dirac fluid in graphene. <i>Nature</i> , 2020, 583, 537-541.	27.8	213
22	Broken mirror symmetry in excitonic response of reconstructed domains in twisted MoSe ₂ /MoSe ₂ bilayers. <i>Nature Nanotechnology</i> , 2020, 15, 750-754.	31.5	106
23	40 years of the quantum Hall effect. <i>Nature Reviews Physics</i> , 2020, 2, 397-401.	26.6	84
24	Torsional Periodic Lattice Distortion in Twisted Bilayer Graphene. <i>Microscopy and Microanalysis</i> , 2020, 26, 864-866.	0.4	1
25	In situ nanoscale imaging of moiré superlattices in twisted van der Waals heterostructures. <i>Nature Communications</i> , 2020, 11, 4209.	12.8	43
26	Imaging of 2-Dimensional Dislocation Networks in Twisted Bilayer Graphene and Beyond. <i>Microscopy and Microanalysis</i> , 2020, 26, 854-855.	0.4	1
27	Tuning Electrical Conductance of MoS ₂ Monolayers through Substitutional Doping. <i>Nano Letters</i> , 2020, 20, 4095-4101.	9.1	100
28	Imaging Andreev Reflection in Graphene. <i>Nano Letters</i> , 2020, 20, 4890-4894.	9.1	14
29	Thermoelectric power of Sachdev-Ye-Kitaev islands: Probing Bekenstein-Hawking entropy in quantum matter experiments. <i>Physical Review B</i> , 2020, 101, .	3.2	23
30	Electrically Tunable Valley Dynamics in Twisted WSe_2 Bilayers. <i>Physical Review Letters</i> , 2020, 124, 217403.	7.8	89
31	Bosonic topological insulator intermediate state in the superconductor-insulator transition. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126570.	2.1	23
32	Zhao et al. Reply.. <i>Physical Review Letters</i> , 2020, 124, 249702.	7.8	4
33	Tunable spin-polarized correlated states in twisted double bilayer graphene. <i>Nature</i> , 2020, 583, 221-225.	27.8	385
34	Controlling Excitons in an Atomically Thin Membrane with a Mirror. <i>Physical Review Letters</i> , 2020, 124, 027401.	7.8	55
35	Nano-photocurrent Mapping of Local Electronic Structure in Twisted Bilayer Graphene. <i>Nano Letters</i> , 2020, 20, 2958-2964.	9.1	34
36	30°-Twisted Bilayer Graphene Quasicrystals from Chemical Vapor Deposition. <i>Nano Letters</i> , 2020, 20, 3313-3319.	9.1	60

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37	Strongly adhesive dry transfer technique for van der Waals heterostructure. 2D Materials, 2020, 7, 041005.	4.4	38
38	Thin films heteroepitaxially grown on Bi_2Se_3 Spatially correlated incommensurate lattice modulations in an atomically thin high-temperature Physical Review Materials, 2020, 4, .	2.4	2
39	Bi_2O_8 Physical Review Materials, 2020, 4, .	2.1	1
40	Fractional Quantum Hall Effects in Graphene. , 2020, , 317-375.		7
41	Asymmetric photoelectric effect: Auger-assisted hot hole photocurrents in transition metal dichalcogenides. Nanophotonics, 2020, 10, 105-113.	6.0	2
42	Imaging the flow of holes from a collimating contact in graphene. Semiconductor Science and Technology, 2020, 35, 09LT02.	2.0	1
43	Electrical control of interlayer exciton dynamics in atomically thin heterostructures. Science, 2019, 366, 870-875.	12.6	255
44	Microstructure Effect on LaPtBi Superconductivity. Microscopy and Microanalysis, 2019, 25, 948-949.	0.4	0
45	Liquid Salt Transport Growth of Single Crystals of the Layered Dichalcogenides MoS_2 and WS_2 . Crystal Growth and Design, 2019, 19, 5762-5767.	3.0	16
46	Polariton nanophotonics using phase-change materials. Nature Communications, 2019, 10, 4487.	12.8	106
47	Electrically Tunable Exciton-Plasmon Coupling in a WSe_2 Monolayer Embedded in a Plasmonic Crystal Cavity. Nano Letters, 2019, 19, 3543-3547.	9.1	32
48	Sign-Reversing Hall Effect in Atomically Thin High-Temperature Bi_2Te_3 Physical Review Letters, 2019, 122, 247001.	7.8	57
49	Interlayer fractional quantum Hall effect in a coupled graphene double layer. Nature Physics, 2019, 15, 893-897.	16.7	53
