

Takashi Taniguchi

List of Publications by Year in descending order

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1,575
papers

145,935
citations

81

170
h-index

145

328
g-index

1641
all docs

1641
docs citations

1641
times ranked

50623
citing authors

#	ARTICLE	IF	CITATIONS
1	Boron nitride substrates for high-quality graphene electronics. <i>Nature Nanotechnology</i> , 2010, 5, 722-726.	15.6	5,794
2	Unconventional superconductivity in magic-angle graphene superlattices. <i>Nature</i> , 2018, 556, 43-50.	13.7	5,221
3	Correlated insulator behaviour at half-filling in magic-angle graphene superlattices. <i>Nature</i> , 2018, 556, 80-84.	13.7	3,086
4	Direct-bandgap properties and evidence for ultraviolet lasing of hexagonal boron nitride single crystal. <i>Nature Materials</i> , 2004, 3, 404-409.	13.3	2,510
5	One-Dimensional Electrical Contact to a Two-Dimensional Material. <i>Science</i> , 2013, 342, 614-617.	6.0	2,236
6	Tuning superconductivity in twisted bilayer graphene. <i>Science</i> , 2019, 363, 1059-1064.	6.0	1,460
7	Micrometer-Scale Ballistic Transport in Encapsulated Graphene at Room Temperature. <i>Nano Letters</i> , 2011, 11, 2396-2399.	4.5	1,440
8	Electrically tunable excitonic light-emitting diodes based on monolayer WSe ₂ p-n junctions. <i>Nature Nanotechnology</i> , 2014, 9, 268-272.	15.6	1,434
9	Hofstadter's butterfly and the fractal quantum Hall effect in moiré superlattices. <i>Nature</i> , 2013, 497, 598-602.	13.7	1,404
10	Light-emitting diodes by band-structure engineering in van der Waals heterostructures. <i>Nature Materials</i> , 2015, 14, 301-306.	13.3	1,397
11	Massive Dirac Fermions and Hofstadter Butterfly in a van der Waals Heterostructure. <i>Science</i> , 2013, 340, 1427-1430.	6.0	1,392
12	Scanning tunnelling microscopy and spectroscopy of ultra-flat graphene on hexagonal boron nitride. <i>Nature Materials</i> , 2011, 10, 282-285.	13.3	1,157
13	Emergent ferromagnetism near three-quarters filling in twisted bilayer graphene. <i>Science</i> , 2019, 365, 605-608.	6.0	1,106
14	Multi-terminal transport measurements of MoS ₂ using a van der Waals heterostructure device platform. <i>Nature Nanotechnology</i> , 2015, 10, 534-540.	15.6	1,099
15	Deep Ultraviolet Light-Emitting Hexagonal Boron Nitride Synthesized at Atmospheric Pressure. <i>Science</i> , 2007, 317, 932-934.	6.0	1,060
16	Superconductors, orbital magnets and correlated states in magic-angle bilayer graphene. <i>Nature</i> , 2019, 574, 653-657.	13.7	987
17	Tunable Phonon Polaritons in Atomically Thin van der Waals Crystals of Boron Nitride. <i>Science</i> , 2014, 343, 1125-1129.	6.0	957
18	Emergence of superlattice Dirac points in graphene on hexagonal boron nitride. <i>Nature Physics</i> , 2012, 8, 382-386.	6.5	956

