James C Hone

List of Publications by Year
in descending order

499 papers	113,117 citations	733 124 h-index	164 330 g-index
519 all docs	519 docs citations	519 times ranked	79136 citing authors

#	Article	IF	Citations
1	Measurement of the Elastic Properties and Intrinsic Strength of Monolayer Graphene. Science, 2008, 321, 385-388.	6.0	17,513
2	Atomically Thin<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>: A New Direct-Gap Semiconductor. Physical Review Letters, 2010, 105, 136805.	2.9	12,565
3	Ultrahigh electron mobility in suspended graphene. Solid State Communications, 2008, 146, 351-355.	0.9	6,963
4	Boron nitride substrates for high-quality graphene electronics. Nature Nanotechnology, 2010, 5, 722-726.	15.6	5,794
5	Anomalous Lattice Vibrations of Single- and Few-Layer MoS₂. ACS Nano, 2010, 4, 2695-2700.	7.3	4,028
6	Tightly bound trions in monolayer MoS2. Nature Materials, 2013, 12, 207-211.	13.3	2,329
7	One-Dimensional Electrical Contact to a Two-Dimensional Material. Science, 2013, 342, 614-617.	6.0	2,236
8	Atomically thin pâ€“n junctions with van der Waals heterointerfaces. Nature Nanotechnology, 2014, 9, 676-681.	15.6	1,953
9	Grains and grain boundaries in highly crystalline monolayer molybdenum disulphide. Nature Materials, 2013, 12, 554-561.	13.3	1,896
10	Piezoelectricity of single-atomic-layer MoS2 for energy conversion and piezotronics. Nature, 2014, 514, 470-474.	13.7	1,762
11	Two-dimensional flexible nanoelectronics. Nature Communications, 2014, 5, 5678.	5.8	1,533
12	Frictional Characteristics of Atomically Thin Sheets. Science, 2010, 328, 76-80.	6.0	1,504
13	Hofstadterâ€™s butterfly and the fractal quantum Hall effect in moirÃ© superlattices. Nature, 2013, 497, 598-602.	13.7	1,404
14	Multi-terminal transport measurements of MoS2 using a van der Waals heterostructure device platform. Nature Nanotechnology, 2015, 10, 534-540.	15.6	1,099
15	Temperature-Dependent Transport in Suspended Graphene. Physical Review Letters, 2008, 101, 096802.	2.9	1,044
16	Thermal conductivity of single-walled carbon nanotubes. Physical Review B, 1999, 59, R2514-R2516.	1.1	1,042
17	Measurement of the optical dielectric function of monolayer transition-metal dichalcogenides:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>,<mml:math	1.1	1,017
18	The Role of Surface Oxygen in the Growth of Large Single-Crystal Graphene on Copper. Science, 2013, 342, 720-723.	6.0	977