50	Atomic and electronic reconstruction at the van der Waals interface in twisted bilayer graphene. Nature Materials, 2019, 18, 448-453.	27.5	454
51	Graphene transistor based on tunable Dirac fermion optics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6575-6579.	7.1	34
52	Tunneling Spectroscopy of Quantum Hall States in Bilayer Graphene $p\text{-}n$ Junctions. Physical Review Letters, 2019, 122, 146801.	7.8	7
53	Engineering phonon polaritons in van der Waals heterostructures to enhance in-plane optical anisotropy. Science Advances, 2019, 5, eaau7171.	10.3	71
54	Theory of correlated insulating behaviour and spin-triplet superconductivity in twisted double bilayer graphene. Nature Communications, 2019, 10, 5333.	12.8	171

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55	Guiding Dirac Fermions in Graphene with a Carbon Nanotube. <i>Physical Review Letters</i> , 2019, 123, 216804.	7.8	27
56	Single Crystals of Electrically Conductive Two-Dimensional Metal-Organic Frameworks: Structural and Electrical Transport Properties. <i>ACS Central Science</i> , 2019, 5, 1959-1964.	11.3	211
57	Impact of geometry and non-idealities on electron optoelectronics-based graphene p-n junction devices. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	17
58	Electron-phonon instability in graphene revealed by global and local noise probes. <i>Science</i> , 2019, 364, 154-157.	12.6	47
59	Polariton Meta-Optics with Phase-Change Materials. , 2019, , .		0
60	Reconfigurable mid-infrared optical elements using phase change materials. , 2019, , .		1
61	Logarithmic singularities and quantum oscillations in magnetically doped topological insulators. <i>Physical Review B</i> , 2018, 97, .	3.2	4
62	Guided Modes of Anisotropic van der Waals Materials Investigated by near-Field Scanning Optical Microscopy. <i>ACS Photonics</i> , 2018, 5, 1196-1201.	6.6	15
63	Large Excitonic Reflectivity of Monolayer MoSe_2 in Hexagonal Boron Nitride. <i>Physical Review Letters</i> , 2018, 120, 037402.	7.8	165
64	Controlled Electrochemical Intercalation of Graphene/h-BN van der Waals Heterostructures. <i>Nano Letters</i> , 2018, 18, 460-466.	9.1	49
65	Electrical control of charged carriers and excitons in atomically thin materials. <i>Nature Nanotechnology</i> , 2018, 13, 128-132.	31.5	142
66	Imaging electron flow from collimating contacts in graphene. <i>2D Materials</i> , 2018, 5, 021003.	4.4	13
67	Signatures of long-range-correlated disorder in the magnetotransport of ultrathin topological insulators. <i>Physical Review B</i> , 2018, 98, .	3.2	16
68	Photonic crystals for nano-light in moiré graphene superlattices. <i>Science</i> , 2018, 362, 1153-1156.	12.6	273
69	Imaging quantum dot formation in MoS_2 nanostructures. <i>Nanotechnology</i> , 2018, 29, 42LT03.	2.6	6
70	Dirac electrons in a dodecagonal graphene quasicrystal. <i>Science</i> , 2018, 361, 782-786.	12.6	223
71	Selective excitation and imaging of ultraslow phonon polaritons in thin hexagonal boron nitride crystals. <i>Light: Science and Applications</i> , 2018, 7, 27.	16.6	75
72	Band structure engineering of 2D materials using patterned dielectric superlattices. <i>Nature Nanotechnology</i> , 2018, 13, 566-571.	31.5	157

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73	Measuring the Local Twist Angle and Layer Arrangement in Van der Waals Heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1800191.	1.5	11
74	Valleytronics: Opportunities, Challenges, and Paths Forward. <i>Small</i> , 2018, 14, e1801483.	10.0	221
75	Ultra-confined mid-infrared resonant phonon polaritons in van der Waals nanostructures. <i>Science Advances</i> , 2018, 4, eaat7189.	10.3	100