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19	Hunting for Monolayer Boron Nitride: Optical and Raman Signatures. <i>Small</i> , 2011, 7, 465-468.	5.2	950
20	Flexible and Transparent MoS ₂ Field-Effect Transistors on Hexagonal Boron Nitride-Graphene Heterostructures. <i>ACS Nano</i> , 2013, 7, 7931-7936.	7.3	947
21	Evidence for moiré excitons in van der Waals heterostructures. <i>Nature</i> , 2019, 567, 71-75.	13.7	933
22	Epitaxial growth of single-domain graphene on hexagonal boron nitride. <i>Nature Materials</i> , 2013, 12, 792-797.	13.3	882
23	Hot Carrier-Assisted Intrinsic Photoresponse in Graphene. <i>Science</i> , 2011, 334, 648-652.	6.0	876
24	Giant tunneling magnetoresistance in spin-filter van der Waals heterostructures. <i>Science</i> , 2018, 360, 1214-1218.	6.0	871
25	Highly confined low-loss plasmons in graphene-boron nitride heterostructures. <i>Nature Materials</i> , 2015, 14, 421-425.	13.3	847
26	Intrinsic quantized anomalous Hall effect in a moiré heterostructure. <i>Science</i> , 2020, 367, 900-903.	6.0	844
27	Observation of moiré excitons in WSe ₂ /WS ₂ heterostructure superlattices. <i>Nature</i> , 2019, 567, 76-80.	13.7	791
28	Commensurate-incommensurate transition in graphene on hexagonal boron nitride. <i>Nature Physics</i> , 2014, 10, 451-456.	6.5	737
29	Sub-diffractive volume-confined polaritons in the natural hyperbolic material hexagonal boron nitride. <i>Nature Communications</i> , 2014, 5, 5221.	5.8	686
30	Probing magnetism in 2D van der Waals crystalline insulators via electron tunneling. <i>Science</i> , 2018, 360, 1218-1222.	6.0	668
31	Maximized electron interactions at the magic angle in twisted bilayer graphene. <i>Nature</i> , 2019, 572, 95-100.	13.7	644
32	Ultra-high-mobility graphene devices from chemical vapor deposition on reusable copper. <i>Science Advances</i> , 2015, 1, e1500222.	4.7	635
33	Van der Waals engineering of ferromagnetic semiconductor heterostructures for spin and valleytronics. <i>Science Advances</i> , 2017, 3, e1603113.	4.7	635
34	Strong Oxidation Resistance of Atomically Thin Boron Nitride Nanosheets. <i>ACS Nano</i> , 2014, 8, 1457-1462.	7.3	633
35	Anomalously low dielectric constant of confined water. <i>Science</i> , 2018, 360, 1339-1342.	6.0	627
36	Direct observation of the layer-dependent electronic structure in phosphorene. <i>Nature Nanotechnology</i> , 2017, 12, 21-25.	15.6	625

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37	Resonantly hybridized excitons in moiré superlattices in van der Waals heterostructures. <i>Nature</i> , 2019, 567, 81-86.	13.7	621
38	Observation of the quantum spin Hall effect up to 100 kelvin in a monolayer crystal. <i>Science</i> , 2018, 359, 76-79.	6.0	613
39	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. <i>Nature Communications</i> , 2017, 8, 15815.	5.8	576
40	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. <i>Nature Materials</i> , 2020, 19, 861-866.	13.3	544
41	Mott and generalized Wigner crystal states in WSe ₂ /WS ₂ moiré superlattices. <i>Nature</i> , 2020, 579, 359-363.	13.7	536
42	Graphene on hexagonal boron nitride as a tunable hyperbolic metamaterial. <i>Nature Nanotechnology</i> , 2015, 10, 682-686.	15.6	526
43	Simulation of Hubbard model physics in WSe ₂ /WS ₂ moiré superlattices. <i>Nature</i> , 2020, 579, 353-358.	13.7	511
44	Lateral MoS ₂ p-n Junction Formed by Chemical Doping for Use in High-Performance Optoelectronics. <i>ACS Nano</i> , 2014, 8, 9332-9340.	7.3	507
45	Picosecond photoresponse in van der Waals heterostructures. <i>Nature Nanotechnology</i> , 2016, 11, 42-46.	15.6	493
46	Observation of the Dirac fluid and the breakdown of the Wiedemann-Franz law in graphene. <i>Science</i> , 2016, 351, 1058-1061.	6.0	491
47	Charge order and broken rotational symmetry in magic-angle twisted bilayer graphene. <i>Nature</i> , 2019, 573, 91-95.	13.7	491
48	Tunable metal-insulator transition in double-layer graphene heterostructures. <i>Nature Physics</i> , 2011, 7, 958-961.	6.5	486
49	Structure of chemically derived mono- and few-atomic-layer boron nitride sheets. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	481
50	van der Waals Heterostructures with High Accuracy Rotational Alignment. <i>Nano Letters</i> , 2016, 16, 1989-1995.	4.5	477
51	Very large tunneling magnetoresistance in layered magnetic semiconductor CrI ₃ . <i>Nature Communications</i> , 2018, 9, 2516.	5.8	472
52	Transport properties of pristine few-layer black phosphorus by van der Waals passivation in an inert atmosphere. <i>Nature Communications</i> , 2015, 6, 6647.	5.8	460
53	Spectroscopic signatures of many-body correlations in magic-angle twisted bilayer graphene. <i>Nature</i> , 2019, 572, 101-105.	13.7	459
54	Signatures of tunable superconductivity in a trilayer graphene moiré superlattice. <i>Nature</i> , 2019, 572, 215-219.	13.7	458

