

Kenji Watanabe

List of Publications by Year in descending order

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1,635
papers

148,137
citations

73

172
h-index

140

330
g-index

1704
all docs

1704
docs citations

1704
times ranked

53552
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-low friction and edge-pinning effect in large-lattice-mismatch van der Waals heterostructures. <i>Nature Materials</i> , 2022, 21, 47-53.	27.5	110
2	High-Speed Electroluminescence Modulation in Monolayer WS ₂ . <i>Advanced Materials Technologies</i> , 2022, 7, 2100915.	5.8	6
3	Heat dissipation in few-layer MoS ₂ and MoS ₂ /hBN heterostructure. <i>2D Materials</i> , 2022, 9, 015005.	4.4	6
4	Visualization of a hexagonal boron nitride monolayer on an ultra-thin gold film via reflected light microscopy. <i>Nanotechnology</i> , 2022, 33, 065702.	2.6	2
5	Chemothermal pulverization: Crushing titanate crystals to obtain nanosized powders via high-temperature treatment. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1913-1927.	3.8	1
6	Fabry-Pérot cavities and quantum dot formation at gate-defined interfaces in twisted double bilayer graphene. <i>2D Materials</i> , 2022, 9, 014003.	4.4	2
7	GRP78 Antibodies Are Associated With Blood-Brain Barrier Breakdown in Anti-Myelin Oligodendrocyte Glycoprotein Antibody-Associated Disorder. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2022, 9, .	6.0	15
8	Probing biexciton in monolayer WS ₂ through controlled many-body interaction. <i>2D Materials</i> , 2022, 9, 015023.	4.4	11
9	Orbital Gating Driven by Giant Stark Effect in Tunneling Phototransistors. <i>Advanced Materials</i> , 2022, 34, e2106625.	21.0	9
10	Impact of domain disorder on optoelectronic properties of layered semimetal MoTe ₂ . <i>2D Materials</i> , 2022, 9, 011002.	4.4	6
11	Coexisting ferromagnetic-antiferromagnetic state in twisted bilayer CrI ₃ . <i>Nature Nanotechnology</i> , 2022, 17, 143-147.	31.5	115
12	Quantitative Determination of Contradictory Bandgap Values of Bulk PdSe ₂ from Electrical Transport Properties. <i>Advanced Functional Materials</i> , 2022, 32, 2108061.	14.9	11
13	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
14	Enhanced terahertz detection of multigate graphene nanostructures. <i>Nanophotonics</i> , 2022, 11, 519-529.	6.0	17
15	In-situ twistable bilayer graphene. <i>Scientific Reports</i> , 2022, 12, 204.	3.3	12
16	Out-of-equilibrium criticalities in graphene superlattices. <i>Science</i> , 2022, 375, 430-433.	12.6	34
17	All About the Interface: Do Residual Contaminants at A High-Quality hBN Monolayer Perylene Diimide Interface Cause Charge Trapping?. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	5
18	Artificial Neuron Networks Enabled Identification and Characterizations of 2D Materials and van der Waals Heterostructures. <i>ACS Nano</i> , 2022, 16, 2721-2729.	14.6	22

