

Young Hee Lee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

294
papers

21,653
citations

71
h-index

142
g-index

328
ext. papers

25,234
ext. citations

12.1
avg, IF

7.08
L-index

#	Paper	IF	Citations
294	Non-oxidized bare copper nanoparticles with surface excess electrons in air.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	2
293	Locally enhanced light-matter interaction of MoS ₂ monolayers at density-controllable nanogrooves of template-stripped Ag films. <i>Current Applied Physics</i> , 2022 , 33, 59-65	2.6	3
292	Unusually large exciton binding energy in multilayered 2H-MoTe ₂ .. <i>Scientific Reports</i> , 2022 , 12, 4543	4.9	0
291	Large-scale synthesis of graphene and other 2D materials towards industrialization.. <i>Nature Communications</i> , 2022 , 13, 1484	17.4	8
290	Flat-surface-assisted and self-regulated oxidation resistance of Cu(111).. <i>Nature</i> , 2022 , 603, 434-438	50.4	4
289	Escalating ferromagnetic order via Se-vacancy near vanadium in WSe monolayer.. <i>Advanced Materials</i> , 2021 , e2106551	24	4
288	Quantum sensing of thermoelectric power in low-dimensional materials. <i>Advanced Materials</i> , 2021 , e2106871	24	0
287	Gate-Tunable Magnetism via Resonant Se-Vacancy Levels in WSe. <i>Advanced Science</i> , 2021 , e2102911	13.6	2
286	Harnessing Thermoelectric Puddles the Stacking Order and Electronic Screening in Graphene. <i>ACS Nano</i> , 2021 , 15, 5397-5404	16.7	1
285	Two-Dimensional Cold Electron Transport for Steep-Slope Transistors. <i>ACS Nano</i> , 2021 , 15, 5762-5772	16.7	6
284	Evidence of itinerant holes for long-range magnetic order in the tungsten diselenide semiconductor with vanadium dopants. <i>Physical Review B</i> , 2021 , 103,	3.3	6
283	Epitaxial Single-Crystal Growth of Transition Metal Dichalcogenide Monolayers via the Atomic Sawtooth Au Surface. <i>Advanced Materials</i> , 2021 , 33, e2006601	24	21
282	Color of Copper/Copper Oxide. <i>Advanced Materials</i> , 2021 , 33, e2007345	24	10
281	Selective Pattern Growth of Atomically Thin MoSe Films via a Surface-Mediated Liquid-Phase Promoter. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 18056-18064	9.5	3
280	Multiple Magnetic Phases in Van Der Waals Mn-Doped SnS ₂ Semiconductor. <i>Advanced Functional Materials</i> , 2021 , 31, 2102560	15.6	6
279	Sub-bandgap activated charges transfer in a graphene-MoS ₂ -graphene heterostructure. <i>Nano Select</i> , 2021 , 2, 2019	3.1	3
278	Enhanced magnetic moment with cobalt dopant in SnS ₂ semiconductor. <i>APL Materials</i> , 2021 , 9, 051106	5.7	2