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19	Chip-integrated ultrafast graphene photodetector with high responsivity. Nature Photonics, 2013, 7, 883-887.	15.6	971
20	Flexible and Transparent MoS₂ Field-Effect Transistors on Hexagonal Boron Nitride-Graphene Heterostructures. ACS Nano, 2013, 7, 7931-7936.	7.3	947
21	Performance of monolayer graphene nanomechanical resonators with electrical readout. Nature Nanotechnology, 2009, 4, 861-867.	15.6	847
22	Highly confined low-loss plasmons in grapheneâ€“boron nitride heterostructures. Nature Materials, 2015, 14, 421-425.	13.3	847
23	Electrical and thermal transport properties of magnetically aligned single wall carbon nanotube films. Applied Physics Letters, 2000, 77, 666-668.	1.5	775
24	High-Strength Chemical-Vaporâ€“Deposited Graphene and Grain Boundaries. Science, 2013, 340, 1073-1076.	6.0	753
25	Maximized electron interactions at the magic angle in twisted bilayer graphene. Nature, 2019, 572, 95-100.	13.7	644
26	Edge Nonlinear Optics on a MoS ₂ Atomic Monolayer. Science, 2014, 344, 488-490.	6.0	631
27	Controlled charge trapping by molybdenum disulphide and graphene in ultrathin heterostructured memory devices. Nature Communications, 2013, 4, 1624.	5.8	595
28	Phonon softening and crystallographic orientation of strained graphene studied by Raman spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7304-7308.	3.3	584
29	Effect of defects on the intrinsic strength and stiffness of graphene. Nature Communications, 2014, 5, 3186.	5.8	560
30	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. Nature Materials, 2020, 19, 861-866.	13.3	544
31	Coulomb engineering of the bandgap and excitons in two-dimensional materials. Nature Communications, 2017, 8, 15251.	5.8	526
32	Strengthening effect of single-atomic-layer graphene in metalâ€“graphene nanolayered composites. Nature Communications, 2013, 4, 2114.	5.8	520
33	Regenerative oscillation and four-wave mixing in graphene optoelectronics. Nature Photonics, 2012, 6, 554-559.	15.6	519
34	Electrostatically-generated nanofibers of electronic polymers. Synthetic Metals, 2001, 119, 27-30.	2.1	503
35	Quantized Phonon Spectrum of Single-Wall Carbon Nanotubes. Science, 2000, 289, 1730-1733.	6.0	471
36	The hot pick-up technique for batch assembly of van der Waals heterostructures. Nature Communications, 2016, 7, 11894.	5.8	446

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37	Thermal properties of carbon nanotubes and nanotube-based materials. Applied Physics A: Materials Science and Processing, 2002, 74, 339-343.	1.1	445
38	Measurement of mobility in dual-gated MoS2 transistors. Nature Nanotechnology, 2013, 8, 146-147.	15.6	443
39	Covalently Bridging Gaps in Single-Walled Carbon Nanotubes with Conducting Molecules. Science, 2006, 311, 356-359.	6.0	438
40	Direct Measurement of the Thickness-Dependent Electronic Band Structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Using Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2013, 111, 106801.	2.9	435
41	Electron tunneling through atomically flat and ultrathin hexagonal boron nitride. Applied Physics Letters, 2011, 99, .	1.5	425
42	In-Plane Anisotropy in Mono- and Few-Layer ReS₂ Probed by Raman Spectroscopy and Scanning Transmission Electron Microscopy. Nano Letters, 2015, 15, 5667-5672.	4.5	406
43	Multicomponent fractional quantum Hall effect inÂgraphene. Nature Physics, 2011, 7, 693-696.	6.5	405
44	Fundamental limits to graphene plasmonics. Nature, 2018, 557, 530-533.	13.7	401
45	Nonlinear elastic behavior of two-dimensional molybdenum disulfide. Physical Review B, 2013, 87, .	1.1	400
46	Valley Splitting and Polarization by the Zeeman Effect in Monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn>< Physical Review Letters, 2014, 113, 266804.	2.9	395
47	Disorder in van der Waals heterostructures of 2D materials. Nature Materials, 2019, 18, 541-549.	13.3	390
48	Twistable electronics with dynamically rotatable heterostructures. Science, 2018, 361, 690-693.	6.0	387
49	Chemical Vapor Deposition-Derived Graphene with Electrical Performance of Exfoliated Graphene. Nano Letters, 2012, 12, 2751-2756.	4.5	365
50	Probing Strain-Induced Electronic Structure Change in Graphene by Raman Spectroscopy. Nano Letters, 2010, 10, 4074-4079.	4.5	357
51	Transparent and Catalytic Carbon Nanotube Films. Nano Letters, 2008, 8, 982-987.	4.5	344
52	Elastic and frictional properties of graphene. Physica Status Solidi (B): Basic Research, 2009, 246, 2562-2567.	0.7	333
53	Highly Stable, Dual-Gated MoS₂ Transistors Encapsulated by Hexagonal Boron Nitride with Gate-Controllable Contact, Resistance, and Threshold Voltage. ACS Nano, 2015, 9, 7019-7026.	7.3	331
54	Evidence of high-temperature exciton condensation in two-dimensional atomic double layers. Nature, 2019, 574, 76-80.	13.7	331