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55	Air-Stable Transport in Graphene-Contacted, Fully Encapsulated Ultrathin Black Phosphorus-Based Field-Effect Transistors. ACS Nano, 2015, 9, 4138-4145.	7.3	455
56	Atomic and electronic reconstruction at the van der Waals interface in twisted bilayer graphene. Nature Materials, 2019, 18, 448-453.	13.3	454
57	Electronic correlations in twisted bilayer graphene near the magic angle. Nature Physics, 2019, 15, 1174-1180.	6.5	450
58	Tunable strongly coupled superconductivity in magic-angle twisted trilayer graphene. Nature, 2021, 590, 249-255.	13.7	449
59	Synthesis of high-purity boron nitride single crystals under high pressure by using Ba ²⁺ /BN solvent. Journal of Crystal Growth, 2007, 303, 525-529.	0.7	444
60	Evidence of a gate-tunable Mott insulator in a trilayer graphene moiré superlattice. Nature Physics, 2019, 15, 237-241.	6.5	436
61	Twist-controlled resonant tunnelling in graphene/boron nitride/graphene heterostructures. Nature Nanotechnology, 2014, 9, 808-813.	15.6	435
62	Tunable moiré bands and strong correlations in small-twist-angle bilayer graphene. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3364-3369.	3.3	434
63	Electronic Properties of Graphene Encapsulated with Different Two-Dimensional Atomic Crystals. Nano Letters, 2014, 14, 3270-3276.	4.5	433
64	Tunable correlated states and spin-polarized phases in twisted bilayer bilayer graphene. Nature, 2020, 583, 215-220.	13.7	433
65	Tunable correlated Chern insulator and ferromagnetism in a moiré superlattice. Nature, 2020, 579, 56-61.	13.7	425
66	Far-ultraviolet plane-emission handheld device based on hexagonal boron nitride. Nature Photonics, 2009, 3, 591-594.	15.6	417
67	Multicomponent fractional quantum Hall effect in graphene. Nature Physics, 2011, 7, 693-696.	6.5	405
68	Hyperbolic phonon-polaritons in boron nitride for near-field optical imaging and focusing. Nature Communications, 2015, 6, 7507.	5.8	399
69	Excitonic Linewidth Approaching the Homogeneous Limit in MoS_2 -Based van der Waals Heterostructures. Physical Review X, 2017, 7, 041044.	2.8	389
70	Twistable electronics with dynamically rotatable heterostructures. Science, 2018, 361, 690-693.	6.0	387
71	Tunable spin-polarized correlated states in twisted double bilayer graphene. Nature, 2020, 583, 221-225.	13.7	385
72	Correlated states in twisted double bilayer graphene. Nature Physics, 2020, 16, 520-525.	6.5	374