277	Infrared Proximity Sensors Based on Photo-Induced Tunneling in van der Waals Integration. <i>Advanced Functional Materials</i> , 2021 , 31, 2100966	15.6	2
276	Substitutional Vanadium Sulfide Nanodispersed in MoS Film for Pt-Scalable Catalyst. <i>Advanced Science</i> , 2021 , 8, e2003709	13.6	6
275	Deep Learning-Assisted Quantification of Atomic Dopants and Defects in 2D Materials. <i>Advanced Science</i> , 2021 , 8, e2101099	13.6	6
274	Carbon nanotube (CNT) metal composites exhibit greatly reduced radiation damage. <i>Acta Materialia</i> , 2021 , 203, 116483	8.4	12
273	Identifying Defect-Induced Trion in Monolayer WS Carrier Screening Engineering. <i>ACS Nano</i> , 2021 , 15, 2849-2857	16.7	5
272	Band restructuring of ordered/disordered blue TiO ₂ for visible light photocatalysis. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4822-4830	13	7
271	Hot carrier photovoltaics in van der Waals heterostructures. <i>Nature Reviews Physics</i> , 2021 , 3, 178-192	23.6	32
270	Probing giant Zeeman shift in vanadium-doped WSe ₂ via resonant magnetotunneling transport. <i>Physical Review B</i> , 2021 , 103,	3.3	3
269	Ideal PN photodiode using doping controlled WSe ₂ /MoSe ₂ lateral heterostructure. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3504-3512	7.1	5
268	Escalated Photocurrent with Excitation Energy in Dual-Gated MoTe. <i>Nano Letters</i> , 2021 , 21, 1976-1981	11.5	1
267	Real-space imaging of acoustic plasmons in large-area graphene grown by chemical vapor deposition. <i>Nature Communications</i> , 2021 , 12, 938	17.4	11
266	Fabrication of 1D Te/2D ReS Mixed-Dimensional van der Waals Heterojunction for High-Performance Phototransistor. <i>ACS Nano</i> , 2021 , 15, 3241-3250	16.7	30
265	Aharonov-Bohm effect in graphene-based Fabry-Pérot quantum Hall interferometers. <i>Nature Nanotechnology</i> , 2021 , 16, 563-569	28.7	10
264	Antiperovskite Gd SnC: Unusual Coexistence of Ferromagnetism and Heavy Fermions in Gd Lattice. <i>Advanced Materials</i> , 2021 , 33, e2102958	24	0
263	One-Step Synthesis of NbSe/Nb-Doped-WSe Metal/Doped-Semiconductor van der Waals Heterostructures for Doping Controlled Ohmic Contact. <i>ACS Nano</i> , 2021 ,	16.7	8
262	Simultaneous enhancement of specific capacitance and potential window of graphene-based electric double-layer capacitors using ferroelectric polymers. <i>Journal of Power Sources</i> , 2021 , 507, 230268	8.9	1
261	Enhancement in optically induced ultrafast THz response of MoSe/MoS heterobilayer. <i>Optics Express</i> , 2021 , 29, 4181-4190	3.3	5
260	Photoinduced Tuning of Schottky Barrier Height in Graphene/MoS Heterojunction for Ultrahigh Performance Short Channel Phototransistor. <i>ACS Nano</i> , 2020 , 14, 7574-7580	16.7	16

259	Gate modulation of the long-range magnetic order in a vanadium-doped WSe ₂ semiconductor. <i>AIP Advances</i> , 2020 , 10, 065220	1.5	5
258	Evidence of shallow band gap in ultrathin 1T' MoTe ₂ via infrared spectroscopy. <i>Physical Review B</i> , 2020 , 101,	3.3	2
257	Tailoring Domain Morphology in Monolayer NbSe and WNbSe Heterostructure. <i>ACS Nano</i> , 2020 , 14, 8784-8792	16.7	13
256	An active carbon-nanotube polarizer-embedded electrode and liquid-crystal alignment. <i>Nanoscale</i> , 2020 , 12, 17698-17702	7.7	4
255	Ferromagnetic Order at Room Temperature in Monolayer WSe Semiconductor via Vanadium Dopant. <i>Advanced Science</i> , 2020 , 7, 1903076	13.6	74
254	Ferromagnetic quasi-atomic electrons in two-dimensional electride. <i>Nature Communications</i> , 2020 , 11, 1526	17.4	25
253	Monodispersed SnS nanoparticles anchored on carbon nanotubes for high-retention sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7861-7869	13	40
252	Identifying Fibrillization State of A β Protein Near-Field THz Conductance Measurement. <i>ACS Nano</i> , 2020 , 14, 6548-6558	16.7	13
251	Carrier Multiplication in PbS Quantum Dots Anchored on a Au Tip using Conductive Atomic Force Microscopy. <i>Advanced Materials</i> , 2020 , 32, e1908461	24	3
250	Unveiling the Hot Carrier Distribution in Vertical Graphene/h-BN/Au van der Waals Heterostructures for High-Performance Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10772-10780	9.5	24
249	Temperature dependence of velocity saturation in a multilayer molybdenum disulfide transistor. <i>Semiconductor Science and Technology</i> , 2020 , 35, 035030	1.8	1
248	Transfer assembly for two-dimensional van der Waals heterostructures. <i>2D Materials</i> , 2020 , 7, 022005	5.9	54
247	Wafer-scale high-quality Ag thin film using a ZnO buffer layer for plasmonic applications. <i>Applied Surface Science</i> , 2020 , 512, 145705	6.7	2
246	How Clean Is Clean? Recipes for van der Waals Heterostructure Cleanliness Assessment. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7701-7709	9.5	8
245	Multi-layered carbon nanotube UV polariser for photo-alignment of liquid crystals. <i>Liquid Crystals</i> , 2020 , 47, 1604-1611	2.3	4
244	PbS Quantum Dots: Carrier Multiplication in PbS Quantum Dots Anchored on a Au Tip using Conductive Atomic Force Microscopy (Adv. Mater. 17/2020). <i>Advanced Materials</i> , 2020 , 32, 2070130	24	
243	Quantitative insights into the growth mechanisms of nanopores in hexagonal boron nitride. <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
242	Disentangling oxygen and water vapor effects on optoelectronic properties of monolayer tungsten disulfide. <i>Nanoscale</i> , 2020 , 12, 8344-8354	7.7	4

