Kenji Watanabe

List of Publications by Year
in descending order

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1,635	148,137	73	140
papers	citations	172 h-index	330 g-index

1704	1704	1704	53552
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Boron nitride substrates for high-quality graphene electronics. Nature Nanotechnology, 2010, 5, 722-726.	31.5	5,794
2	Unconventional superconductivity in magic-angle graphene superlattices. Nature, 2018, 556, 43-50.	27.8	5,221
3	Correlated insulator behaviour at half-filling in magic-angle graphene superlattices. Nature, 2018, 556, 80-84.	27.8	3,086
4	Direct-bandgap properties and evidence for ultraviolet lasing of hexagonal boron nitride single crystal. Nature Materials, 2004, 3, 404-409.	27.5	2,510
5	One-Dimensional Electrical Contact to a Two-Dimensional Material. Science, 2013, 342, 614-617.	12.6	2,236
6	Tuning superconductivity in twisted bilayer graphene. Science, 2019, 363, 1059-1064.	12.6	1,460
7	Micrometer-Scale Ballistic Transport in Encapsulated Graphene at Room Temperature. Nano Letters, 2011, 11, 2396-2399.	9.1	1,440
8	Electrically tunable excitonic light-emitting diodes based on monolayer WSe2 pâ€“n junctions. Nature Nanotechnology, 2014, 9, 268-272.	31.5	1,434
9	Hofstadterâ€™s butterfly and the fractal quantum Hall effect in moirÃ© superlattices. Nature, 2013, 497, 598-602.	27.8	1,404
10	Light-emitting diodes by band-structure engineering in van der Waals heterostructures. Nature Materials, 2015, 14, 301-306.	27.5	1,397
11	Massive Dirac Fermions and Hofstadter Butterfly in a van der Waals Heterostructure. Science, 2013, 340, 1427-1430.	12.6	1,392
12	Scanning tunnelling microscopy and spectroscopy of ultra-flat graphene on hexagonal boron nitride. Nature Materials, 2011, 10, 282-285.	27.5	1,157
13	Emergent ferromagnetism near three-quarters filling in twisted bilayer graphene. Science, 2019, 365, 605-608.	12.6	1,106
14	Multi-terminal transport measurements of MoS2 using a van der Waals heterostructure device platform. Nature Nanotechnology, 2015, 10, 534-540.	31.5	1,099
15	Deep Ultraviolet Light-Emitting Hexagonal Boron Nitride Synthesized at Atmospheric Pressure. Science, 2007, 317, 932-934.	12.6	1,060
16	Superconductors, orbital magnets and correlated states in magic-angle bilayer graphene. Nature, 2019, 574, 653-657.	27.8	987
17	Tunable Phonon Polaritons in Atomically Thin van der Waals Crystals of Boron Nitride. Science, 2014, 343, 1125-1129.	12.6	957
18	Emergence of superlattice Dirac points in graphene on hexagonal boron nitride. Nature Physics, 2012, 8, 382-386.	16.7	956