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73	Observation of the nonlinear Hall effect under time-reversal-symmetric conditions. <i>Nature</i> , 2019, 565, 337-342.	13.7	372
74	Strong Coulomb drag and broken symmetry in double-layer graphene. <i>Nature Physics</i> , 2012, 8, 896-901.	6.5	365
75	Pressure-controlled interlayer magnetism in atomically thin CrI ₃ . <i>Nature Materials</i> , 2019, 18, 1303-1308.	13.3	364
76	Quality Heterostructures from Two-Dimensional Crystals Unstable in Air by Their Assembly in Inert Atmosphere. <i>Nano Letters</i> , 2015, 15, 4914-4921.	4.5	358
77	Switching 2D magnetic states via pressure tuning of layer stacking. <i>Nature Materials</i> , 2019, 18, 1298-1302.	13.3	358
78	Quantum Hall effect in black phosphorus two-dimensional electron system. <i>Nature Nanotechnology</i> , 2016, 11, 593-597.	15.6	356
79	Room-temperature electrical control of exciton flux in a van der Waals heterostructure. <i>Nature</i> , 2018, 560, 340-344.	13.7	353
80	Generation and detection of pure valley current by electrically induced Berry curvature in bilayer graphene. <i>Nature Physics</i> , 2015, 11, 1032-1036.	6.5	347
81	A MoTe ₂ -based light-emitting diode and photodetector for silicon photonic integrated circuits. <i>Nature Nanotechnology</i> , 2017, 12, 1124-1129.	15.6	344
82	Stacking-engineered ferroelectricity in bilayer boron nitride. <i>Science</i> , 2021, 372, 1458-1462.	6.0	344
83	Raman spectroscopy as probe of nanometre-scale strain variations in graphene. <i>Nature Communications</i> , 2015, 6, 8429.	5.8	341
84	Subdiffractional focusing and guiding of polaritonic rays in a natural hyperbolic material. <i>Nature Communications</i> , 2015, 6, 6963.	5.8	340
85	Boron nitride substrates for high mobility chemical vapor deposited graphene. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	339
86	Highly Stable, Dual-Gated MoS ₂ Transistors Encapsulated by Hexagonal Boron Nitride with Gate-Controllable Contact, Resistance, and Threshold Voltage. <i>ACS Nano</i> , 2015, 9, 7019-7026.	7.3	331
87	Evidence of high-temperature exciton condensation in two-dimensional atomic double layers. <i>Nature</i> , 2019, 574, 76-80.	13.7	331
88	Untying the insulating and superconducting orders in magic-angle graphene. <i>Nature</i> , 2020, 583, 375-378.	13.7	323
89	Tunneling Spin Valves Based on Fe ₃ GeTe ₂ /hBN/Fe ₃ GeTe ₂ van der Waals Heterostructures. <i>Nano Letters</i> , 2018, 18, 4303-4308.	4.5	319
90	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. <i>Nature Communications</i> , 2014, 5, 5162.	5.8	315

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91	Correlated insulating states at fractional fillings of moiré superlattices. <i>Nature</i> , 2020, 587, 214-218.	13.7	315
92	Superlattice-Induced Insulating States and Valley-Protected Orbits in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2016, 117, 116804.	2.9	312
93	High thermal conductivity of high-quality monolayer boron nitride and its thermal expansion. <i>Science Advances</i> , 2019, 5, eaav0129.	4.7	308
94	Spin and valley quantum Hall ferromagnetism in graphene. <i>Nature Physics</i> , 2012, 8, 550-556.	6.5	307
95	Gate-tunable topological valley transport in bilayer graphene. <i>Nature Physics</i> , 2015, 11, 1027-1031.	6.5	301
96	Cascade of phase transitions and Dirac revivals in magic-angle graphene. <i>Nature</i> , 2020, 582, 203-208.	13.7	297
97	Strange Metal in Magic-Angle Graphene with near Planckian Dissipation. <i>Physical Review Letters</i> , 2020, 124, 076801.	2.9	293
98	Superballistic flow of viscous electron fluid through graphene constrictions. <i>Nature Physics</i> , 2017, 13, 1182-1185.	6.5	288
99	Photoinduced doping in heterostructures of graphene and boron nitride. <i>Nature Nanotechnology</i> , 2014, 9, 348-352.	15.6	287
100	Widely tunable black phosphorus mid-infrared photodetector. <i>Nature Communications</i> , 2017, 8, 1672.	5.8	283
101	Quantum oscillations in a two-dimensional electron gas in black phosphorus thin films. <i>Nature Nanotechnology</i> , 2015, 10, 608-613.	15.6	282
102	Cascade of electronic transitions in magic-angle twisted bilayer graphene. <i>Nature</i> , 2020, 582, 198-202.	13.7	282
103	Valley Manipulation by Optically Tuning the Magnetic Proximity Effect in $\text{WSe}_2/\text{CrI}_3$ Heterostructures. <i>Nano Letters</i> , 2018, 18, 3823-3828.	4.5	281
104	Independent superconductors and correlated insulators in twisted bilayer graphene. <i>Nature Physics</i> , 2020, 16, 926-930.	6.5	276
105	Photonic crystals for nano-light in moiré graphene superlattices. <i>Science</i> , 2018, 362, 1153-1156.	6.0	273
106	Cleaning interfaces in layered materials heterostructures. <i>Nature Communications</i> , 2018, 9, 5387.	5.8	272
107	Electrically tunable low-density superconductivity in a monolayer topological insulator. <i>Science</i> , 2018, 362, 926-929.	6.0	271
108	High Responsivity Phototransistors Based on Few-Layer ReS_2 for Weak Signal Detection. <i>Advanced Functional Materials</i> , 2016, 26, 1938-1944.	7.8	270