241	Ultrashort Vertical-Channel van der Waals Semiconductor Transistors. <i>Advanced Science</i> , 2020 , 7, 1902964	6.6	10
240	Measuring Photoexcited Free Charge Carriers in Mono- to Few-Layer Transition-Metal Dichalcogenides with Steady-State Microwave Conductivity. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 99-107	6.4	6
239	Time Evolution Studies on Strain and Doping of Graphene Grown on a Copper Substrate Using Raman Spectroscopy. <i>ACS Nano</i> , 2020 , 14, 919-926	16.7	26
238	Tailoring Quantum Tunneling in a Vanadium-Doped WSe/SnSe Heterostructure. <i>Advanced Science</i> , 2020 , 7, 1902751	13.6	35
237	Growth Mechanism of Alternating Defect Domains in Hexagonal WS via Inhomogeneous W-Precursor Accumulation. <i>Small</i> , 2020 , 16, e2003326	11	6
236	Schottky-barrier quantum well in two-dimensional semiconductor nanotransistors. <i>Materials Today Physics</i> , 2020 , 15, 100275	8	2
235	Modulation Doping via a Two-Dimensional Atomic Crystalline Acceptor. <i>Nano Letters</i> , 2020 , 20, 8446-8452	12.5	16
234	Tuning the inhomogeneous charge transport in ZnO interfaces for ultrahigh on/off ratio top-gated field-effect-transistor arrays. <i>Nano Research</i> , 2020 , 13, 3033-3040	10	1
233	Layer-controlled single-crystalline graphene film with stacking order via Cu-Si alloy formation. <i>Nature Nanotechnology</i> , 2020 , 15, 861-867	28.7	36
232	A Non-Volatile Memory Based on NbO _x /NbSe ₂ Van der Waals Heterostructures. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7598	2.6	3
231	Coulomb drag transistor using a graphene and MoS ₂ heterostructure. <i>Communications Physics</i> , 2020 , 3,	5.4	5
230	High-mobility junction field-effect transistor via graphene/MoS heterointerface. <i>Scientific Reports</i> , 2020 , 10, 13101	4.9	11
229	Bandgap Renormalization in Monolayer MoS ₂ on CsPbBr ₃ Quantum Dots via Charge Transfer at Room Temperature. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000835	4.6	4
228	Dielectric Nanowire Hybrids for Plasmon-Enhanced Light-Matter Interaction in 2D Semiconductors. <i>ACS Nano</i> , 2020 , 14, 11985-11994	16.7	10
227	Bandgap engineering of two-dimensional semiconductor materials. <i>Npj 2D Materials and Applications</i> , 2020 , 4,	8.8	152
226	Li Intercalation Effects on Interface Resistances of High-Speed and Low-Power WSe ₂ Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2020 , 30, 2003688	15.6	4
225	Decelerated Hot Carrier Cooling in Graphene Nondissipative Carrier Injection from MoS. <i>ACS Nano</i> , 2020 , 14, 13905-13912	16.7	12
224	Anomalous Conductance near Percolative Metal-Insulator Transition in Monolayer MoS at Low Voltage Regime. <i>ACS Nano</i> , 2019 , 13, 6631-6637	16.7	6