76	Heterointerface effects in the electrointercalation of van der Waals heterostructures. <i>Nature</i> , 2018, 558, 425-429.	27.8	184
77	Imaging of Ultra-Confined Phonon Polaritons in Hexagonal Boron Nitride on Gold. , 2018, , .		1
78	New nano-photonics based on vdW materials. , 2018, , .		0
79	Magnetic resonance spectroscopy of an atomically thin material using a single-spin qubit. <i>Science</i> , 2017, 355, 503-507.	12.6	110
80	Frank's van der Merwe Growth versus Volmer-Weber Growth in Successive Stacking of a Few-Layer Bi ₂ Te ₃ /Sb ₂ Te ₃ by van der Waals Heteroepitaxy: The Critical Roles of Finite Lattice Mismatch with Seed Substrates. <i>Advanced Electronic Materials</i> , 2017, 3, 1600375.	5.1	25
81	Unbalanced Hole and Electron Diffusion in Lead Bromide Perovskites. <i>Nano Letters</i> , 2017, 17, 1727-1732.	9.1	100
82	Holography of the Dirac Fluid in Graphene with Two Currents. <i>Physical Review Letters</i> , 2017, 118, 036601.	7.8	39
83	Analysis of Scanned Probe Images for Magnetic Focusing in Graphene. <i>Journal of Electronic Materials</i> , 2017, 46, 3837-3841.	2.2	6
84	Epitaxially Self-Assembled Alkane Layers for Graphene Electronics. <i>Advanced Materials</i> , 2017, 29, 1603925.	21.0	24
85	Quantum Hall drag of exciton condensate in Graphene. <i>Nature Physics</i> , 2017, 13, 746-750.	16.7	173
86	Inducing superconducting correlation in quantum Hall edge states. <i>Nature Physics</i> , 2017, 13, 693-698.	16.7	132
87	Plasmon Reflections by Topological Electronic Boundaries in Bilayer Graphene. <i>Nano Letters</i> , 2017, 17, 7080-7085.	9.1	48
88	Graphene-Based Josephson-Junction Single-Photon Detector. <i>Physical Review Applied</i> , 2017, 8, .	3.8	74
89	Imaging Electron Motion in a Few Layer MoS ₂ Device. <i>Journal of Physics: Conference Series</i> , 2017, 864, 012031.	0.4	4
90	Mechanical Detection and Imaging of Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride. <i>ACS Nano</i> , 2017, 11, 8741-8746.	14.6	48

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91	Frictional Magneto-Coulomb Drag in Graphene Double-Layer Heterostructures. Physical Review Letters, 2017, 119, 056802.	7.8	20
92	Single Electron Transistor with Single Aromatic Ring Molecule Covalently Connected to Graphene Nanogaps. Nano Letters, 2017, 17, 5335-5341.	9.1	50
93	Phonon Speed, Not Scattering, Differentiates Thermal Transport in Lead Halide Perovskites. Nano Letters, 2017, 17, 5734-5739.	9.1	94
94	Curved paths of electron-hole pairs. Nature Materials, 2017, 16, 1169-1170.	27.5	2
95	Probing dark excitons in atomically thin semiconductors via near-field coupling to surface plasmon polaritons. Nature Nanotechnology, 2017, 12, 856-860.	31.5	270
96	Low-Temperature Ohmic Contact to Monolayer MoS ₂ by van der Waals Bonded Co ₂ h</i>-BN Electrodes. Nano Letters, 2017, 17, 4781-4786.	9.1	233
97	Thermal Transport Signatures of Broken-Symmetry Phases in Graphene. Physical Review Letters, 2017, 119, 027601.	7.8	11
98	Graphene and Relativistic Quantum Physics. Progress in Mathematical Physics, 2017, , 1-23.	0.4	4
99	Mapping Periodic Lattice Distortions in Exfoliated Dichalcogenides with Atomic Resolution cryo-STEM. Microscopy and Microanalysis, 2016, 22, 1550-1551.	0.4	0
100	Thickness and Stacking Sequence Determination of Exfoliated Dichalcogenides Using Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 1456-1457.	0.4	0
101	Electric field effect thermoelectric transport in individual silicon and germanium/silicon nanowires. Journal of Applied Physics, 2016, 119, .	2.5	23
102	Two-dimensional van der Waals materials. Physics Today, 2016, 69, 38-44.	0.3	381