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19	Hunting for Monolayer Boron Nitride: Optical and Raman Signatures. Small, 2011, 7, 465-468.	10.0	950
20	Flexible and Transparent MoS₂ Field-Effect Transistors on Hexagonal Boron Nitride-Graphene Heterostructures. ACS Nano, 2013, 7, 7931-7936.	14.6	947
21	Evidence for moirÃ© excitons in van der Waals heterostructures. Nature, 2019, 567, 71-75.	27.8	933
22	Epitaxial growth of single-domain graphene on hexagonal boron nitride. Nature Materials, 2013, 12, 792-797.	27.5	882
23	Hot Carrierâ€“Assisted Intrinsic Photoresponse in Graphene. Science, 2011, 334, 648-652.	12.6	876
24	Giant tunneling magnetoresistance in spin-filter van der Waals heterostructures. Science, 2018, 360, 1214-1218.	12.6	871
25	Highly confined low-loss plasmons in grapheneâ€“boron nitride heterostructures. Nature Materials, 2015, 14, 421-425.	27.5	847
26	Intrinsic quantized anomalous Hall effect in a moirÃ© heterostructure. Science, 2020, 367, 900-903.	12.6	844
27	Observation of moirÃ© excitons in WSe2/WS2 heterostructure superlattices. Nature, 2019, 567, 76-80.	27.8	791
28	Commensurateâ€“incommensurate transition in graphene on hexagonal boron nitride. Nature Physics, 2014, 10, 451-456.	16.7	737
29	Sub-diffractional volume-confined polaritons in the natural hyperbolic material hexagonal boron nitride. Nature Communications, 2014, 5, 5221.	12.8	686
30	Probing magnetism in 2D van der Waals crystalline insulators via electron tunneling. Science, 2018, 360, 1218-1222.	12.6	668
31	Ultrahigh-mobility graphene devices from chemical vapor deposition on reusable copper. Science Advances, 2015, 1, e1500222.	10.3	635
32	Van der Waals engineering of ferromagnetic semiconductor heterostructures for spin and valleytronics. Science Advances, 2017, 3, e1603113.	10.3	635
33	Strong Oxidation Resistance of Atomically Thin Boron Nitride Nanosheets. ACS Nano, 2014, 8, 1457-1462.	14.6	633
34	Anomalously low dielectric constant of confined water. Science, 2018, 360, 1339-1342.	12.6	627
35	Direct observation of the layer-dependent electronic structure in phosphorene. Nature Nanotechnology, 2017, 12, 21-25.	31.5	625
36	Resonantly hybridized excitons in moirÃ© superlattices in van der Waals heterostructures. Nature, 2019, 567, 81-86.	27.8	621

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37	Observation of the quantum spin Hall effect up to 100 kelvin in a monolayer crystal. Science, 2018, 359, 76-79.	12.6	613
38	Thermal Conductivity and Phonon Transport in Suspended Few-Layer Hexagonal Boron Nitride. Nano Letters, 2013, 13, 550-554.	9.1	585
39	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. Nature Communications, 2017, 8, 15815.	12.8	576
40	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. Nature Materials, 2020, 19, 861-866.	27.5	544
41	Mott and generalized Wigner crystal states in WSe2/WS2 moirÃ© superlattices. Nature, 2020, 579, 359-363.	27.8	536
42	Graphene on hexagonal boron nitride as a tunable hyperbolic metamaterial. Nature Nanotechnology, 2015, 10, 682-686.	31.5	526
43	Simulation of Hubbard model physics in WSe2/WS2 moirÃ© superlattices. Nature, 2020, 579, 353-358.	27.8	511
44	Lateral MoS₂ pâ€“n Junction Formed by Chemical Doping for Use in High-Performance Optoelectronics. ACS Nano, 2014, 8, 9332-9340.	14.6	507
45	Rad18 guides polÎ· to replication stalling sites through physical interaction and PCNA monoubiquitination. EMBO Journal, 2004, 23, 3886-3896.	7.8	499
46	Picosecond photoresponse in van der Waals heterostructures. Nature Nanotechnology, 2016, 11, 42-46.	31.5	493
47	Observation of the Dirac fluid and the breakdown of the Wiedemann-Franz law in graphene. Science, 2016, 351, 1058-1061.	12.6	491
48	Charge order and broken rotational symmetry in magic-angle twisted bilayer graphene. Nature, 2019, 573, 91-95.	27.8	491
49	REV7 counteracts DNA double-strand break resection and affects PARP inhibition. Nature, 2015, 521, 541-544.	27.8	487
50	Tunable metalâ€“insulator transition in double-layer graphene heterostructures. Nature Physics, 2011, 7, 958-961.	16.7	486
51	Structure of chemically derived mono- and few-atomic-layer boron nitride sheets. Applied Physics Letters, 2008, 93, .	3.3	481
52	van der Waals Heterostructures with High Accuracy Rotational Alignment. Nano Letters, 2016, 16, 1989-1995.	9.1	477
53	Ultraviolet Emission from a Diamond pn Junction. Science, 2001, 292, 1899-1901.	12.6	475
54	Very large tunneling magnetoresistance in layered magnetic semiconductor CrI3. Nature Communications, 2018, 9, 2516.	12.8	472