223	Ultra-high Gauge Factor in Graphene/MoS Heterojunction Field Effect Transistor with Variable Schottky Barrier. <i>ACS Nano</i> , 2019 , 13, 8392-8400	16.7	28
222	Gate tunable optical absorption and band structure of twisted bilayer graphene. <i>Physical Review B</i> , 2019 , 99,	3.3	17
221	Efficient Gate Modulation in a Screening-Engineered MoS/Single-Walled Carbon Nanotube Network Heterojunction Vertical Field-Effect Transistor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25516-25523	9.5	12
220	Single-Crystalline Monolayer Graphene Wafer on Dielectric Substrate of SiON without Metal Catalysts. <i>ACS Nano</i> , 2019 , 13, 6662-6669	16.7	11
219	Semimetallic Graphene for Infrared Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19565-19574	5.7	6
218	Inverse Stranski-Krastanov Growth in Single-Crystalline Sputtered Cu Thin Films for Wafer-Scale Device Applications. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3300-3306	5.6	1
217	Room-Temperature Mesoscopic Fluctuations and Coulomb Drag in Multilayer WSe. <i>Advanced Materials</i> , 2019 , 31, e1900154	24	7
216	Hybrid catalyst with monoclinic MoTe ₂ and platinum for efficient hydrogen evolution. <i>APL Materials</i> , 2019 , 7, 071118	5.7	15
215	Revealing antiferromagnetic transition of van der Waals MnPS ₃ via vertical tunneling electrical resistance measurement. <i>APL Materials</i> , 2019 , 7, 081102	5.7	9
214	Fast-Charging High-Energy Battery-Supercapacitor Hybrid: Anodic Reduced Graphene Oxide-Vanadium(IV) Oxide Sheet-on-Sheet Heterostructure. <i>ACS Nano</i> , 2019 , 13, 10776-10786	16.7	63
213	Anisotropic mechanical properties and strengthening mechanism in superaligned carbon nanotubes-reinforced aluminum. <i>Carbon</i> , 2019 , 153, 513-524	10.4	10
212	Tunable Negative Differential Resistance in van der Waals Heterostructures at Room Temperature by Tailoring the Interface. <i>ACS Nano</i> , 2019 , 13, 8193-8201	16.7	43
211	Optical logic operation via plasmon-exciton interconversion in 2D semiconductors. <i>Scientific Reports</i> , 2019 , 9, 9164	4.9	5
210	Edge Contact for Carrier Injection and Transport in MoS Field-Effect Transistors. <i>ACS Nano</i> , 2019 , 13, 13169-13175	16.7	28
209	Carrier multiplication in van der Waals layered transition metal dichalcogenides. <i>Nature Communications</i> , 2019 , 10, 5488	17.4	18
208	Long-range ferromagnetic ordering in vanadium-doped WSe ₂ semiconductor. <i>Applied Physics Letters</i> , 2019 , 115, 242406	3.4	18
207	Two-Terminal Multibit Optical Memory via van der Waals Heterostructure. <i>Advanced Materials</i> , 2019 , 31, e1807075	24	111
206	Minimizing Trap Charge Density towards an Ideal Diode in Graphene-Silicon Schottky Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 880-888	9.5	10