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19	Gate-Tunable Transport in Quasi-One-Dimensional \hat{I}_{\pm} -Bi ₄ I ₄ Field Effect Transistors. Nano Letters, 2022, 22, 1151-1158.	9.1	5
20	Isospin magnetism and spin-polarized superconductivity in Bernal bilayer graphene. Science, 2022, 375, 774-778.	12.6	127
21	Optical dipole orientation of interlayer excitons in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi} \text{MoSe}_2 \langle \text{mml:mrow}>\langle \text{mml:msub}>\langle \text{mml:mi} \text{heterostacks. Physical Review B, 2022, 105, .$	3.2	11
22	Switchable out-of-plane shift current in ferroelectric two-dimensional material CuInP2S6. Applied Physics Letters, 2022, 120, 013103.	3.3	6
23	Tunable Spin Injection in High-Quality Graphene with One-Dimensional Contacts. Nano Letters, 2022, 22, 935-941.	9.1	7
24	Correlation-driven electron-hole asymmetry in graphene field effect devices. Npj Quantum Materials, 2022, 7, .	5.2	6
25	Probing dark exciton navigation through a local strain landscape in a WSe2 monolayer. Nature Communications, 2022, 13, 232.	12.8	32
26	Spatially indirect intervalley excitons in bilayer $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi} \text{mathvariant="normal">W} \langle \text{mml:mi} \text{mathvariant="normal">W} \langle \text{mml:mi} \text{mathvariant="normal">W} \langle \text{mml:msub}>\langle \text{mml:mi} \text{Se} \langle \text{mml:mi} \text{Se} \langle \text{mml:mi} \text{Se} \langle \text{mml:mrow}>\langle \text{mml:msub}>\langle \text{mml:mi} \text{Physical Review B, 2022, 105, .$	3.2	11
27	Magnetic Phase Transitions and Magnetoelastic Coupling in a Two-Dimensional Stripy Antiferromagnet. Nano Letters, 2022, 22, 1233-1241.	9.1	21
28	An Asymmetry Field-Effect Phototransistor for Solving Large Exciton Binding Energy of 2D TMDCs. Advanced Materials, 2022, 34, e2107468.	21.0	7
29	Tunable Orbital Ferromagnetism at Noninteger Filling of a Moiré Superlattice. Nano Letters, 2022, 22, 238-245.	9.1	17
30	Interlayer exciton complexes in bilayer $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi} \text{MoS}_2 \langle \text{mml:mrow}>\langle \text{mml:msub}>\langle \text{mml:mi} \text{Physical Review B, 2022, 105, .$	3.2	11
31	Interfacial ferroelectricity in rhombohedral-stacked bilayer transition metal dichalcogenides. Nature Nanotechnology, 2022, 17, 367-371.	31.5	167
32	Observation of ballistic upstream modes at fractional quantum Hall edges of graphene. Nature Communications, 2022, 13, 213.	12.8	15
33	Crossover between strongly coupled and weakly coupled exciton superfluids. Science, 2022, 375, 205-209.	12.6	33
34	Step-like resistance changes in VO2 thin films grown on hexagonal boron nitride with <i>in situ</i> optically observable metallic domains. Applied Physics Letters, 2022, 120, .	3.3	3
35	Giant Photoresponse Enhancement in Mixed-Dimensional Van der Waals Heterostructure through Dielectric Engineering. Advanced Materials Interfaces, 2022, 9, .	3.7	5
36	Enhancing Perpendicular Magnetic Anisotropy in Garnet Ferrimagnet by Interfacing with Few-Layer WTe ₂ . Nano Letters, 2022, 22, 1115-1121.	9.1	7

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37	Positron charge sensing using a double-gated graphene field effect transistor. Review of Scientific Instruments, 2022, 93, 015002.	1.3	3
38	Visualizing broken symmetry and topological defects in a quantum Hall ferromagnet. Science, 2022, 375, 321-326.	12.6	55
39	Dielectric permittivity, conductivity and breakdown field of hexagonal boron nitride. Materials Research Express, 2022, 9, 065901.	1.6	21
40	Spin-orbit-driven ferromagnetism at half moiré filling in magic-angle twisted bilayer graphene. Science, 2022, 375, 437-441.	12.6	61
41	Hexagonal boron nitride as a low-loss dielectric for superconducting quantum circuits and qubits. Nature Materials, 2022, 21, 398-403.	27.5	34
42	Raman spectra of twisted bilayer graphene close to the magic angle. 2D Materials, 2022, 9, 025007.	4.4	12
43	Enhanced Performance of WS_2 Field-Effect Transistor through Mono and Bilayer hBN Tunneling Contacts. Small, 2022, 18, e2105753.	10.0	22
44	Second-harmonic generation in atomically thin hBN and its possible origin from charge density wave transitions. Physical Review B, 2022, 105, .	3.2	15
45	Chloroaluminate Anion Intercalation in Graphene and Graphite: From Two-Dimensional Devices to Aluminum-Ion Batteries. Nano Letters, 2022, 22, 1726-1733.	9.1	13
46	Nonlinear intensity dependence of photogalvanics and photoconductance induced by terahertz laser radiation in twisted bilayer graphene close to magic angle. Physical Review Materials, 2022, 6, .	2.4	5
47	Directional etching for high aspect ratio nano-trenches on hexagonal boron nitride by catalytic metal particles. 2D Materials, 2022, 9, 025015.	4.4	8
48	Pauli Blockade of Tunable Two-Electron Spin and Valley States in Graphene Quantum Dots. Physical Review Letters, 2022, 128, 067702.	7.8	19
49	Scattering between Minivalleys in Twisted Double Bilayer Graphene. Physical Review Letters, 2022, 128, 057702.	7.8	11
50	Excitonic transport driven by repulsive dipolar interaction in a van der Waals heterostructure. Nature Photonics, 2022, 16, 79-85.	31.4	48
51	Evidence for a monolayer excitonic insulator. Nature Physics, 2022, 18, 87-93.	16.7	70
52	High-mobility p-channel wide-bandgap transistors based on hydrogen-terminated diamond/hexagonal boron nitride heterostructures. Nature Electronics, 2022, 5, 37-44.	26.0	70
53	Optimizing cathodoluminescence microscopy of buried interfaces through nanoscale heterostructure design. Nanoscale, 2022, 14, 7569-7578.	5.6	2
54	Electrically Switchable Intervalley Excitons with Strong Two-Phonon Scattering in Bilayer WSe_2 . Nano Letters, 2022, 22, 1829-1835.	9.1	11