103	Li Intercalation into Graphite: Direct Optical Imaging and Cahn-Hilliard Reaction Dynamics. Journal of Physical Chemistry Letters, 2016, 7, 2151-2156.	4.6	92
104	Patterning Superatom Dopants on Transition Metal Dichalcogenides. Nano Letters, 2016, 16, 3385-3389.	9.1	47
105	Atomic lattice disorder in charge-density-wave phases of exfoliated dichalcogenides (1T-TaS) ₂ . Physical Review Letters, 2016, 116, 11420-11424.	7.1	86
106	Molecular beam epitaxial growth and electronic transport properties of high quality topological insulator Bi ₂ Se ₃ thin films on hexagonal boron nitride. 2D Materials, 2016, 3, 035029.	4.4	24
107	Transport in inhomogeneous quantum critical fluids and in the Dirac fluid in graphene. Physical Review B, 2016, 93, .	3.2	149
108	Enhanced Thermoelectric Power in Graphene: Violation of the Mott Relation by Inelastic Scattering. Physical Review Letters, 2016, 116, 136802.	7.8	142

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109	Ambipolar transport and magneto-resistance crossover in a Mott insulator, Sr ₂ IrO ₄ . Journal of Physics Condensed Matter, 2016, 28, 505304.	1.8	14
110	Study of Graphene-based 2D-Heterostructure Device Fabricated by All-Dry Transfer Process. ACS Applied Materials & Interfaces, 2016, 8, 3072-3078.	8.0	48
111	Modulation of mechanical resonance by chemical potential oscillation in graphene. Nature Physics, 2016, 12, 240-244.	16.7	47
112	Nature of the quantum metal in a two-dimensional crystalline superconductor. Nature Physics, 2016, 12, 208-212.	16.7	228
113	Specular interband Andreev reflections at van der Waals interfaces between graphene and NbSe ₂ . Nature Physics, 2016, 12, 328-332.	16.7	159
114	Observation of the Dirac fluid and the breakdown of the Wiedemann-Franz law in graphene. Science, 2016, 351, 1058-1061.	12.6	491
115	Imaging Cyclotron Orbits of Electrons in Graphene. Nano Letters, 2016, 16, 1690-1694.	9.1	68
116	van der Waals Solids from Self-Assembled Nanoscale Building Blocks. Nano Letters, 2016, 16, 1445-1449.	9.1	56
117	Oxygen-activated growth and bandgap tunability of large single-crystal bilayer graphene. Nature Nanotechnology, 2016, 11, 426-431.	31.5	287
118	Optical characterization of van der Waals materials via near-field microscopy. , 2016, , .		0
119	Tunable electronic correlation effects in nanotube-light interactions. Physical Review B, 2015, 92, .	3.2	13
120	Development of high frequency and wide bandwidth Johnson noise thermometry. Applied Physics Letters, 2015, 106, .	3.3	31
121	Photocurrent gain in graphene-silicon p-i-n junction. , 2015, , .		0
122	Dopant Segregation in Polycrystalline Monolayer Graphene. Nano Letters, 2015, 15, 1428-1436.	9.1	19
123	Diameter-dependent thermoelectric figure of merit in single-crystalline Bi nanowires. Nanoscale, 2015, 7, 5053-5059.	5.6	55
124	Landau Level Spectroscopy of Electron-Electron Interactions in Graphene. Physical Review Letters, 2015, 114, 126804.	7.8	52
125	Tunable Electrical and Optical Characteristics in Monolayer Graphene and Few-Layer MoS ₂ Heterostructure Devices. Nano Letters, 2015, 15, 5017-5024.	9.1	150
126	Electric field effects in graphene/LaAlO ₃ /SrTiO ₃ heterostructures and nanostructures. APL Materials, 2015, 3, 062502.	5.1	17

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127	Highly Stable, Dual-Gated MoS ₂ Transistors Encapsulated by Hexagonal Boron Nitride with Gate-Controllable Contact, Resistance, and Threshold Voltage. ACS Nano, 2015, 9, 7019-7026.	14.6	331
128	A Material Framework for Beyond-CMOS Devices. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2015, 1, 19-27.	1.5	3
129	Multi-terminal transport measurements of MoS ₂ using a van der Waals heterostructure device platform. Nature Nanotechnology, 2015, 10, 534-540.	31.5	1,099