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55	Electrical Tuning of Exciton Binding Energies in Monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m Physical Review Letters, 2015, 115, 126802.	2.9	323
56	MoirÃ© heterostructures as a condensed-matter quantum simulator. Nature Physics, 2021, 17, 155-163.	6.5	317
57	Magnetic brightening and control of dark excitons in monolayer WSe2. Nature Nanotechnology, 2017, 12, 883-888.	15.6	315
58	Correlated insulating states at fractional fillings of moirÃ© superlattices. Nature, 2020, 587, 214-218.	13.7	315
59	Ultrafast optical switching of infrared plasmon polaritons in high-mobility graphene. Nature Photonics, 2016, 10, 244-247.	15.6	312
60	Conductivity of a single DNA duplex bridging a carbon nanotube gap. Nature Nanotechnology, 2008, 3, 163-167.	15.6	308
61	Nanowire-based very-high-frequency electromechanical resonator. Applied Physics Letters, 2003, 83, 1240-1242.	1.5	307
62	Spin and valley quantum Hall ferromagnetism inÂgraphene. Nature Physics, 2012, 8, 550-556.	6.5	307
63	An ultrafast symmetry switch in a Weyl semimetal. Nature, 2019, 565, 61-66.	13.7	307
64	Strong interfacial exchange field in the graphene/EuS heterostructure. Nature Materials, 2016, 15, 711-716.	13.3	292
65	Oxygen-activated growth and bandgap tunability of large single-crystal bilayer graphene. Nature Nanotechnology, 2016, 11, 426-431.	15.6	287
66	Scaling of Resistance and Electron Mean Free Path of Single-Walled Carbon Nanotubes. Physical Review Letters, 2007, 98, 186808.	2.9	285
67	Bright visible light emission from graphene. Nature Nanotechnology, 2015, 10, 676-681.	15.6	284
68	Tailoring the Electronic Structure in Bilayer Molybdenum Disulfide via Interlayer Twist. Nano Letters, 2014, 14, 3869-3875.	4.5	278
69	Measurement of Lateral and Interfacial Thermal Conductivity of Single- and Bilayer MoS₂ and MoSe₂ Using Refined Optothermal Raman Technique. ACS Applied Materials & Interfaces, 2015, 7, 25923-25929.	4.0	275
70	Thermoelectric Power of Single-Walled Carbon Nanotubes. Physical Review Letters, 1998, 80, 1042-1045.	2.9	262
71	Disassembling 2D van der Waals crystals into macroscopic monolayers and reassembling into artificial lattices. Science, 2020, 367, 903-906.	6.0	262
72	Graphene mechanical oscillators with tunable frequency. Nature Nanotechnology, 2013, 8, 923-927.	15.6	259