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55	Understanding and controlling the substrate effect on graphene electron-transfer chemistry via reactivity imprint lithography. Nature Chemistry, 2012, 4, 724-732.	13.6	463
56	Transport properties of pristine few-layer black phosphorus by van der Waals passivation in an inert atmosphere. Nature Communications, 2015, 6, 6647.	12.8	460
57	Spectroscopic signatures of many-body correlations in magic-angle twisted bilayer graphene. Nature, 2019, 572, 101-105.	27.8	459
58	Signatures of tunable superconductivity in a trilayer graphene moirÃ© superlattice. Nature, 2019, 572, 215-219.	27.8	458
59	Air-Stable Transport in Graphene-Contacted, Fully Encapsulated Ultrathin Black Phosphorus-Based Field-Effect Transistors. ACS Nano, 2015, 9, 4138-4145.	14.6	455
60	Atomic and electronic reconstruction at the van der Waals interface in twisted bilayer graphene. Nature Materials, 2019, 18, 448-453.	27.5	454
61	Electronic correlations in twisted bilayer graphene near the magic angle. Nature Physics, 2019, 15, 1174-1180.	16.7	450
62	Tunable strongly coupled superconductivity in magic-angle twisted trilayer graphene. Nature, 2021, 590, 249-255.	27.8	449
63	Synthesis of high-purity boron nitride single crystals under high pressure by using Baâ€“BN solvent. Journal of Crystal Growth, 2007, 303, 525-529.	1.5	444
64	Evidence of a gate-tunable Mott insulator in a trilayer graphene moirÃ© superlattice. Nature Physics, 2019, 15, 237-241.	16.7	436
65	Twist-controlled resonant tunnelling in graphene/boron nitride/graphene heterostructures. Nature Nanotechnology, 2014, 9, 808-813.	31.5	435
66	Tunable moirÃ© 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.	7.1	434
67	Electronic Properties of Graphene Encapsulated with Different Two-Dimensional Atomic Crystals. Nano Letters, 2014, 14, 3270-3276.	9.1	433
68	Tunable correlated states and spin-polarized phases in twisted bilayerâ€“bilayer graphene. Nature, 2020, 583, 215-220.	27.8	433
69	Tunable correlated Chern insulator and ferromagnetism in a moirÃ© superlattice. Nature, 2020, 579, 56-61.	27.8	425
70	Far-ultraviolet plane-emission handheld device based on hexagonal boron nitride. Nature Photonics, 2009, 3, 591-594.	31.4	417
71	Multicomponent fractional quantum Hall effect inÂgraphene. Nature Physics, 2011, 7, 693-696.	16.7	405
72	Hyperbolic phonon-polaritons in boron nitride for near-field optical imaging and focusing. Nature Communications, 2015, 6, 7507.	12.8	399

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73	Twistable electronics with dynamically rotatable heterostructures. Science, 2018, 361, 690-693.	12.6	387
74	Tunable spin-polarized correlated states in twisted double bilayer graphene. Nature, 2020, 583, 221-225.	27.8	385
75	Correlated states in twisted double bilayer graphene. Nature Physics, 2020, 16, 520-525.	16.7	374
76	Observation of the nonlinear Hall effect under time-reversal-symmetric conditions. Nature, 2019, 565, 337-342.	27.8	372
77	Strong Coulomb drag and broken symmetry in double-layer graphene. Nature Physics, 2012, 8, 896-901.	16.7	365
78	Pressure-controlled interlayer magnetism in atomically thin CrI3. Nature Materials, 2019, 18, 1303-1308.	27.5	364
79	Quality Heterostructures from Two-Dimensional Crystals Unstable in Air by Their Assembly in Inert Atmosphere. Nano Letters, 2015, 15, 4914-4921.	9.1	358
80	Switching 2D magnetic states via pressure tuning of layer stacking. Nature Materials, 2019, 18, 1298-1302.	27.5	358
81	Quantum Hall effect in black phosphorus two-dimensional electron system. Nature Nanotechnology, 2016, 11, 593-597.	31.5	356
82	Room-temperature electrical control of exciton flux in a van der Waals heterostructure. Nature, 2018, 560, 340-344.	27.8	353
83	Generation and detection of pure valley current byÂelectrically induced Berry curvature in bilayerÂgraphene. Nature Physics, 2015, 11, 1032-1036.	16.7	347
84	A MoTe2-based light-emitting diode and photodetector for silicon photonic integrated circuits. Nature Nanotechnology, 2017, 12, 1124-1129.	31.5	344
85	Stacking-engineered ferroelectricity in bilayer boron nitride. Science, 2021, 372, 1458-1462.	12.6	344
86	Raman spectroscopy as probe of nanometre-scale strain variations in graphene. Nature Communications, 2015, 6, 8429.	12.8	341
87	Subdiffractional focusing and guiding of polaritonic rays in a natural hyperbolic material. Nature Communications, 2015, 6, 6963.	12.8	340
88	Boron nitride substrates for high mobility chemical vapor deposited graphene. Applied Physics Letters, 2011, 98, .	3.3	339
89	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.	14.6	331
90	Evidence of high-temperature exciton condensation in two-dimensional atomic double layers. Nature, 2019, 574, 76-80.	27.8	331

