James C Hone

List of Publications by Year
in descending order

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499	113,117	614 124	140 330
papers	citations	h-index	g-index

519	519	519	68673
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Making high-quality quantum microwave devices with van der Waals superconductors. Journal of Physics Condensed Matter, 2022, 34, 103001.	0.7	2
2	Artificial Neuron Networks Enabled Identification and Characterizations of 2D Materials and van der Waals Heterostructures. ACS Nano, 2022, 16, 2721-2729.	7.3	22
3	Electroluminescence of atoms in a graphene nanogap. Science Advances, 2022, 8, eabj1742.	4.7	1
4	Identifying the Transition Order in an Artificial Ferroelectric van der Waals Heterostructure. Nano Letters, 2022, 22, 1265-1269.	4.5	23
5	Interfacial ferroelectricity in rhombohedral-stacked bilayer transition metal dichalcogenides. Nature Nanotechnology, 2022, 17, 367-371.	15.6	167
6	Crossover between strongly coupled and weakly coupled exciton superfluids. Science, 2022, 375, 205-209.	6.0	33
7	Mixed-Dimensional 1D/2D van der Waals Heterojunction Diodes and Transistors in the Atomic Limit. ACS Nano, 2022, 16, 1639-1648.	7.3	15
8	Spin-orbitâ€“driven ferromagnetism at half moirÃ© filling in magic-angle twisted bilayer graphene. Science, 2022, 375, 437-441.	6.0	61
9	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides. Nature Communications, 2022, 13, 542.	5.8	23
10	In-Plane Anisotropy in Biaxial ReS₂ Crystals Probed by Nano-Optical Imaging of Waveguide Modes. ACS Photonics, 2022, 9, 443-451.	3.2	12
11	Nanometer-Scale Lateral pâ€“n Junctions in Graphene/Î±-RuCl₃ Heterostructures. Nano Letters, 2022, 22, 1946-1953.	4.5	25
12	Tunable and giant valley-selective Hall effect in gapped bilayer graphene. Science, 2022, 375, 1398-1402.	6.0	26
13	Near-field nanoscopy of excitons and ultrafast interlayer dynamics in van der Waals crystals. , 2022, , .		0
14	Dipolar excitonic insulator in a moirÃ© lattice. Nature Physics, 2022, 18, 395-400.	6.5	65
15	Dark-Exciton Driven Energy Funneling into Dielectric Inhomogeneities in Two-Dimensional Semiconductors. Nano Letters, 2022, 22, 2843-2850.	4.5	17
16	Improving the Optical Quality of MoSe₂ and WS₂ Monolayers with Complete h-BN Encapsulation by High-Temperature Annealing. ACS Applied Materials & Interfaces, 2022, 14, 2255-2262.	4.0	7
17	Free Trions with Near-Unity Quantum Yield in Monolayer MoSe₂. ACS Nano, 2022, 16, 140-147.	7.3	19
18	Dissipation-enabled hydrodynamic conductivity in a tunable bandgap semiconductor. Science Advances, 2022, 8, eabi8481.	4.7	15