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73	Acoustic terahertz graphene plasmons revealed by photocurrent nanoscopy. Nature Nanotechnology, 2017, 12, 31-35.	15.6	257
74	Photoconductivity of Self-Assembled Porphyrin Nanorods. Nano Letters, 2004, 4, 1261-1265.	4.5	253
75	Electron optics with p-n junctions in ballistic graphene. Science, 2016, 353, 1522-1525.	6.0	253
76	Tuning quantum nonlocal effects in graphene plasmonics. Science, 2017, 357, 187-191.	6.0	251
77	Strong Enhancement of Lightâ€“Matter Interaction in Graphene Coupled to a Photonic Crystal Nanocavity. Nano Letters, 2012, 12, 5626-5631.	4.5	248
78	Approaching the intrinsic photoluminescence linewidth in transition metal dichalcogenide monolayers. 2D Materials, 2017, 4, 031011.	2.0	242
79	Low-Temperature Ohmic Contact to Monolayer MoS₂ by van der Waals Bonded Co/<i>h</i>-BN Electrodes. Nano Letters, 2017, 17, 4781-4786.	4.5	233
80	Optical Spectroscopy of Individual Single-Walled Carbon Nanotubes of Defined Chiral Structure. Science, 2006, 312, 554-556.	6.0	231
81	Probing Electronic Transitions in Individual Carbon Nanotubes by Rayleigh Scattering. Science, 2004, 306, 1540-1543.	6.0	228
82	Nature of the quantum metal in a two-dimensional crystalline superconductor. Nature Physics, 2016, 12, 208-212.	6.5	228
83	Cells test substrate rigidity by local contractions on submicrometer pillars. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5328-5333.	3.3	227
84	Is the Intrinsic Thermoelectric Power of Carbon Nanotubes Positive?. Physical Review Letters, 2000, 85, 4361-4364.	2.9	222
85	Linearly Polarized Excitons in Single- and Few-Layer ReS₂ Crystals. ACS Photonics, 2016, 3, 96-101.	3.2	216
86	CD28 and CD3 have complementary roles in T-cell traction forces. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2241-2246.	3.3	211
87	Transitionâ€Metal Substitution Doping in Synthetic Atomically Thin Semiconductors. Advanced Materials, 2016, 28, 9735-9743.	11.1	208
88	Substrate effect on thicknessâ€dependent friction on graphene. Physica Status Solidi (B): Basic Research, 2010, 247, 2909-2914.	0.7	206
89	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.	3.3	205
90	Observation of Graphene Bubbles and Effective Mass Transport under Graphene Films. Nano Letters, 2009, 9, 332-337.	4.5	198

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91	Deterministic coupling of site-controlled quantum emitters in monolayer WSe2 to plasmonic nanocavities. Nature Nanotechnology, 2018, 13, 1137-1142.	15.6	198
92	Fabrication and electrical characterization of polyaniline-based nanofibers with diameter below 30 nm. Applied Physics Letters, 2003, 83, 3800-3802.	1.5	196
93	Controlling the spontaneous emission rate of monolayer MoS₂ in a photonic crystal nanocavity. Applied Physics Letters, 2013, 103, 181119.	1.5	194
94	Thermal conductivity of single-walled carbon nanotubes. Synthetic Metals, 1999, 103, 2498-2499.	2.1	189
95	Piezophototronic Effect in Singleâ€Atomicâ€Layer MoS₂ for Strainâ€Gated Flexible Optoelectronics. Advanced Materials, 2016, 28, 8463-8468.	11.1	187
96	Visualization of moirÃ© superlattices. Nature Nanotechnology, 2020, 15, 580-584.	15.6	187
97	High-Responsivity Grapheneâ€"Boron Nitride Photodetector and Autocorrelator in a Silicon Photonic Integrated Circuit. Nano Letters, 2015, 15, 7288-7293.	4.5	185
98	Graphene based heterostructures. Solid State Communications, 2012, 152, 1275-1282.	0.9	184
99	Energy Transfer from Quantum Dots to Graphene and MoS₂: The Role of Absorption and Screening in Two-Dimensional Materials. Nano Letters, 2016, 16, 2328-2333.	4.5	179
100	High-Contrast Electrooptic Modulation of a Photonic Crystal Nanocavity by Electrical Gating of Graphene. Nano Letters, 2013, 13, 691-696.	4.5	177
101	Excitonic superfluid phase in double bilayerÂgraphene. Nature Physics, 2017, 13, 751-755.	6.5	173
102	Interfacial Charge Transfer Circumventing Momentum Mismatch at Two-Dimensional van der Waals Heterojunctions. Nano Letters, 2017, 17, 3591-3598.	4.5	172
103	Transferred via contacts as a platform for ideal two-dimensional transistors. Nature Electronics, 2019, 2, 187-194.	13.1	172
104	Excitons in strain-induced one-dimensional moirÃ© potentials at transition metal dichalcogenide heterojunctions. Nature Materials, 2020, 19, 1068-1073.	13.3	169
105	Tropomyosin controls sarcomere-like contractions for rigidity sensing and suppressing growth on softÂmatrices. Nature Cell Biology, 2016, 18, 33-42.	4.6	168
106	Interfacial ferroelectricity in rhombohedral-stacked bilayer transition metal dichalcogenides. Nature Nanotechnology, 2022, 17, 367-371.	15.6	167
107	Modulation of Quantum Tunneling <i>via</i> a Vertical Two-Dimensional Black Phosphorus and Molybdenum Disulfide pâ€"n Junction. ACS Nano, 2017, 11, 9143-9150.	7.3	164
108	Quantum criticality in twisted transition metal dichalcogenides. Nature, 2021, 597, 345-349.	13.7	163