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109	Probing dark excitons in atomically thin semiconductors via near-field coupling to surface plasmon polaritons. <i>Nature Nanotechnology</i> , 2017, 12, 856-860.	15.6	270
110	Ballistic Majorana nanowire devices. <i>Nature Nanotechnology</i> , 2018, 13, 192-197.	15.6	270
111	Strongly correlated Chern insulators in magic-angle twisted bilayer graphene. <i>Nature</i> , 2020, 588, 610-615.	13.7	262
112	Interfacial ferroelectricity by van der Waals sliding. <i>Science</i> , 2021, 372, 1462-1466.	6.0	262
113	Electric field-tunable superconductivity in alternating-twist magic-angle trilayer graphene. <i>Science</i> , 2021, 371, 1133-1138.	6.0	261
114	In-Plane Propagation of Light in Transition Metal Dichalcogenide Monolayers: Optical Selection Rules. <i>Physical Review Letters</i> , 2017, 119, 047401.	2.9	257
115	Acoustic terahertz graphene plasmons revealed by photocurrent nanoscopy. <i>Nature Nanotechnology</i> , 2017, 12, 31-35.	15.6	257
116	Giant Nonlocality Near the Dirac Point in Graphene. <i>Science</i> , 2011, 332, 328-330.	6.0	255
117	Electrical control of interlayer exciton dynamics in atomically thin heterostructures. <i>Science</i> , 2019, 366, 870-875.	6.0	255
118	Electron optics with p-n junctions in ballistic graphene. <i>Science</i> , 2016, 353, 1522-1525.	6.0	253
119	Interlayer Exciton Optoelectronics in a 2D Heterostructure p-n Junction. <i>Nano Letters</i> , 2017, 17, 638-643.	4.5	253
120	Tuning quantum nonlocal effects in graphene plasmonics. <i>Science</i> , 2017, 357, 187-191.	6.0	251
121	Strongly correlated electrons and hybrid excitons in a moiré heterostructure. <i>Nature</i> , 2020, 580, 472-477.	13.7	250
122	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe ₂ . <i>Nature Physics</i> , 2018, 14, 900-906.	6.5	249
123	Atomically thin quantum light-emitting diodes. <i>Nature Communications</i> , 2016, 7, 12978.	5.8	242
124	Mapping the twist-angle disorder and Landau levels in magic-angle graphene. <i>Nature</i> , 2020, 581, 47-52.	13.7	241
125	Ballistic Transport Exceeding 28 μm in CVD Grown Graphene. <i>Nano Letters</i> , 2016, 16, 1387-1391.	4.5	240
126	Large linear-in-temperature resistivity in twisted bilayer graphene. <i>Nature Physics</i> , 2019, 15, 1011-1016.	6.5	240