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19	Nanoscale Optical Imaging of 2D Semiconductor Stacking Orders by Excitonâ€Enhanced Second Harmonic Generation. Advanced Optical Materials, 2022, 10, .	3.6	9
20	Bilayer WSe2 as a natural platform for interlayer exciton condensates in the strong coupling limit. Nature Nanotechnology, 2022, 17, 577-582.	15.6	22
21	Phonon-Limited Mobility in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>h</mml:mi></mml:mrow></mml:math> -BN Encapsulated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>A</mml:mi><mml:mi>B</mml:mi></mml:mrow></mml:math> -Stacked Bilayer Graphene. Physical Review Letters, 2022, 128, .	2.9	5
22	Chemical Vapor-Deposited Graphene on Ultraflat Copper Foils for van der Waals Hetero-Assembly. ACS Omega, 2022, 7, 22626-22632.	1.6	5
23	Observation of Wigner cusps in a metallic carbon nanotube. Solid State Communications, 2022, 353, 114834.	0.9	0
24	Surface plasmons induce topological transition in graphene/Î±-MoO3 heterostructures. Nature Communications, 2022, 13, .	5.8	30
25	Focusâ€Tunable Planar Lenses by Controlled Carriers over Exciton. Advanced Optical Materials, 2021, 9, 2001526.	3.6	5
26	Hyperbolic Cooper-Pair Polaritons in Planar Graphene/Cuprate Plasmonic Cavities. Nano Letters, 2021, 21, 308-316.	4.5	13
27	Enhanced Photoluminescence of Multiple Two-Dimensional van der Waals Heterostructures Fabricated by Layer-by-Layer Oxidation of MoS₂. ACS Applied Materials & Interfaces, 2021, 13, 1245-1252.	4.0	28
28	Optical parametric amplification by monolayer transition metal dichalcogenides. Nature Photonics, 2021, 15, 6-10.	15.6	74
29	Antiferromagnetic proximity coupling between semiconductor quantum emitters in WSe2 and van der Waals ferromagnets. Nanoscale, 2021, 13, 832-841.	2.8	9
30	Tuning layer-hybridized moirÃ© excitons by the quantum-confined Stark effect. Nature Nanotechnology, 2021, 16, 52-57.	15.6	60
31	MoirÃ© metrology of energy landscapes in van der Waals heterostructures. Nature Communications, 2021, 12, 242.	5.8	60
32	Manipulation of Exciton Dynamics and Annihilation in Single-Layer WSe2 using a Toroidal Dielectric Metasurface. , 2021, , .		0
33	Intrinsic donor-bound excitons in ultraclean monolayer semiconductors. Nature Communications, 2021, 12, 871.	5.8	29
34	Dual-Gated Graphene Devices for Near-Field Nano-imaging. Nano Letters, 2021, 21, 1688-1693.	4.5	13
35	Deep moirÃ© potentials in twisted transition metal dichalcogenide bilayers. Nature Physics, 2021, 17, 720-725.	6.5	124
36	MoirÃ© heterostructures as a condensed-matter quantum simulator. Nature Physics, 2021, 17, 155-163.	6.5	317

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37	Programmable hyperbolic polaritons in van der Waals semiconductors. Science, 2021, 371, 617-620.	6.0	58
38	Diffusivity Reveals Three Distinct Phases of Interlayer Excitons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow><mml:mi>MoSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> Heterobilayers. Physical Review Letters, 2021, 126, 106804.	2.9	49
39	Tunable Exciton-Optomechanical Coupling in Suspended Monolayer MoSe₂. Nano Letters, 2021, 21, 2538-2543.	4.5	25
40	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. Science Advances, 2021, 7, .	4.7	73
41	Stripe phases in WSe2/WS2 moirÃ© superlattices. Nature Materials, 2021, 20, 940-944.	13.3	137
42	Hyperbolic enhancement of photocurrent patterns in minimally twisted bilayer graphene. Nature Communications, 2021, 12, 1641.	5.8	34
43	Enhanced Superconductivity in Monolayer T_d-MoTe₂. Nano Letters, 2021, 21, 2505-2511.	4.5	49
44	Enhanced nonlinear interaction of polaritons via excitonic Rydberg states in monolayer WSe2. Nature Communications, 2021, 12, 2269.	5.8	55
45	Stabilization of Chemical-Vapor-Deposition-Grown WS2 Monolayers at Elevated Temperature with Hexagonal Boron Nitride Encapsulation. ACS Applied Materials & Interfaces, 2021, 13, 31271-31278.	4.0	4
46	Optically facet-resolved reaction anisotropy in two-dimensional transition metal dichalcogenides. 2D Materials, 2021, 8, 035045.	2.0	2
47	Low-Resistance p-Type Ohmic Contacts to Ultrathin WSe₂ by Using a Monolayer Dopant. ACS Applied Electronic Materials, 2021, 3, 2941-2947.	2.0	14
48	Long-Lived Phonon Polaritons in Hyperbolic Materials. Nano Letters, 2021, 21, 5767-5773.	4.5	38
49	Chemical Dopantâ€Free Doping by Annealing and Electron Beam Irradiation on 2D Materials. Advanced Electronic Materials, 2021, 7, 2100449.	2.6	14
50	Analytical measurements of contact resistivity in two-dimensional WSe₂ field-effect transistors. 2D Materials, 2021, 8, 045019.	2.0	9
51	Andreev Reflections in NbN/Graphene Junctions under Large Magnetic Fields. Nano Letters, 2021, 21, 8229-8235.	4.5	3
52	Enhancing Hydrogen Evolution Activity of Monolayer Molybdenum Disulfide via a Molecular Proton Mediator. ACS Catalysis, 2021, 11, 12159-12169.	5.5	19
53	Nanoscale lattice dynamics in hexagonal boron nitride moirÃ© superlattices. Nature Communications, 2021, 12, 5741.	5.8	34
54	Quantum criticality in twisted transition metal dichalcogenides. Nature, 2021, 597, 345-349.	13.7	163