130	Ultraclean Patterned Transfer of Single-Layer Graphene by Recyclable Pressure Sensitive Adhesive Films. Nano Letters, 2015, 15, 3236-3240.	9.1	101
131	Chemically Modulated Band Gap in Bilayer Graphene Memory Transistors with High On/Off Ratio. ACS Nano, 2015, 9, 9034-9042.	14.6	56
132	Structure and control of charge density waves in two-dimensional 1T-TaS ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15054-15059.	7.1	205
133	Flexible Electronics: Flexible and Transparent Gas Molecule Sensor Integrated with Sensing and Heating Graphene Layers (Small 18/2014). Small, 2014, 10, 3812-3812.	10.0	7
134	Weak antilocalization and conductance fluctuation in a single crystalline Bi nanowire. Applied Physics Letters, 2014, 104, .	3.3	27
135	Experimental Manifestation of Berry Phase in Graphene. Nanoscience and Technology, 2014, , 3-27.	1.5	2
136	Epitaxial Growth of Molecular Crystals on van der Waals Substrates for High-Performance Organic Electronics. Advanced Materials, 2014, 26, 2812-2817.	21.0	120
137	Flexible and Transparent Gas Molecule Sensor Integrated with Sensing and Heating Graphene Layers. Small, 2014, 10, 3685-3691.	10.0	142
138	Ferromagnetic Ordering in Superatomic Solids. Journal of the American Chemical Society, 2014, 136, 16926-16931.	13.7	58
139	Heterostructures based on inorganic and organic van der Waals systems. APL Materials, 2014, 2, .	5.1	57
140	Electronic transport in nanoparticle monolayers sandwiched between graphene electrodes. Nanoscale, 2014, 6, 14158-14162.	5.6	8
141	Atomically thin p-n junctions with van der Waals heterointerfaces. Nature Nanotechnology, 2014, 9, 676-681.	31.5	1,953
142	Graphene nanoribbon devices at high bias. Nano Convergence, 2014, 1, 1.	12.1	84
143	Organic Field Effect Transistors Based on Graphene and Hexagonal Boron Nitride Heterostructures. Advanced Functional Materials, 2014, 24, 5157-5163.	14.9	64
144	Tunable fractional quantum Hall phases in bilayer graphene. Science, 2014, 345, 61-64.	12.6	137

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145	Measurement of collective dynamical mass of Dirac fermions in graphene. Nature Nanotechnology, 2014, 9, 594-599.	31.5	53
146	Plasmonics with two-dimensional conductors. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130104.	3.4	19
147	Direct Imaging of Charged Impurity Density in Common Graphene Substrates. Nano Letters, 2013, 13, 3576-3580.	9.1	70
148	Flexible and Transparent MoS ₂ Field-Effect Transistors on Hexagonal Boron Nitride-Graphene Heterostructures. ACS Nano, 2013, 7, 7931-7936.	14.6	947
149	One-Dimensional Electrical Contact to a Two-Dimensional Material. Science, 2013, 342, 614-617.	12.6	2,236
150	The Role of Surface Oxygen in the Growth of Large Single-Crystal Graphene on Copper. Science, 2013, 342, 720-723.	12.6	977
151	Shape-dependent two-photon absorption in two-dimensionally extended benzoporphyrin arrays. Physical Chemistry Chemical Physics, 2013, 15, 10612.	2.8	16
152	Evidence for a spin phase transition at charge neutrality in bilayer graphene. Nature Physics, 2013, 9, 154-158.	16.7	138
153	Electrically integrated SU-8 clamped graphene drum resonators for strain engineering. Applied Physics Letters, 2013, 102, 153101.	3.3	67
154	Controlled charge trapping by molybdenum disulphide and graphene in ultrathin heterostructured memory devices. Nature Communications, 2013, 4, 1624.	12.8	595
155	Graphene Field-Effect Transistors Based on Boron Nitride Dielectrics. Proceedings of the IEEE, 2013, 101, 1609-1619.	21.3	137
156	Nanoscale Atoms in Solid-State Chemistry. Science, 2013, 341, 157-160.	12.6	199