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109	Approaching the Intrinsic Limit in Transition Metal Diselenides via Point Defect Control. Nano Letters, 2019, 19, 4371-4379.	4.5	161
110	Chemical doping of individual semiconducting carbon-nanotube ropes. Physical Review B, 2000, 61, R10606-R10608.	1.1	159
111	Optical Third-Harmonic Generation in Graphene. Physical Review X, 2013, 3, .	2.8	159
112	Specular interband Andreev reflections at van der Waals interfaces between graphene and NbSe2. Nature Physics, 2016, 12, 328-332.	6.5	159
113	Carrierâ€Type Modulation and Mobility Improvement of Thin MoTe₂. Advanced Materials, 2017, 29, 1606433.	11.1	158
114	Evidence for a fractional fractal quantum Hall effect in graphene superlattices. Science, 2015, 350, 1231-1234.	6.0	155
115	Mott Insulating State in Ultraclean Carbon Nanotubes. Science, 2009, 323, 106-110.	6.0	151
116	Decoding Information in Cell Shape. Cell, 2013, 154, 1356-1369.	13.5	151
117	Effect of surface morphology on friction of graphene on various substrates. Nanoscale, 2013, 5, 3063.	2.8	148
118	High-Speed Electro-Optic Modulator Integrated with Graphene-Boron Nitride Heterostructure and Photonic Crystal Nanocavity. Nano Letters, 2015, 15, 2001-2005.	4.5	142
119	Thermoelectric detection and imaging of propagating grapheneÂplasmons. Nature Materials, 2017, 16, 204-207.	13.3	141
120	Low-loss composite photonic platform based on 2D semiconductor monolayers. Nature Photonics, 2020, 14, 256-262.	15.6	140
121	Evidence for a spin phase transition at charge neutrality in bilayer graphene. Nature Physics, 2013, 9, 154-158.	6.5	138
122	Graphene Field-Effect Transistors Based on Boronâ€“Nitride Dielectrics. Proceedings of the IEEE, 2013, 101, 1609-1619.	16.4	137
123	Tunable fractional quantum Hall phases in bilayer graphene. Science, 2014, 345, 61-64.	6.0	137
124	Stripe phases in WSe2/WS2 moirÃ© superlattices. Nature Materials, 2021, 20, 940-944.	13.3	137
125	Imaging strain-localized excitons in nanoscale bubbles of monolayer WSe2 at room temperature. Nature Nanotechnology, 2020, 15, 854-860.	15.6	134
126	Phonons and Thermal Properties of Carbon Nanotubes. , 2001, , 273-286.		133