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91	Untying the insulating and superconducting orders in magic-angle graphene. Nature, 2020, 583, 375-378.	27.8	323
92	Tunneling Spin Valves Based on Fe₃GeTe₂/hBN/Fe₃GeTe₂ van der Waals Heterostructures. Nano Letters, 2018, 18, 4303-4308.	9.1	319
93	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. Nature Communications, 2014, 5, 5162.	12.8	315
94	Correlated insulating states at fractional fillings of moirÃ© superlattices. Nature, 2020, 587, 214-218.	27.8	315
95	High thermal conductivity of high-quality monolayer boron nitride and its thermal expansion. Science Advances, 2019, 5, eaav0129.	10.3	308
96	Spin and valley quantum Hall ferromagnetism inÂgraphene. Nature Physics, 2012, 8, 550-556.	16.7	307
97	Gate-tunable topological valley transport in bilayer graphene. Nature Physics, 2015, 11, 1027-1031.	16.7	301
98	Cascade of phase transitions and Dirac revivals in magic-angle graphene. Nature, 2020, 582, 203-208.	27.8	297
99	Strange Metal in Magic-Angle Graphene with near Planckian Dissipation. Physical Review Letters, 2020, 124, 076801.	7.8	293
100	Superballistic flow of viscous electron fluid through graphene constrictions. Nature Physics, 2017, 13, 1182-1185.	16.7	288
101	Photoinduced doping in heterostructures of graphene and boron nitride. Nature Nanotechnology, 2014, 9, 348-352.	31.5	287
102	Widely tunable black phosphorus mid-infrared photodetector. Nature Communications, 2017, 8, 1672.	12.8	283
103	Quantum oscillations in a two-dimensional electron gas in black phosphorus thin films. Nature Nanotechnology, 2015, 10, 608-613.	31.5	282
104	Cascade of electronic transitions in magic-angle twisted bilayer graphene. Nature, 2020, 582, 198-202.	27.8	282
105	Valley Manipulation by Optically Tuning the Magnetic Proximity Effect in WSe₂/CrI₃ Heterostructures. Nano Letters, 2018, 18, 3823-3828.	9.1	281
106	Independent superconductors and correlated insulators in twisted bilayer graphene. Nature Physics, 2020, 16, 926-930.	16.7	276
107	Photonic crystals for nano-light in moirÃ© graphene superlattices. Science, 2018, 362, 1153-1156.	12.6	273
108	Cleaning interfaces in layered materials heterostructures. Nature Communications, 2018, 9, 5387.	12.8	272