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55	Evidence for a single-layer van der Waals multiferroic. <i>Nature</i> , 2022, 602, 601-605.	27.8	104
56	Large terahertz electric dipole of a single graphene quantum dot. <i>Physical Review Research</i> , 2022, 4, .	3.6	2
57	Enhanced Radiative Exciton Recombination in Monolayer WS ₂ on the hBN Substrate Competing with Nonradiative Exciton Annihilation. <i>ACS Photonics</i> , 2022, 9, 873-879.	6.6	15
58	Tunable angle-dependent electrochemistry at twisted bilayer graphene with moiré flat bands. <i>Nature Chemistry</i> , 2022, 14, 267-273.	13.6	51
59	Electron recoil effect in electrically tunable MoS ₂ monolayers. <i>Physical Review B</i> , 2022, 105, .	3.2	1
60	Subband-resolved momentum-conserved resonant tunneling in monolayer graphene/h-BN/ABA-trilayer graphene small-twist-angle tunneling device. <i>Applied Physics Letters</i> , 2022, 120, 083102.	3.3	5
61	Temperature-induced phase transitions in the correlated quantum Hall state of bilayer graphene. <i>Physical Review B</i> , 2022, 105, .	3.2	2
62	Spatiotemporally controlled room-temperature exciton transport under dynamic strain. <i>Nature Photonics</i> , 2022, 16, 242-247.	31.4	24
63	Hybridized Exciton-Photon-Phonon States in a Transition Metal Dichalcogenide van der Waals Heterostructure Microcavity. <i>Physical Review Letters</i> , 2022, 128, 087401.	7.8	13
64	Isospin order in superconducting magic-angle twisted trilayer graphene. <i>Nature Physics</i> , 2022, 18, 522-527.	16.7	27
65	Trion-trion annihilation in monolayer WS ₂ . <i>Physical Review B</i> , 2022, 105, .	3.2	1
66	Phonon Lifetimes in Boron Isotope-Enriched Graphene Hexagonal Boron Nitride Devices. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, .	2.4	2
67	Breakdown of semiclassical description of thermoelectricity in near-magic angle twisted bilayer graphene. <i>Nature Communications</i> , 2022, 13, 1522.	12.8	12
68	Giant Photoresponse Enhancement in Mixed-Dimensional Van der Waals Heterostructure through Dielectric Engineering (<i>Adv. Mater. Interfaces</i> 9/2022). <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	0
69	Spin-Phonon Coupling in Ferromagnetic Monolayer Chromium Tribromide. <i>Advanced Materials</i> , 2022, 34, e2108506.	21.0	8
70	Magnon-Coupled Intralayer Moiré Trion in Monolayer Semiconductor Antiferromagnet Heterostructures. <i>Advanced Materials</i> , 2022, 34, e2200301.	21.0	7
71	Visualization of Dark Excitons in Semiconductor Monolayers for High-Sensitivity Strain Sensing. <i>Nano Letters</i> , 2022, 22, 3087-3094.	9.1	6
72	Phase-dependent microwave response of a graphene Josephson junction. <i>Physical Review Research</i> , 2022, 4, .	3.6	13