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127	Efficient generation of neutral and charged biexcitons in encapsulated WSe2 monolayers. Nature Communications, 2018, 9, 3718.	5.8	133
128	Engineering the Structural and Electronic Phases of MoTe₂ through W Substitution. Nano Letters, 2017, 17, 1616-1622.	4.5	128
129	Tunable excitons in bilayer graphene. Science, 2017, 358, 907-910.	6.0	126
130	Spinâ€"orbit-driven band inversion in bilayer graphene by the van der Waals proximity effect. Nature, 2019, 571, 85-89.	13.7	126
131	Deep moirÃ© potentials in twisted transition metal dichalcogenide bilayers. Nature Physics, 2021, 17, 720-725.	6.5	124
132	Microfabrication and mechanical properties of nanoporous gold at the nanoscale. Scripta Materialia, 2007, 56, 437-440.	2.6	123
133	Large Physisorption Strain in Chemical Vapor Deposition of Graphene on Copper Substrates. Nano Letters, 2012, 12, 2408-2413.	4.5	122
134	Electronic compressibility of layer-polarized bilayer graphene. Physical Review B, 2012, 85, .	1.1	121
135	Epitaxial Growth of Molecular Crystals on van der Waals Substrates for Highâ€Performance Organic Electronics. Advanced Materials, 2014, 26, 2812-2817.	11.1	120
136	Thickness-dependent Schottky barrier height of MoS₂field-effect transistors. Nanoscale, 2017, 9, 6151-6157.	2.8	120
137	Graphene nanoelectromechanical systems. Proceedings of the IEEE, 2013, 101, 1766-1779.	16.4	119
138	Interactions between Individual Carbon Nanotubes Studied by Rayleigh Scattering Spectroscopy. Physical Review Letters, 2006, 96, 167401.	2.9	117
139	Graphene Field-Effect Transistors with Gigahertz-Frequency Power Gain on Flexible Substrates. Nano Letters, 2013, 13, 121-125.	4.5	117
140	Tunable crystal symmetry in grapheneâ€"boron nitride heterostructures with coexisting moirÃ© superlattices. Nature Nanotechnology, 2019, 14, 1029-1034.	15.6	114
141	Direct Measurement of the Tunable Electronic Structure of Bilayer MoS₂ by Interlayer Twist. Nano Letters, 2016, 16, 953-959.	4.5	113
142	Patterning metal contacts on monolayer MoS2 with vanishing Schottky barriers using thermal nanolithography. Nature Electronics, 2019, 2, 17-25.	13.1	113
143	Radio frequency electrical transduction of graphene mechanical resonators. Applied Physics Letters, 2010, 97, .	1.5	112
144	Flexible Graphene Field-Effect Transistors Encapsulated in Hexagonal Boron Nitride. ACS Nano, 2015, 9, 8953-8959.	7.3	112

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145	Recoverable Slippage Mechanism in Multilayer Graphene Leads to Repeatable Energy Dissipation. ACS Nano, 2016, 10, 1820-1828.	7.3	112
146	Electrical characterization of 2D materials-based field-effect transistors. 2D Materials, 2021, 8, 012002.	2.0	111
147	Ultrafast Graphene Light Emitters. Nano Letters, 2018, 18, 934-940.	4.5	109
148	A Fermiâ€Levelâ€Pinningâ€Free 1D Electrical Contact at the Intrinsic 2D MoS₂â€“Metal Junction. Advanced Materials, 2019, 31, e1808231.	11.1	108
149	FHOD1 Is Needed for Directed Forces and Adhesion Maturation during Cell Spreading and Migration. Developmental Cell, 2013, 27, 545-559.	3.1	107
150	Plasma Membrane Area Increases with Spread Area by Exocytosis of a GPI-anchored Protein Compartment. Molecular Biology of the Cell, 2009, 20, 3261-3272.	0.9	106
151	Low-Voltage Organic Electronics Based on a Gate-Tunable Injection Barrier in Vertical graphene-organic Semiconductor Heterostructures. Nano Letters, 2015, 15, 69-74.	4.5	105
152	Nanomechanical hydrogen sensing. Applied Physics Letters, 2005, 86, 143104.	1.5	103
153	Force generated by actomyosin contraction builds bridges between adhesive contacts. EMBO Journal, 2010, 29, 1055-1068.	3.5	102
154	Real-Time Monitoring of Insulin Using a Graphene Field-Effect Transistor Aptameric Nanosensor. ACS Applied Materials & Interfaces, 2017, 9, 27504-27511.	4.0	102
155	Ultraclean Patterned Transfer of Single-Layer Graphene by Recyclable Pressure Sensitive Adhesive Films. Nano Letters, 2015, 15, 3236-3240.	4.5	101
156	Cardiomyocytes Sense Matrix Rigidity through a Combination of Muscle and Non-muscle Myosin Contractions. Developmental Cell, 2018, 44, 326-336.e3.	3.1	101
157	Inking Elastomeric Stamps with Microâ€Patterned, Single Layer Graphene to Create Highâ€Performance OFETs. Advanced Materials, 2011, 23, 3531-3535.	11.1	100
158	Transport properties of a potassium-doped single-wall carbon nanotube rope. Physical Review B, 2000, 61, 4526-4529.	1.1	99
159	Variable Electron-Phonon Coupling in Isolated Metallic Carbon Nanotubes Observed by Raman Scattering. Physical Review Letters, 2007, 99, 027402.	2.9	98
160	Negligible Environmental Sensitivity of Graphene in a Hexagonal Boron Nitride/Graphene/h-BN Sandwich Structure. ACS Nano, 2012, 6, 9314-9319.	7.3	98
161	Optical conductivity-based ultrasensitive mid-infrared biosensing on a hybrid metasurface. Light: Science and Applications, 2018, 7, 67.	7.7	98
162	Electrothermal tuning of Alâ€“SiC nanomechanical resonators. Nanotechnology, 2006, 17, 1506-1511.	1.3	96