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55	MoirÃ©less correlations in ABCA graphene. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	59
56	Creation of moirel•bands in a monolayer semiconductor by spatially periodic dielectric screening. Nature Materials, 2021, 20, 645-649.	13.3	45
57	Nonmonotonic Temperature-Dependent Dissipation at Nonequilibrium in Atomically Thin Clean-Limit Superconductors. Nano Letters, 2021, 21, 583-589.	4.5	3
58	Damage-Free Atomic Layer Etch of WSe₂: A Platform for Fabricating Clean Two-Dimensional Devices. ACS Applied Materials & Interfaces, 2021, 13, 1930-1942.	4.0	24
59	Optical dispersion of valley-hybridised coherent excitons with momentum-dependent valley polarisation in monolayer semiconductor. 2D Materials, 2021, 8, 015009.	2.0	9
60	Electrical characterization of 2D materials-based field-effect transistors. 2D Materials, 2021, 8, 012002.	2.0	111
61	High carrier mobility in graphene doped using a monolayer of tungsten oxyselenide. Nature Electronics, 2021, 4, 731-739.	13.1	41
62	Deep Learning Analysis of Polaritonic Wave Images. ACS Nano, 2021, 15, 18182-18191.	7.3	10
63	Electrical Modulation of Exciton Complexes in Light-Emitting Tunnel Transistors of a van der Waals Heterostructure. ACS Photonics, 2021, 8, 3455-3461.	3.2	3
64	Nonlinear nanoelectrodynamics of a Weyl metal. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
65	Ultrafast Ferroelectric Ordering on the Surface of a Topological Semimetal MoTe₂. Nano Letters, 2021, 21, 9903-9908.	4.5	4
66	Manipulation of Exciton Dynamics in Single-Layer WSe₂ Using a Toroidal Dielectric Metasurface. Nano Letters, 2021, 21, 9930-9938.	4.5	14
67	Miniaturizing Transmon Qubits Using van der Waals Materials. Nano Letters, 2021, 21, 10122-10126.	4.5	12
68	Nickel particleâ€“enabled width-controlled growth of bilayer molybdenum disulfide nanoribbons. Science Advances, 2021, 7, eabk1892.	4.7	19
69	Electron-hole hybridization in bilayer graphene. National Science Review, 2020, 7, 248-253.	4.6	5
70	Magnetic field mixing and splitting of bright and dark excitons in monolayer MoSe ₂. 2D Materials, 2020, 7, 015017.	2.0	45
71	Continuous Wave Sum Frequency Generation and Imaging of Monolayer and Heterobilayer Two-Dimensional Semiconductors. ACS Nano, 2020, 14, 708-714.	7.3	41
72	Excitons in strain-induced one-dimensional moirÃ© potentials at transition metal dichalcogenide heterojunctions. Nature Materials, 2020, 19, 1068-1073.	13.3	169