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73	Structure of the moiré exciton captured by imaging its electron and hole. <i>Nature</i> , 2022, 603, 247-252.	27.8	51
74	Fluorinated Graphene Contacts and Passivation Layer for MoS ₂ Field Effect Transistors. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	5
75	Tunable and giant valley-selective Hall effect in gapped bilayer graphene. <i>Science</i> , 2022, 375, 1398-1402.	12.6	26
76	Second harmonic generation control in twisted bilayers of transition metal dichalcogenides. <i>Physical Review B</i> , 2022, 105, .	3.2	15
77	Spectroscopy signatures of electron correlations in a trilayer graphene/hBN moiré superlattice. <i>Science</i> , 2022, 375, 1295-1299.	12.6	30
78	Counterintuitive gate dependence of weak antilocalization in bilayer $\text{graphene}/\text{WSe}_2$ heterostructures. <i>Physical Review B</i> , 2022, 105, .	3.2	17
79	Long-range transport of 2D excitons with acoustic waves. <i>Nature Communications</i> , 2022, 13, 1334.	12.8	23
80	Dipolar excitonic insulator in a moiré lattice. <i>Nature Physics</i> , 2022, 18, 395-400.	16.7	65
81	Dominating Interlayer Resonant Energy Transfer in Type-II 2D Heterostructure. <i>ACS Nano</i> , 2022, 16, 3861-3869.	14.6	11
82	Quasi-1D Electronic Transport in a 2D Magnetic Semiconductor. <i>Advanced Materials</i> , 2022, 34, e2109759.	21.0	40
83	Direct STM measurements of R-type and H-type twisted MoSe ₂ /WSe ₂ . <i>APL Materials</i> , 2022, 10, .	5.1	9
84	Steady Floquet-Andreev states in graphene Josephson junctions. <i>Nature</i> , 2022, 603, 421-426.	27.8	27
85	A monolithically sculpted van der Waals nano-opto-electro-mechanical coupler. <i>Light: Science and Applications</i> , 2022, 11, 48.	16.6	7
86	Dark-Exciton Driven Energy Funneling into Dielectric Inhomogeneities in Two-Dimensional Semiconductors. <i>Nano Letters</i> , 2022, 22, 2843-2850.	9.1	17
87	Engineering Optically Active Defects in Hexagonal Boron Nitride Using Focused Ion Beam and Water. <i>ACS Nano</i> , 2022, 16, 3695-3703.	14.6	28
88	Fermi-Level Pinning-Free WSe ₂ Transistors via 2D Van der Waals Metal Contacts and Their Circuits. <i>Advanced Materials</i> , 2022, 34, e2109899.	21.0	48
89	Mechanisms of Interface Cleaning in Heterostructures Made from Polymer-Contaminated Graphene. <i>Small</i> , 2022, 18, e2201248.	10.0	6
90	Orderly disorder in magic-angle twisted trilayer graphene. <i>Science</i> , 2022, 376, 193-199.	12.6	63

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91	Negatively charged boron vacancy center in diamond. <i>Physical Review B</i> , 2022, 105, .	3.2	3
92	Non-invasive digital etching of van der Waals semiconductors. <i>Nature Communications</i> , 2022, 13, 1844.	12.8	8
93	Dynamics of Interfacial Bubble Controls Adhesion Mechanics in Van der Waals Heterostructure. <i>Nano Letters</i> , 2022, 22, 3612-3619.	9.1	4
94	All About the Interface: Do Residual Contaminants at A High-Quality h-BN Monolayer Perylene Diimide Interface Cause Charge Trapping? (<i>Adv. Mater. Interfaces</i> 10/2022). <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	0
95	Broken-symmetry states at half-integer band fillings in twisted bilayer graphene. <i>Nature Physics</i> , 2022, 18, 639-643.	16.7	17
96	Efficient valley polarization of charged excitons and resident carriers in Molybdenum disulfide monolayers by optical pumping. <i>Communications Physics</i> , 2022, 5, .	5.3	7
97	Topological charge density waves at half-integer filling of a moiré superlattice. <i>Nature Physics</i> , 2022, 18, 42-47.	16.7	34
98	Moiré nematic phase in twisted double bilayer graphene. <i>Nature Physics</i> , 2022, 18, 196-202.	16.7	51
99	Improving the Optical Quality of MoSe ₂ and WS ₂ Monolayers with Complete h-BN Encapsulation by High-Temperature Annealing. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2255-2262.	8.0	7
100	In-Plane Field-Driven Excitonic Electro-Optic Modulation in Monolayer Semiconductor. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	4
101	Graphene Whisperitronics: Transducing Whispering Gallery Modes into Electronic Transport. <i>Nano Letters</i> , 2022, 22, 128-134.	9.1	6
102	Band Structure Engineering of WSe ₂ Homo-junction Interfaces via Thickness Control. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	4
103	Ultrahigh Anisotropic Transport Properties of Black Phosphorus Field Effect Transistors Realized by Edge Contact. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	5
104	Visualizing band structure hybridization and superlattice effects in twisted MoS ₂ /WS ₂ heterobilayers. <i>2D Materials</i> , 2022, 9, 015032.	4.4	9
105	Bulk and edge properties of twisted double bilayer graphene. <i>Nature Physics</i> , 2022, 18, 48-53.	16.7	14
106	Free Trions with Near-Unity Quantum Yield in Monolayer MoSe ₂ . <i>ACS Nano</i> , 2022, 16, 140-147.	14.6	19
107	Thermodynamics of free and bound magnons in graphene. <i>Nature Physics</i> , 2022, 18, 37-41.	16.7	10
108	Imaging the effect of high photoexcited densities on valley polarization and coherence in MoS ₂ monolayers. <i>Npj 2D Materials and Applications</i> , 2022, 6, .	7.9	0