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109	Electrically tunable low-density superconductivity in a monolayer topological insulator. Science, 2018, 362, 926-929.	12.6	271
110	High Responsivity Phototransistors Based on Fewâ€Layer ReS₂ for Weak Signal Detection. Advanced Functional Materials, 2016, 26, 1938-1944.	14.9	270
111	Probing dark excitons in atomically thin semiconductors via near-field coupling to surface plasmon polaritons. Nature Nanotechnology, 2017, 12, 856-860.	31.5	270
112	Ballistic Majorana nanowire devices. Nature Nanotechnology, 2018, 13, 192-197.	31.5	270
113	Direct Chemical Vapor Deposition Growth of WS₂ Atomic Layers on Hexagonal Boron Nitride. ACS Nano, 2014, 8, 8273-8277.	14.6	267
114	Strongly correlated Chern insulators in magic-angle twisted bilayer graphene. Nature, 2020, 588, 610-615.	27.8	262
115	Interfacial ferroelectricity by van der Waals sliding. Science, 2021, 372, 1462-1466.	12.6	262
116	Electric fieldâ€“tunable superconductivity in alternating-twist magic-angle trilayer graphene. Science, 2021, 371, 1133-1138.	12.6	261
117	Acoustic terahertz graphene plasmons revealed by photocurrent nanoscopy. Nature Nanotechnology, 2017, 12, 31-35.	31.5	257
118	Giant Nonlocality Near the Dirac Point in Graphene. Science, 2011, 332, 328-330.	12.6	255
119	Electrical control of interlayer exciton dynamics in atomically thin heterostructures. Science, 2019, 366, 870-875.	12.6	255
120	Electron optics with p-n junctions in ballistic graphene. Science, 2016, 353, 1522-1525.	12.6	253
121	Interlayer Exciton Optoelectronics in a 2D Heterostructure pâ€“n Junction. Nano Letters, 2017, 17, 638-643.	9.1	253
122	Tuning quantum nonlocal effects in graphene plasmonics. Science, 2017, 357, 187-191.	12.6	251
123	Strongly correlated electrons and hybrid excitons in a moirÃ© heterostructure. Nature, 2020, 580, 472-477.	27.8	250
124	Electrically switchable Berry curvature dipole in the monolayer topological insulator WTe2. Nature Physics, 2018, 14, 900-906.	16.7	249
125	Atomically thin quantum light-emitting diodes. Nature Communications, 2016, 7, 12978.	12.8	242
126	Approaching the intrinsic photoluminescence linewidth in transition metal dichalcogenide monolayers. 2D Materials, 2017, 4, 031011.	4.4	242

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127	Mapping the twist-angle disorder and Landau levels in magic-angle graphene. Nature, 2020, 581, 47-52.	27.8	241
128	Ballistic Transport Exceeding 28 Î¼m in CVD Grown Graphene. Nano Letters, 2016, 16, 1387-1391.	9.1	240
129	Large linear-in-temperature resistivity in twisted bilayer graphene. Nature Physics, 2019, 15, 1011-1016.	16.7	240
130	Atomically Thin CrCl₃: An In-Plane Layered Antiferromagnetic Insulator. Nano Letters, 2019, 19, 3993-3998.	9.1	240
131	Low-Temperature Ohmic Contact to Monolayer MoS₂ by van der Waals Bonded Co/h-BN Electrodes. Nano Letters, 2017, 17, 4781-4786.	9.1	233
132	High-Mobility Holes in Dual-Gated WSe₂ Field-Effect Transistors. ACS Nano, 2015, 9, 10402-10410.	14.6	232
133	WSe₂ Light-Emitting Tunneling Transistors with Enhanced Brightness at Room Temperature. Nano Letters, 2015, 15, 8223-8228.	9.1	231
134	Elasticity of hexagonal boron nitride: Inelastic x-ray scattering measurements. Physical Review B, 2006, 73, .	3.2	230
135	Tuning Ising superconductivity with layer and spinâ€“orbit coupling in two-dimensional transition-metal dichalcogenides. Nature Communications, 2018, 9, 1427.	12.8	230
136	Tunable symmetry breaking and helical edge transport in a graphene quantum spin Hall state. Nature, 2014, 505, 528-532.	27.8	229
137	Observation of ultralong valley lifetime in WSe ₂ /MoS ₂ heterostructures. Science Advances, 2017, 3, e1700518.	10.3	226
138	Superconductivity in metallic twisted bilayer graphene stabilized by WSe2. Nature, 2020, 583, 379-384.	27.8	225
139	Dielectric disorder in two-dimensional materials. Nature Nanotechnology, 2019, 14, 832-837.	31.5	223
140	Nematicity and competing orders in superconducting magic-angle graphene. Science, 2021, 372, 264-271.	12.6	223
141	Spin Lifetimes Exceeding 12 ns in Graphene Nonlocal Spin Valve Devices. Nano Letters, 2016, 16, 3533-3539.	9.1	214
142	Polarization switching and electrical control of interlayer excitons in two-dimensional van der Waals heterostructures. Nature Photonics, 2019, 13, 131-136.	31.4	214
143	Imaging viscous flow of the Dirac fluid in graphene. Nature, 2020, 583, 537-541.	27.8	213
144	Autonomous robotic searching and assembly of two-dimensional crystals to build van der Waals superlattices. Nature Communications, 2018, 9, 1413.	12.8	212