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73	Imaging strain-localized excitons in nanoscale bubbles of monolayer WSe2 at room temperature. Nature Nanotechnology, 2020, 15, 854-860.	15.6	134
74	Femtosecond exciton dynamics in WSe2 optical waveguides. Nature Communications, 2020, 11, 3567.	5.8	31
75	High-resolution optical micro-spectroscopy extending from the near-infrared to the vacuum-ultraviolet. Review of Scientific Instruments, 2020, 91, 073107.	0.6	1
76	Charge-Transfer Plasmon Polaritons at Graphene/Î±-RuCl₃ Interfaces. Nano Letters, 2020, 20, 8438-8445.	4.5	53
77	Correlated insulating states at fractional fillings of moirÃ© superlattices. Nature, 2020, 587, 214-218.	13.7	315
78	Directional ultrafast charge transfer in a WSe₂/MoSe₂ heterostructure selectively probed by time-resolved SHG imaging microscopy. Nanoscale Horizons, 2020, 5, 1603-1609.	4.1	14
79	LIM-Nebulette Reinforces Podocyte Structural Integrity by Linking Actin and Vimentin Filaments. Journal of the American Society of Nephrology: JASN, 2020, 31, 2372-2391.	3.0	22
80	Cell shape regulates subcellular organelle location to control early Ca2+ signal dynamics in vascular smooth muscle cells. Scientific Reports, 2020, 10, 17866.	1.6	18
81	Pressure Induced Topological Quantum Phase Transition in Weyl Semimetal Td-MoTe2. Journal of the Physical Society of Japan, 2020, 89, 094707.	0.7	4
82	Multioperationâ€Mode Lightâ€Emitting Fieldâ€Effect Transistors Based on van der Waals Heterostructure. Advanced Materials, 2020, 32, e2003567.	11.1	12
83	Highly confined in-plane propagating exciton-polaritons on monolayer semiconductors. 2D Materials, 2020, 7, 035031.	2.0	32
84	Direct Measurement of the Radiative Pattern of Bright and Dark Excitons and Exciton Complexes in Encapsulated Tungsten Diselenide. Scientific Reports, 2020, 10, 8091.	1.6	14
85	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. Nature Materials, 2020, 19, 861-866.	13.3	544
86	Visualization of moirÃ© superlattices. Nature Nanotechnology, 2020, 15, 580-584.	15.6	187
87	Exciton Dipole Orientation of Strain-Induced Quantum Emitters in WSe₂. Nano Letters, 2020, 20, 5119-5126.	4.5	24
88	Electrically focus-tuneable ultrathin lens for high-resolution square subpixels. Light: Science and Applications, 2020, 9, 98.	7.7	29
89	Odd- and even-denominator fractional quantum Hall states in monolayer WSe2. Nature Nanotechnology, 2020, 15, 569-573.	15.6	48
90	Disassembling 2D van der Waals crystals into macroscopic monolayers and reassembling into artificial lattices. Science, 2020, 367, 903-906.	6.0	262

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91	Low-loss composite photonic platform based on 2D semiconductor monolayers. Nature Photonics, 2020, 14, 256-262.	15.6	140
92	Near-Unity Light Absorption in a Monolayer WS₂ Van der Waals Heterostructure Cavity. Nano Letters, 2020, 20, 3545-3552.	4.5	48
93	Second-harmonic imaging microscopy for time-resolved investigations of transition metal dichalcogenides. Journal of Physics Condensed Matter, 2020, 32, 485901.	0.7	3
94	Phonon-Polariton-Enhanced Nonlinearity in Hexagonal Boron Nitride. , 2020, , .		1
95	Tuning the ellipticity of harmonics generated in graphene. , 2020, , .		0
96	Platform for ultra-strong modulation in hybrid silicon nitride/2D material photonic structures. , 2020, , .		1
97	Engineering Atomic Defects in Hexagonal Boron Nitride via Resonant Optical Excitation of Phonons. , 2020, , .		0
98	Integrated Graphene Electro-Optic Modulator on Si3N4 with Increasing Bandwidth at Cryogenic Temperatures. , 2020, , .		0
99	Extremely Efficient Light-Exciton Interaction in a Monolayer WS2 van der Waals Heterostructure Cavity. , 2020, , .		0
100	High-performance integrated graphene electro-optic modulator at cryogenic temperature. Nanophotonics, 2020, 10, 99-104.	2.9	26
101	Strong Metasurfaceâ€“Josephson Plasma Resonance Coupling in Superconducting La 2â^' x Sr x CuO 4. Advanced Optical Materials, 2019, 7, 1900712.	3.6	9
102	Fragility of the dissipationless state in clean two-dimensional superconductors. Nature Physics, 2019, 15, 947-953.	6.5	29
103	Maximized electron interactions at the magic angle in twisted bilayer graphene. Nature, 2019, 572, 95-100.	13.7	644
104	High-performance monolayer MoS2 field-effect transistor with large-scale nitrogen-doped graphene electrodes for Ohmic contact. Applied Physics Letters, 2019, 115, .	1.5	27
105	Direct Optical Evidence of Free Excitons in a Monolayer Quantum Material and Effective-Mass Measurements. , 2019, , .		0
106	Effective Hexagonal Boron Nitride Passivation of Few-Layered InSe and GaSe to Enhance Their Electronic and Optical Properties. ACS Applied Materials & Interfaces, 2019, 11, 43480-43487.	4.0	44
107	The device level modulation of carrier transport in a 2D WSe₂ field effect transistor via a plasma treatment. Nanoscale, 2019, 11, 17368-17375.	2.8	29
108	Optical generation of high carrier densities in 2D semiconductor heterobilayers. Science Advances, 2019, 5, eaax0145.	4.7	80