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109	An elemental diet protects mouse salivary glands from 5-fluorouracil-induced atrophy. <i>Oncology Letters</i> , 2022, 23, 178.	1.8	1
110	Clean BN-Encapsulated 2D FETs with Lithography-Compatible Contacts. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18697-18703.	8.0	9
111	Intelligent infrared sensing enabled by tunable moiré quantum geometry. <i>Nature</i> , 2022, 604, 266-272.	27.8	69
112	Dissipation-enabled hydrodynamic conductivity in a tunable bandgap semiconductor. <i>Science Advances</i> , 2022, 8, eabi8481.	10.3	15
113	Spontaneous Gully-Polarized Quantum Hall States in ABA Trilayer Graphene. <i>Nano Letters</i> , 2022, 22, 3317-3322.	9.1	3
114	The effect of dielectric environment on the brightening of neutral and charged dark excitons in WSe ₂ monolayer. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	5
115	A High-Quality Entropy Source Using van der Waals Heterojunction for True Random Number Generation. <i>ACS Nano</i> , 2022, 16, 5898-5908.	14.6	6
116	Performance Enhancement of SnS/BN Heterostructure p-Type FET via the Thermodynamically Predicted Surface Oxide Conversion Method. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19928-19937.	8.0	4
117	Quantum critical behaviour in magic-angle twisted bilayer graphene. <i>Nature Physics</i> , 2022, 18, 633-638.	16.7	66
118	Bilayer WSe ₂ as a natural platform for interlayer exciton condensates in the strong coupling limit. <i>Nature Nanotechnology</i> , 2022, 17, 577-582.	31.5	22
119	Unusual magnetotransport in twisted bilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118482119.	7.1	13
120	Light-induced ferromagnetism in moiré superlattices. <i>Nature</i> , 2022, 604, 468-473.	27.8	61
121	Optical absorption of interlayer excitons in transition-metal dichalcogenide heterostructures. <i>Science</i> , 2022, 376, 406-410.	12.6	42
122	Interlayer excitons in MoSe ₂ /2D perovskite hybrid heterostructures – the interplay between charge and energy transfer. <i>Nanoscale</i> , 2022, 14, 8085-8095.	5.6	11
123	Moiré Modulation of Van Der Waals Potential in Twisted Hexagonal Boron Nitride. <i>ACS Nano</i> , 2022, 16, 7589-7604.	14.6	12
124	Correlated Hofstadter spectrum and flavour phase diagram in magic-angle twisted bilayer graphene. <i>Nature Physics</i> , 2022, 18, 825-831.	16.7	26
125	Terahertz radiation induced circular Hall effect in graphene. <i>Physical Review B</i> , 2022, 105, .	3.2	3
126	Interaction-driven giant thermopower in magic-angle twisted bilayer graphene. <i>Nature Physics</i> , 2022, 18, 691-698.	16.7	16