205	Wafer-Scale van der Waals Heterostructures with Ultraclean Interfaces via the Aid of Viscoelastic Polymer. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1579-1586	9.5	9
204	Coherent Thermoelectric Power from Graphene Quantum Dots. <i>Nano Letters</i> , 2019 , 19, 61-68	11.5	14
203	Role of Hole Trap Sites in MoS for Inconsistency in Optical and Electrical Phenomena. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10580-10586	9.5	24
202	Electrically Tunable Slow Light Using Graphene Metamaterials. <i>ACS Photonics</i> , 2018 , 5, 1800-1807	6.3	128
201	Intragranular Dispersion of Carbon Nanotubes Comprehensively Improves Aluminum Alloys. <i>Advanced Science</i> , 2018 , 5, 1800115	13.6	12
200	Large local lattice expansion in graphene adlayers grown on copper. <i>Nature Materials</i> , 2018 , 17, 450-455	27	12
199	Unsaturated Drift Velocity of Monolayer Graphene. <i>Nano Letters</i> , 2018 , 18, 1575-1581	11.5	9
198	Mobility Engineering in Vertical Field Effect Transistors Based on Van der Waals Heterostructures. <i>Advanced Materials</i> , 2018 , 30, 1704435	24	33
197	Ultrafast Spectral Photoresponse of Bilayer Graphene: Optical Pump-Terahertz Probe Spectroscopy. <i>ACS Nano</i> , 2018 , 12, 1785-1792	16.7	17
196	High energy density and enhanced stability of asymmetric supercapacitors with mesoporous MnO ₂ @CNT and nanodot MoO ₃ @CNT free-standing films. <i>Energy Storage Materials</i> , 2018 , 12, 223-231	19.4	102
195	Synthesis of high quality graphene on capped (1 1 1) Cu thin films obtained by high temperature secondary grain growth on c-plane sapphire substrates. <i>2D Materials</i> , 2018 , 5, 035008	5.9	9
194	Near-zero hysteresis and near-ideal subthreshold swing in h-BN encapsulated single-layer MoS ₂ field-effect transistors. <i>2D Materials</i> , 2018 , 5, 031001	5.9	68
193	CMOS-compatible batch processing of monolayer MoS ₂ MOSFETs. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 15LT02	3	7
192	Redox-Driven Route for Widening Voltage Window in Asymmetric Supercapacitor. <i>ACS Nano</i> , 2018 , 12, 8494-8505	16.7	117
191	Synthesis of hexagonal boron nitride heterostructures for 2D van der Waals electronics. <i>Chemical Society Reviews</i> , 2018 , 47, 6342-6369	58.5	80
190	Plasma-Induced Phase Transformation of SnS to SnS ₂ . <i>Scientific Reports</i> , 2018 , 8, 10284	4.9	22
189	Very high open-circuit voltage in dual-gate graphene/silicon heterojunction solar cells. <i>Nano Energy</i> , 2018 , 53, 398-404	17.1	9
188	Unveiling Defect-Related Raman Mode of Monolayer WS ₂ via Tip-Enhanced Resonance Raman Scattering. <i>ACS Nano</i> , 2018 , 12, 9982-9990	16.7	44

187	Soft Coulomb gap and asymmetric scaling towards metal-insulator quantum criticality in multilayer MoS. <i>Nature Communications</i> , 2018 , 9, 2052	17.4	16
186	Wafer-scale single-crystal hexagonal boron nitride film via self-collimated grain formation. <i>Science</i> , 2018 , 362, 817-821	33.3	233
185	Anomalous K-Point Phonons in Noble Metal/Graphene Heterostructure Activated by Localized Surface Plasmon Resonance. <i>ACS Nano</i> , 2018 , 12, 12733-12740	16.7	7
184	Enhanced Light-Matter Interactions in Self-Assembled Plasmonic Nanoparticles on 2D Semiconductors. <i>Small</i> , 2018 , 14, e1802949	11	10
183	Investigation of Zirconium Effect on the Corrosion Resistance of Aluminum Alloy Using Electrochemical Methods and Numerical Simulation in an Acidified Synthetic Sea Salt Solution. <i>Materials</i> , 2018 , 11,	3.5	5
182	Gas adsorbates are Coulomb scatterers, rather than neutral ones, in a monolayer MoS field effect transistor. <i>Nanoscale</i> , 2018 , 10, 10856-10862	7.7	6
181	Direct growth of doping controlled monolayer WSe by selenium-phosphorus substitution. <i>Nanoscale</i> , 2018 , 10, 11397-11402	7.7	20
180	Superconductivity in Te-deficient polymorphic MoTe 2 \times and its derivatives: rich structural and electronic phase transitions. <i>2D Materials</i> , 2018 , 5, 031014	5.9	5
179	van der Waals Metallic Transition Metal Dichalcogenides. <i>Chemical Reviews</i> , 2018 , 118, 6297-6336	68.1	143
178	Dynamical observations on the crack tip zone and stress corrosion of two-dimensional MoS. <i>Nature Communications</i> , 2017 , 8, 14116	17.4	46
177	Recent development of two-dimensional transition metal dichalcogenides and their applications. <i>Materials Today</i> , 2017 , 20, 116-130	21.8	1250
176	Thickness-dependent in-plane thermal conductivity of suspended MoS grown by chemical vapor deposition. <i>Nanoscale</i> , 2017 , 9, 2541-2547	7.7	61
175	Tip-Enhanced Raman Scattering Imaging of Two-Dimensional Tungsten Disulfide with Optimized Tip Fabrication Process. <i>Scientific Reports</i> , 2017 , 7, 40810	4.9	19
174	Understanding Coulomb Scattering Mechanism in Monolayer MoS Channel in the Presence of h-BN Buffer Layer. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5006-5013	9.5	31
173	Junction-Structure-Dependent Schottky Barrier Inhomogeneity and Device Ideality of Monolayer MoS Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11240-11246	9.5	38
172	Graphene: Probing Bilayer Grain Boundaries in Large-Area Graphene with Tip-Enhanced Raman Spectroscopy (Adv. Mater. 7/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
171	Heterogeneous Defect Domains in Single-Crystalline Hexagonal WS. <i>Advanced Materials</i> , 2017 , 29, 1605043	24	94
170	Integrated Freestanding Two-dimensional Transition Metal Dichalcogenides. <i>Advanced Materials</i> , 2017 , 29, 1700308	24	24