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109	The Critical Role of Electrolyte Gating on the Hydrogen Evolution Performance of Monolayer MoS₂. Nano Letters, 2019, 19, 8118-8124.	4.5	33
110	Bandwidth Limitation of Directly Contacted Grapheneâ€“Silicon Optoelectronics. ACS Applied Electronic Materials, 2019, 1, 172-178.	2.0	7
111	Hybrid Metasurface-Based Mid-Infrared Biosensor for Simultaneous Quantification and Identification of Monolayer Protein. ACS Photonics, 2019, 6, 501-509.	3.2	47
112	Pairing states of composite fermions in double-layer graphene. Nature Physics, 2019, 15, 898-903.	6.5	54
113	Approaching the Intrinsic Limit in Transition Metal Diselenides via Point Defect Control. Nano Letters, 2019, 19, 4371-4379.	4.5	161
114	Spinâ€“orbit-driven band inversion in bilayer graphene by the van der Waals proximity effect. Nature, 2019, 571, 85-89.	13.7	126
115	Disorder in van der Waals heterostructures of 2D materials. Nature Materials, 2019, 18, 541-549.	13.3	390
116	A Fermiâ€Levelâ€Pinningâ€Free 1D Electrical Contact at the Intrinsic 2D MoS₂â€“Metal Junction. Advanced Materials, 2019, 31, e1808231.	11.1	108
117	Transferred via contacts as a platform for ideal two-dimensional transistors. Nature Electronics, 2019, 2, 187-194.	13.1	172
118	High-Quality Electrostatically Defined Hall Bars in Monolayer Graphene. Nano Letters, 2019, 19, 2583-2587.	4.5	16
119	Graphene transistor based on tunable Dirac fermion optics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6575-6579.	3.3	34
120	Sensitivity of the superconducting state in thin films. Science Advances, 2019, 5, eaau3826.	4.7	54
121	Large and reversible myosin-dependent forces in rigidity sensing. Nature Physics, 2019, 15, 689-695.	6.5	31
122	Single photon emission in WSe ₂ up 160â€‰K by quantum yield control. 2D Materials, 2019, 6, 035017.	2.0	53
123	High-Quality Magnetotransport in Graphene Using the Edge-Free Corbino Geometry. Physical Review Letters, 2019, 122, 137701.	2.9	62
124	Atomic Layer Etching (ALE) of WSe2 Yielding High Mobility p-FETs. , 2019, , .		0
125	Tunable crystal symmetry in grapheneâ€“boron nitride heterostructures with coexisting moirÃ© superlattices. Nature Nanotechnology, 2019, 14, 1029-1034.	15.6	114
126	Evidence of high-temperature exciton condensation in two-dimensional atomic double layers. Nature, 2019, 574, 76-80.	13.7	331