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127	Nanoscale solid-state nuclear quadrupole resonance spectroscopy using depth-optimized nitrogen-vacancy ensembles in diamond. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	11
128	One-dimensional Luttinger liquids in a two-dimensional moiré lattice. <i>Nature</i> , 2022, 605, 57-62.	27.8	44
129	Coupling between magnetic order and charge transport in a two-dimensional magnetic semiconductor. <i>Nature Materials</i> , 2022, 21, 754-760.	27.5	60
130	Tunable multi-bands in twisted double bilayer graphene. <i>2D Materials</i> , 2022, 9, 034001.	4.4	2
131	Light emission properties of mechanical exfoliation induced extended defects in hexagonal boron nitride flakes. <i>2D Materials</i> , 2022, 9, 035018.	4.4	5
132	Twisted black phosphorus-based van der Waals stacks for fiber-integrated polarimeters. <i>Science Advances</i> , 2022, 8, eabo0375.	10.3	30
133	Imaging tunable quantum Hall broken-symmetry orders in graphene. <i>Nature</i> , 2022, 605, 51-56.	27.8	30
134	Giant Effects of Interlayer Interaction on Valence-Band Splitting in Transition Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8667-8675.	3.1	2
135	Direct Patterning of Optoelectronic Nanostructures Using Encapsulated Layered Transition Metal Dichalcogenides. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23775-23784.	8.0	8
136	Ultrasharp Lateral p-n Junctions in Modulation-Doped Graphene. <i>Nano Letters</i> , 2022, 22, 4124-4130.	9.1	12
137	Exploring the structural and optoelectronic properties of natural insulating phlogopite in van der Waals heterostructures. <i>2D Materials</i> , 2022, 9, 035007.	4.4	12
138	Imaging of Submicroampere Currents in Bilayer Graphene Using a Scanning Diamond Magnetometer. <i>Physical Review Applied</i> , 2022, 17, .	3.8	12
139	Catalytic Growth of Ultralong Graphene Nanoribbons on Insulating Substrates. <i>Advanced Materials</i> , 2022, 34, e2200956.	21.0	12
140	Dynamic Tuning of Moiré Superlattice Morphology by Laser Modification. <i>ACS Nano</i> , 2022, 16, 8172-8180.	14.6	3
141	Defect-assisted tunneling spectroscopy of electronic band structure in twisted bilayer graphene/hexagonal boron nitride moiré superlattices. <i>Applied Physics Letters</i> , 2022, 120, 203103.	3.3	1
142	Quantum transport in CVD graphene synthesized with liquid carbon precursor. <i>Nanotechnology</i> , 2022, 33, 355601.	2.6	2
143	Electrically tunable quantum confinement of neutral excitons. <i>Nature</i> , 2022, 606, 298-304.	27.8	25
144	Observation of Reentrant Correlated Insulators and Interaction-Driven Fermi-Surface Reconstructions at One Magnetic Flux Quantum per Moiré Unit Cell in Magic-Angle Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2022, 128, .	7.8	17

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145	Ultrafast Operation of 2D Heterostructured Nonvolatile Memory Devices Provided by the Strong Short-Time Dielectric Breakdown Strength of <i>h</i> -BN. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 25659-25669.	8.0	4
146	Spontaneous-polarization-induced photovoltaic effect in rhombohedrally stacked MoS ₂ . <i>Nature Photonics</i> , 2022, 16, 469-474.	31.4	35
147	Single-Shot Spin Readout in Graphene Quantum Dots. <i>PRX Quantum</i> , 2022, 3, .	9.2	18
148	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
149	Brightening of a dark monolayer semiconductor via strong light-matter coupling in a cavity. <i>Nature Communications</i> , 2022, 13, .	12.8	8
150	Berry curvature dipole senses topological transition in a moiré superlattice. <i>Nature Physics</i> , 2022, 18, 765-770.	16.7	51
151	Band conductivity oscillations in a gate-tunable graphene superlattice. <i>Nature Communications</i> , 2022, 13, .	12.8	17
152	Highly Nonlinear Biexcitonic Photocurrent from Ultrafast Interlayer Charge Transfer. <i>ACS Nano</i> , 2022, 16, 9728-9735.	14.6	3
153	Current Injection into Single-Crystalline Carbon-Doped <i>h</i> -BN toward Electronic and Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 25731-25740.	8.0	2
154	Site-Specific Fabrication of Blue Quantum Emitters in Hexagonal Boron Nitride. <i>ACS Photonics</i> , 2022, 9, 2170-2177.	6.6	33
155	CVD Bilayer Graphene Spin Valves with 26 $\hat{\mu}$ m Spin Diffusion Length at Room Temperature. <i>Nano Letters</i> , 2022, 22, 4949-4955.	9.1	7
156	Resonant Tunneling between Quantized Subbands in van der Waals Double Quantum Well Structure Based on Few-Layer WSe ₂ . <i>Nano Letters</i> , 2022, 22, 4640-4645.	9.1	7
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