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145	Quantum Hall effect and Landau-level crossing of Dirac fermions in trilayer graphene. Nature Physics, 2011, 7, 621-625.	16.7	211
146	Gate tunable quantum oscillations in air-stable and high mobility few-layer phosphorene heterostructures. 2D Materials, 2015, 2, 011001.	4.4	209
147	NÃ©el-type skyrmion in WTe2/Fe3GeTe2 van der Waals heterostructure. Nature Communications, 2020, 11, 3860.	12.8	208
148	Waveguide-integrated van der Waals heterostructure photodetector at telecom wavelengths with high speed and high responsivity. Nature Nanotechnology, 2020, 15, 118-124.	31.5	208
149	Gate-tunable van der Waals heterostructure for reconfigurable neural network vision sensor. Science Advances, 2020, 6, eaba6173.	10.3	202
150	Resonant terahertz detection using graphene plasmons. Nature Communications, 2018, 9, 5392.	12.8	198
151	Measuring Hall viscosity of grapheneâ€™s electron fluid. Science, 2019, 364, 162-165.	12.6	197
152	Flat bands in twisted bilayer transition metal dichalcogenides. Nature Physics, 2020, 16, 1093-1096.	16.7	197
153	Electron Doping of Ultrathin Black Phosphorus with Cu Adatoms. Nano Letters, 2016, 16, 2145-2151.	9.1	196
154	Ballistic Josephson junctions in edge-contacted graphene. Nature Nanotechnology, 2015, 10, 761-764.	31.5	194
155	Correlated Insulating States in Twisted Double Bilayer Graphene. Physical Review Letters, 2019, 123, 197702.	7.8	194
156	Characterization and manipulation of individual defects in insulating hexagonal boron nitride using scanning tunnelling microscopy. Nature Nanotechnology, 2015, 10, 949-953.	31.5	192
157	Chern insulators, van Hove singularities and topological flat bands in magic-angle twisted bilayer graphene. Nature Materials, 2021, 20, 488-494.	27.5	192
158	Reconfigurable logic and neuromorphic circuits based on electrically tunable two-dimensional homojunctions. Nature Electronics, 2020, 3, 383-390.	26.0	191
159	Vibrational Properties of Hexagonal Boron Nitride: Inelastic X-Ray Scattering andAbÂInitioCalculations. Physical Review Letters, 2007, 98, 095503.	7.8	190
160	Gate-controlled topological conducting channels in bilayer graphene. Nature Nanotechnology, 2016, 11, 1060-1065.	31.5	188
161	Boron concentration dependence of Raman spectra on {100} and {111} facets of B-doped CVD diamond. Diamond and Related Materials, 1998, 7, 1719-1722.	3.9	187
162	Excitonic luminescence upconversion in a two-dimensional semiconductor. Nature Physics, 2016, 12, 323-327.	16.7	187