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127	An ultrafast symmetry switch in a Weyl semimetal. Nature, 2019, 565, 61-66.	13.7	307
128	Competing Fractional Quantum Hall and Electron Solid Phases in Graphene. Physical Review Letters, 2019, 122, 026802.	2.9	28
129	Thermal radiation control from hot graphene electrons coupled to a photonic crystal nanocavity. Nature Communications, 2019, 10, 109.	5.8	79
130	Patterning metal contacts on monolayer MoS2 with vanishing Schottky barriers using thermal nanolithography. Nature Electronics, 2019, 2, 17-25.	13.1	113
131	Ambipolar Memristive Phenomenon in Largeâ€Scale, Fewâ€Layered Î±MoO₃ Recrystallized Films. Advanced Materials Interfaces, 2019, 6, 1801591.	1.9	7
132	Composite photonic platform based on 2D semiconductor monolayers. , 2019, , .		2
133	Nonlinear Interaction of Rydberg Exciton-Polaritons in Two-Dimensional WSe2. , 2019, , .		2
134	Shedding light on excitonâ€™s nature in monolayer quantum material by optical dispersion measurements. Optics Express, 2019, 27, 37131.	1.7	14
135	No Tilt Angle Dependence of Grain Boundary on Mechanical Strength of Chemically Deposited Graphene Film. Journal of the Korean Ceramic Society, 2019, 56, 506-512.	1.1	1
136	THz-Pump UED-Probe on a Topological Weyl Semimetal. , 2019, , .		0
137	Near ultraviolet light emission in hexagonal boron nitride based van der Waals heterostructures. , 2019, , .		1
138	Cardiomyocytes Sense Matrix Rigidity through a Combination of Muscle and Non-muscle Myosin Contractions. Developmental Cell, 2018, 44, 326-336.e3.	3.1	101
139	Via Method for Lithography Free Contact and Preservation of 2D Materials. Nano Letters, 2018, 18, 1416-1420.	4.5	59
140	Ultrafast Graphene Light Emitters. Nano Letters, 2018, 18, 934-940.	4.5	109
141	The Impact of the Substrate Material on the Optical Properties of 2D WSe2 Monolayers. Semiconductors, 2018, 52, 565-571.	0.2	14
142	Ambipolar Landau levels and strong band-selective carrier interactions in monolayer WSe2. Nature Materials, 2018, 17, 411-415.	13.3	60
143	Mechanisms and criteria for failure in polycrystalline graphene. International Journal of Solids and Structures, 2018, 143, 232-244.	1.3	4
144	The influence of the environment on monolayer tungsten diselenide photoluminescence. Nano Structures Nano Objects, 2018, 15, 84-97.	1.9	21

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145	Spatially controlled electrostatic doping in graphene p-i-n junction for hybrid silicon photodiode. Npj 2D Materials and Applications, 2018, 2, .	3.9	31
146	Magnetism in semiconducting molybdenum dichalcogenides. Science Advances, 2018, 4, eaat3672.	4.7	92
147	Optical conductivity-based ultrasensitive mid-infrared biosensing on a hybrid metasurface. Light: Science and Applications, 2018, 7, 67.	7.7	98
148	Deterministic coupling of site-controlled quantum emitters in monolayer WSe2 to plasmonic nanocavities. Nature Nanotechnology, 2018, 13, 1137-1142.	15.6	198
149	Phase transition and electronic structure evolution of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoTe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml induced by W substitution. Physical Review B, 2018, 98, .	3.7	9
150	Efficient generation of neutral and charged biexcitons in encapsulated WSe2 monolayers. Nature Communications, 2018, 9, 3718.	5.8	133
151	Monolayer Molybdenum Disulfide Transistors with Single-Atom-Thick Gates. Nano Letters, 2018, 18, 3807-3813.	4.5	88
152	Fundamental limits to graphene plasmonics. Nature, 2018, 557, 530-533.	13.7	401
153	Oxygen-Promoted Chemical Vapor Deposition of Graphene on Copper: A Combined Modeling and Experimental Study. ACS Nano, 2018, 12, 9372-9380.	7.3	30
154	Impact ionization by hot carriers in a black phosphorus field effect transistor. Nature Communications, 2018, 9, 3414.	5.8	41
155	Twistable electronics with dynamically rotatable heterostructures. Science, 2018, 361, 690-693.	6.0	387
156	Dielectric Dispersion and High Field Response of Multilayer Hexagonal Boron Nitride. Advanced Functional Materials, 2018, 28, 1804235.	7.8	38
157	Fast thermal relaxation in cavity-coupled graphene bolometers with a Johnson noise read-out. Nature Nanotechnology, 2018, 13, 797-801.	15.6	66
158	Layer dependence of third-harmonic generation in thick multilayer graphene. Physical Review Materials, 2018, 2, .	0.9	6
159	Small-signal model for heterogeneous integrated graphene-silicon photonics. , 2018, , .		2
160	Giant electro-refractive modulation of monolayer WS2 embedded in photonic structures. , 2018, , .		3
161	The influence of hBN on the pump-dependent time-evolution of monolayer photoluminescence in WSe2. , 2018, , .		0
162	Single-molecule Thermometry by Carbon Nanotube Excitons Coupled to Plasmonic Nanocavities. , 2018, , .		0