157	Hofstadter's butterfly and the fractal quantum Hall effect in moiré superlattices. Nature, 2013, 497, 598-602.	27.8	1,404
158	Magnetoresistance Measurements of Graphene at the Charge Neutrality Point. Physical Review Letters, 2012, 108, 106804.	7.8	87
159	All-optical structure assignment of individual single-walled carbon nanotubes from Rayleigh and Raman scattering measurements. Physica Status Solidi (B): Basic Research, 2012, 249, 2436-2441.	1.5	10
160	Graphene based heterostructures. Solid State Communications, 2012, 152, 1275-1282.	1.9	184
161	Renormalization of the Graphene Dispersion Velocity Determined from Scanning Tunneling Spectroscopy. Physical Review Letters, 2012, 109, 116802.	7.8	86
162	Electronic compressibility of layer-polarized bilayer graphene. Physical Review B, 2012, 85, .	3.2	121

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163	Water-Gated Charge Doping of Graphene Induced by Mica Substrates. Nano Letters, 2012, 12, 648-654.	9.1	166
164	Graphene Barristor, a Triode Device with a Gate-Controlled Schottky Barrier. Science, 2012, 336, 1140-1143.	12.6	862
165	Spin and valley quantum Hall ferromagnetism in Graphene. Nature Physics, 2012, 8, 550-556.	16.7	307
166	Large Physisorption Strain in Chemical Vapor Deposition of Graphene on Copper Substrates. Nano Letters, 2012, 12, 2408-2413.	9.1	122
167	Connecting Dopant Bond Type with Electronic Structure in N-Doped Graphene. Nano Letters, 2012, 12, 4025-4031.	9.1	471
168	Tailoring Electrical Transport Across Grain Boundaries in Polycrystalline Graphene. Science, 2012, 336, 1143-1146.	12.6	535
169	Terahertz detection mechanism and contact capacitance of individual metallic single-walled carbon nanotubes. Applied Physics Letters, 2012, 100, 163503.	3.3	25
170	Single-Gate Bandgap Opening of Bilayer Graphene by Dual Molecular Doping. Advanced Materials, 2012, 24, 407-411.	21.0	228
171	Toward carbon based quantum electronics: Quantum transport in graphene heterojunctions. , 2011, , .		1
172	Nanocrystalline Graphite Growth on Sapphire by Carbon Molecular Beam Epitaxy. Journal of Physical Chemistry C, 2011, 115, 4491-4494.	3.1	113
173	Synthesis and Electrical Characterization of Magnetic Bilayer Graphene Intercalate. Nano Letters, 2011, 11, 860-865.	9.1	92
174	Thermoelectric properties of individual single-crystalline PbTe nanowires grown by a vapor transport method. Nanotechnology, 2011, 22, 295707.	2.6	27
175	High-resolution spatial mapping of the temperature distribution of a Joule self-heated graphene nanoribbon. Applied Physics Letters, 2011, 99, .	3.3	62
176	Measurement of the $\frac{1}{2}$ Quantum Hall Energy Gap in Suspended Graphene. Physical Review Letters, 2011, 106, 046801.	16.8	77
177	Visualizing Individual Nitrogen Dopants in Monolayer Graphene. Science, 2011, 333, 999-1003.	12.6	774
178	Single-layer graphene cathodes for organic photovoltaics. Applied Physics Letters, 2011, 98, .	3.3	60
179	Channel Length Scaling in Graphene Field-Effect Transistors Studied with Pulsed Current-Voltage Measurements. Nano Letters, 2011, 11, 1093-1097.	9.1	135
180	Multiband transport in bilayer graphene at high carrier densities. Physical Review B, 2011, 84, .	3.2	30

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181	Raman Spectroscopy of Lithographically Patterned Graphene Nanoribbons. ACS Nano, 2011, 5, 4123-4130.	14.6	148
182	Making angle-resolved photoemission measurements on corrugated monolayer crystals: Suspended exfoliated single-crystal graphene. Physical Review B, 2011, 84, .	3.2	47
183	Collapse of Landau Levels in Gated Graphene Structures. Physical Review Letters, 2011, 106, 066601.	7.8	48
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