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127	Atomically Thin CrCl ₃ : An In-Plane Layered Antiferromagnetic Insulator. Nano Letters, 2019, 19, 3993-3998.	4.5	240
128	Low-Temperature Ohmic Contact to Monolayer MoS ₂ by van der Waals Bonded Co ₂ BN Electrodes. Nano Letters, 2017, 17, 4781-4786.	4.5	233
129	High-Mobility Holes in Dual-Gated WSe ₂ Field-Effect Transistors. ACS Nano, 2015, 9, 10402-10410.	7.3	232
130	WSe ₂ Light-Emitting Tunneling Transistors with Enhanced Brightness at Room Temperature. Nano Letters, 2015, 15, 8223-8228.	4.5	231
131	Tuning Ising superconductivity with layer and spin-orbit coupling in two-dimensional transition-metal dichalcogenides. Nature Communications, 2018, 9, 1427.	5.8	230
132	Tunable symmetry breaking and helical edge transport in a graphene quantum spin Hall state. Nature, 2014, 505, 528-532.	13.7	229
133	Observation of ultralong valley lifetime in WSe ₂ /MoS ₂ heterostructures. Science Advances, 2017, 3, e1700518.	4.7	226
134	Superconductivity in metallic twisted bilayer graphene stabilized by WSe ₂ . Nature, 2020, 583, 379-384.	13.7	225
135	Dynamic band-structure tuning of graphene moiré superlattices with pressure. Nature, 2018, 557, 404-408.	13.7	223
136	Dielectric disorder in two-dimensional materials. Nature Nanotechnology, 2019, 14, 832-837.	15.6	223
137	Nematicity and competing orders in superconducting magic-angle graphene. Science, 2021, 372, 264-271.	6.0	223
138	Revealed Architectures of Adsorbed Polymer Chains at Solid-Polymer Melt Interfaces. Physical Review Letters, 2012, 109, 265501.	2.9	219
139	Spin Lifetimes Exceeding 12 ns in Graphene Nonlocal Spin Valve Devices. Nano Letters, 2016, 16, 3533-3539.	4.5	214
140	Polarization switching and electrical control of interlayer excitons in two-dimensional van der Waals heterostructures. Nature Photonics, 2019, 13, 131-136.	15.6	214
141	Imaging viscous flow of the Dirac fluid in graphene. Nature, 2020, 583, 537-541.	13.7	213
142	Autonomous robotic searching and assembly of two-dimensional crystals to build van der Waals superlattices. Nature Communications, 2018, 9, 1413.	5.8	212
143	Quantum Hall effect and Landau-level crossing of Dirac fermions in trilayer graphene. Nature Physics, 2011, 7, 621-625.	6.5	211
144	Gate tunable quantum oscillations in air-stable and high mobility few-layer phosphorene heterostructures. 2D Materials, 2015, 2, 011001.	2.0	209

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145	N π -type skyrmion in WTe ₂ /Fe ₃ GeTe ₂ van der Waals heterostructure. Nature Communications, 2020, 11, 3860.	5.8	208
146	Waveguide-integrated van der Waals heterostructure photodetector at telecom wavelengths with high speed and high responsivity. Nature Nanotechnology, 2020, 15, 118-124.	15.6	208
147	Charged excitons in monolayer WSe_2 : Experiment and theory. Physical Review B, 2017, 96, .	11.1	208
148	Tin-Vacancy Quantum Emitters in Diamond. Physical Review Letters, 2017, 119, 253601.	2.9	204
149	Gate-tunable van der Waals heterostructure for reconfigurable neural network vision sensor. Science Advances, 2020, 6, eaba6173.	4.7	202
150	Resonant terahertz detection using graphene plasmons. Nature Communications, 2018, 9, 5392.	5.8	198
151	Measuring Hall viscosity of graphene's electron fluid. Science, 2019, 364, 162-165.	6.0	197
152	Flat bands in twisted bilayer transition metal dichalcogenides. Nature Physics, 2020, 16, 1093-1096.	6.5	197
153	Electron Doping of Ultrathin Black Phosphorus with Cu Adatoms. Nano Letters, 2016, 16, 2145-2151.	4.5	196
154	Ballistic Josephson junctions in edge-contacted graphene. Nature Nanotechnology, 2015, 10, 761-764.	15.6	194
155	Correlated Insulating States in Twisted Double Bilayer Graphene. Physical Review Letters, 2019, 123, 197702.	2.9	194
156	Characterization and manipulation of individual defects in insulating hexagonal boron nitride using scanning tunnelling microscopy. Nature Nanotechnology, 2015, 10, 949-953.	15.6	192
157	Chern insulators, van Hove singularities and topological flat bands in magic-angle twisted bilayer graphene. Nature Materials, 2021, 20, 488-494.	13.3	192
158	Reconfigurable logic and neuromorphic circuits based on electrically tunable two-dimensional homojunctions. Nature Electronics, 2020, 3, 383-390.	13.1	191
159	Excitonic luminescence upconversion in a two-dimensional semiconductor. Nature Physics, 2016, 12, 323-327.	6.5	187
160	Visualization of moiré superlattices. Nature Nanotechnology, 2020, 15, 580-584.	15.6	187
161	Charge-tuneable biexciton complexes in monolayer WSe ₂ . Nature Communications, 2018, 9, 3721.	5.8	185
162	Heterointerface effects in the electrointercalation of van der Waals heterostructures. Nature, 2018, 558, 425-429.	13.7	184