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163	Exciton Dynamics in WSe2 Monolayers for Different Stacking Schemes Involving h-BN. , 2018, , .		0
164	Density-dependent excitonic properties and dynamics in 2D heterostructures consisting of boron nitride and monolayer or few-layer tungsten diselenide. , 2018, , .		0
165	Exceptionally large migration length of carbon and topographically-facilitated self-limiting molecular beam epitaxial growth of graphene on hexagonal boron nitride. Carbon, 2017, 114, 579-584.	5.4	12
166	Direct observation of grain boundaries in chemical vapor deposited graphene. Carbon, 2017, 115, 147-153.	5.4	22
167	Engineering the Structural and Electronic Phases of MoTe₂ through W Substitution. Nano Letters, 2017, 17, 1616-1622.	4.5	128
168	Grapheneâ€Assisted Antioxidation of Tungsten Disulfide Monolayers: Substrate and Electricâ€Field Effect. Advanced Materials, 2017, 29, 1603898.	11.1	47
169	Nanobubble induced formation of quantum emitters in monolayer semiconductors. 2D Materials, 2017, 4, 021019.	2.0	76
170	Real-time monitoring of insulin using a graphene aptameric nanosensor. , 2017, , .		0
171	A biomimetic gelatin-based platform elicits a pro-differentiation effect on podocytes through mechanotransduction. Scientific Reports, 2017, 7, 43934.	1.6	32
172	Influence of the substrate material on the optical properties of tungsten diselenide monolayers. 2D Materials, 2017, 4, 025045.	2.0	80
173	Thickness-dependent Schottky barrier height of MoS₂field-effect transistors. Nanoscale, 2017, 9, 6151-6157.	2.8	120
174	Approaching the intrinsic photoluminescence linewidth in transition metal dichalcogenide monolayers. 2D Materials, 2017, 4, 031011.	2.0	242
175	A large-scale NEMS light-emitting array based on CVD graphene (Conference Presentation). , 2017, , .		1
176	Universality of periodicity as revealed from interlayer-mediated cracks. Scientific Reports, 2017, 7, 43400.	1.6	8
177	Interfacial Charge Transfer Circumventing Momentum Mismatch at Two-Dimensional van der Waals Heterojunctions. Nano Letters, 2017, 17, 3591-3598.	4.5	172
178	EGFR and HER2 activate rigidity sensing only on rigid matrices. Nature Materials, 2017, 16, 775-781.	13.3	68
179	Coulomb engineering of the bandgap and excitons in two-dimensional materials. Nature Communications, 2017, 8, 15251.	5.8	526
180	Tungsten Disulfide Monolayers: Grapheneâ€Assisted Antioxidation of Tungsten Disulfide Monolayers: Substrate and Electricâ€Field Effect (Adv. Mater. 18/2017). Advanced Materials, 2017, 29, .	11.1	0

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181	Electrically-driven GHz range ultrafast graphene light emitter (Conference Presentation). , 2017, , .		0
182	Electrostatic Screening of Charged Defects in Monolayer MoS₂. Journal of Physical Chemistry Letters, 2017, 8, 2148-2152.	2.1	40
183	Epitaxially Selfâ€Assembled Alkane Layers for Graphene Electronics. Advanced Materials, 2017, 29, 1603925.	11.1	24
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