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163	Visualization of moirÃ© superlattices. Nature Nanotechnology, 2020, 15, 580-584.	31.5	187
164	Charge-tuneable biexciton complexes in monolayer WSe2. Nature Communications, 2018, 9, 3721.	12.8	185
165	Graphene based heterostructures. Solid State Communications, 2012, 152, 1275-1282.	1.9	184
166	Heterointerface effects in the electrointercalation of van der Waals heterostructures. Nature, 2018, 558, 425-429.	27.8	184
167	Adalimumab Monotherapy and a Combination with Azathioprine for Crohnâ€™s Disease: A Prospective, Randomized Trial. Journal of Crohn's and Colitis, 2016, 10, 1259-1266.	1.3	182
168	Ballistic superconductivity in semiconductor nanowires. Nature Communications, 2017, 8, 16025.	12.8	181
169	Quantum anomalous Hall effect from intertwined moirÃ© bands. Nature, 2021, 600, 641-646.	27.8	181
170	BN/Graphene/BN Transistors for RF Applications. IEEE Electron Device Letters, 2011, 32, 1209-1211.	3.9	179
171	Quantum oscillations of the critical current and high-field superconducting proximity in ballisticÂgraphene. Nature Physics, 2016, 12, 318-322.	16.7	179
172	Revealing exciton masses and dielectric properties of monolayer semiconductors with high magnetic fields. Nature Communications, 2019, 10, 4172.	12.8	179
173	Electrical switching of magnetic order in an orbital Chern insulator. Nature, 2020, 588, 66-70.	27.8	179
174	Superconductivity in rhombohedral trilayer graphene. Nature, 2021, 598, 434-438.	27.8	178
175	Ultrahigh thermal conductivity in isotope-enriched cubic boron nitride. Science, 2020, 367, 555-559.	12.6	177
176	Imaging electrostatically confined Dirac fermions in graphene quantum dots. Nature Physics, 2016, 12, 1032-1036.	16.7	176
177	Revealing the biexciton and trion-exciton complexes in BN encapsulated WSe2. Nature Communications, 2018, 9, 3719.	12.8	175
178	Topologically Protected Helical States in Minimally Twisted Bilayer Graphene. Physical Review Letters, 2018, 121, 037702.	7.8	175
179	Layer-by-Layer Dielectric Breakdown of Hexagonal Boron Nitride. ACS Nano, 2015, 9, 916-921.	14.6	174
180	Continuous Mott transition in semiconductor moirè superlattices. Nature, 2021, 597, 350-354.	27.8	174

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181	Quantum Hall drag of exciton condensate inÂgraphene. Nature Physics, 2017, 13, 746-750.	16.7	173
182	Excitonic superfluid phase in double bilayerÂgraphene. Nature Physics, 2017, 13, 751-755.	16.7	173
183	Interlayer electronâ€“phonon coupling in WSe2/hBN heterostructures. Nature Physics, 2017, 13, 127-131.	16.7	173
184	Electrically tunable correlated and topological states in twisted monolayerâ€“bilayer graphene. Nature Physics, 2021, 17, 374-380.	16.7	173
185	Direct Growth of Single- and Few-Layer MoS₂ on h-BN with Preferred Relative Rotation Angles. Nano Letters, 2015, 15, 6324-6331.	9.1	172
186	Transferred via contacts as a platform for ideal two-dimensional transistors. Nature Electronics, 2019, 2, 187-194.	26.0	172
187	Nearly room temperature ferromagnetism in a magnetic metal-rich van der Waals metal. Science Advances, 2020, 6, eaay8912.	10.3	172
188	Creating and probing electron whispering-gallery modes in graphene. Science, 2015, 348, 672-675.	12.6	170
189	Visualizing Poiseuille flow of hydrodynamic electrons. Nature, 2019, 576, 75-79.	27.8	170
190	Layer-resolved magnetic proximity effect in van der Waals heterostructures. Nature Nanotechnology, 2020, 15, 187-191.	31.5	169
191	Interfacial ferroelectricity in rhombohedral-stacked bilayer transition metal dichalcogenides. Nature Nanotechnology, 2022, 17, 367-371.	31.5	167
192	Gate-Tunable Resonant Tunneling in Double Bilayer Graphene Heterostructures. Nano Letters, 2015, 15, 428-433.	9.1	166
193	Large Excitonic Reflectivity of 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></mml:mrow> in Hexagonal Boron Nitride. Physical Review Letters, 2018, 120, 037402.	7.8	165
194	Unconventional ferroelectricity in moirÃ© heterostructures. Nature, 2020, 588, 71-76.	27.8	165
195	Pauli-limit violation and re-entrant superconductivity in moirÃ© graphene. Nature, 2021, 595, 526-531.	27.8	165
196	Quantum criticality in twisted transition metal dichalcogenides. Nature, 2021, 597, 345-349.	27.8	163
197	Growth and Optical Properties of High-Quality Monolayer WS₂ on Graphite. ACS Nano, 2015, 9, 4056-4063.	14.6	162
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