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163	Graphene growth on h-BN by molecular beam epitaxy. Solid State Communications, 2012, 152, 975-978.	0.9	92
164	Magnetism in semiconducting molybdenum dichalcogenides. Science Advances, 2018, 4, eaat3672.	4.7	92
165	Even-denominator fractional quantum Hall states in bilayer graphene. Science, 2017, 358, 648-652.	6.0	90
166	Monolayer Molybdenum Disulfide Transistors with Single-Atom-Thick Gates. Nano Letters, 2018, 18, 3807-3813.	4.5	88
167	Purcell-enhanced quantum yield from carbon nanotube excitons coupled to plasmonic nanocavities. Nature Communications, 2017, 8, 1413.	5.8	87
168	Renormalization of the Graphene Dispersion Velocity Determined from Scanning Tunneling Spectroscopy. Physical Review Letters, 2012, 109, 116802.	2.9	86
169	Limits of Carrier Diffusion in <i>n</i>-Type and <i>p</i>-Type CH₃NH₃PbI₃ Perovskite Single Crystals. Journal of Physical Chemistry Letters, 2016, 7, 3510-3518.	2.1	86
170	Terahertz Nanofocusing with Cantilevered Terahertz-Resonant Antenna Tips. Nano Letters, 2017, 17, 6526-6533.	4.5	84
171	Cobalt Ultrathin Film Catalyzed Ethanol Chemical Vapor Deposition of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2006, 110, 11103-11109.	1.2	83
172	Determination of the Youngâ€™s Modulus of Structurally Defined Carbon Nanotubes. Nano Letters, 2008, 8, 4158-4161.	4.5	83
173	Negative Coulomb Drag in Double Bilayer Graphene. Physical Review Letters, 2016, 117, 046802.	2.9	83
174	Controlled Placement of Individual Carbon Nanotubes. Nano Letters, 2005, 5, 1515-1518.	4.5	80
175	Near-field photocurrent nanoscopy on bare and encapsulated graphene. Nature Communications, 2016, 7, 10783.	5.8	80
176	Influence of the substrate material on the optical properties of tungsten diselenide monolayers. 2D Materials, 2017, 4, 025045.	2.0	80
177	Optical generation of high carrier densities in 2D semiconductor heterobilayers. Science Advances, 2019, 5, eaax0145.	4.7	80
178	Thermal radiation control from hot graphene electrons coupled to a photonic crystal nanocavity. Nature Communications, 2019, 10, 109.	5.8	79
179	Electrically Driven Reversible Phase Changes in Layered In₂Se₃ Crystalline Film. Advanced Materials, 2017, 29, 1703568.	11.1	77
180	Nanobubble induced formation of quantum emitters in monolayer semiconductors. 2D Materials, 2017, 4, 021019.	2.0	76

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181	Tuning Many-Body Interactions in Graphene: The Effects of Doping on Excitons and Carrier Lifetimes. Physical Review Letters, 2014, 112, .	2.9	74
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