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163	Shape Deformation of Ternary Vesicles Coupled with Phase Separation. <i>Physical Review Letters</i> , 2008, 100, 148102.	2.9	183
164	Ballistic superconductivity in semiconductor nanowires. <i>Nature Communications</i> , 2017, 8, 16025.	5.8	181
165	Quantum anomalous Hall effect from intertwined moiré bands. <i>Nature</i> , 2021, 600, 641-646.	13.7	181
166	Photo-thermionic effect in vertical graphene heterostructures. <i>Nature Communications</i> , 2016, 7, 12174.	5.8	179
167	Quantum oscillations of the critical current and high-field superconducting proximity in ballistic graphene. <i>Nature Physics</i> , 2016, 12, 318-322.	6.5	179
168	Revealing exciton masses and dielectric properties of monolayer semiconductors with high magnetic fields. <i>Nature Communications</i> , 2019, 10, 4172.	5.8	179
169	Electrical switching of magnetic order in an orbital Chern insulator. <i>Nature</i> , 2020, 588, 66-70.	13.7	179
170	Superconductivity in rhombohedral trilayer graphene. <i>Nature</i> , 2021, 598, 434-438.	13.7	178
171	Ultrahigh thermal conductivity in isotope-enriched cubic boron nitride. <i>Science</i> , 2020, 367, 555-559.	6.0	177
172	Imaging electrostatically confined Dirac fermions in graphene quantum dots. <i>Nature Physics</i> , 2016, 12, 1032-1036.	6.5	176
173	Revealing the biexciton and trion-exciton complexes in BN encapsulated WSe ₂ . <i>Nature Communications</i> , 2018, 9, 3719.	5.8	175
174	Topologically Protected Helical States in Minimally Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2018, 121, 037702.	2.9	175
175	Layer-by-Layer Dielectric Breakdown of Hexagonal Boron Nitride. <i>ACS Nano</i> , 2015, 9, 916-921.	7.3	174
176	Continuous Mott transition in semiconductor moiré superlattices. <i>Nature</i> , 2021, 597, 350-354.	13.7	174
177	Quantum Hall drag of exciton condensate in graphene. <i>Nature Physics</i> , 2017, 13, 746-750.	6.5	173
178	Excitonic superfluid phase in double bilayer graphene. <i>Nature Physics</i> , 2017, 13, 751-755.	6.5	173
179	Interlayer electron-phonon coupling in WSe ₂ /hBN heterostructures. <i>Nature Physics</i> , 2017, 13, 127-131.	6.5	173
180	Electrically tunable correlated and topological states in twisted monolayer-bilayer graphene. <i>Nature Physics</i> , 2021, 17, 374-380.	6.5	173

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181	Direct Growth of Single- and Few-Layer MoS ₂ on h-BN with Preferred Relative Rotation Angles. Nano Letters, 2015, 15, 6324-6331.	4.5	172
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