169	Active hydrogen evolution through lattice distortion in metallic MoTe 2. <i>2D Materials</i> , 2017 , 4, 025061	5.9	81
168	Selective control of electron and hole tunneling in 2D assembly. <i>Science Advances</i> , 2017 , 3, e1602726	14.3	21
167	Long-Range Lattice Engineering of MoTe by a 2D Electride. <i>Nano Letters</i> , 2017 , 17, 3363-3368	11.5	56
166	Te vacancy-driven superconductivity in orthorhombic molybdenum ditelluride. <i>2D Materials</i> , 2017 , 4, 021030	5.9	30
165	Carbon-Nanotube-Templated, Sputter-Deposited, Flexible Superconducting NbN Nanowire Yarns. <i>Advanced Functional Materials</i> , 2017 , 27, 1701108	15.6	11
164	Charge Transport in MoS/WSe van der Waals Heterostructure with Tunable Inversion Layer. <i>ACS Nano</i> , 2017 , 11, 3832-3840	16.7	130
163	Strong Localization of Anionic Electrons at Interlayer for Electrical and Magnetic Anisotropy in Two-Dimensional YC Electride. <i>Journal of the American Chemical Society</i> , 2017 , 139, 615-618	16.4	47
162	Photocurrent Switching of Monolayer MoS Using a Metal-Insulator Transition. <i>Nano Letters</i> , 2017 , 17, 673-678	11.5	25
161	Probing Bilayer Grain Boundaries in Large-Area Graphene with Tip-Enhanced Raman Spectroscopy. <i>Advanced Materials</i> , 2017 , 29, 1603601	24	25
160	Nanoreactor of Nickel-Containing Carbon-Shells as Oxygen Reduction Catalyst. <i>Advanced Materials</i> , 2017 , 29, 1605083	24	50
159	Graphene Substrate for van der Waals Epitaxy of Layer-Structured Bismuth Antimony Telluride Thermoelectric Film. <i>Advanced Materials</i> , 2017 , 29, 1604899	24	28
158	Tuning Carrier Tunneling in van der Waals Heterostructures for Ultrahigh Detectivity. <i>Nano Letters</i> , 2017 , 17, 453-459	11.5	134
157	A High-On/Off-Ratio Floating-Gate Memristor Array on a Flexible Substrate via CVD-Grown Large-Area 2D Layer Stacking. <i>Advanced Materials</i> , 2017 , 29, 1703363	24	68
156	Ultrastretchable Analog/Digital Signal Transmission Line with Carbon Nanotube Sheets. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26286-26292	9.5	9
155	Tunneling Photocurrent Assisted by Interlayer Excitons in Staggered van der Waals Hetero-Bilayers. <i>Advanced Materials</i> , 2017 , 29, 1701512	24	35
154	Structural and quantum-state phase transitions in van der Waals layered materials. <i>Nature Physics</i> , 2017 , 13, 931-937	16.2	187
153	Probing defect dynamics in monolayer MoS via noise nanospectroscopy. <i>Nature Communications</i> , 2017 , 8, 2121	17.4	39
152	van der Waals Layered Materials: Opportunities and Challenges. <i>ACS Nano</i> , 2017 , 11, 11803-11830	16.7	258

151	Impact of Carboxyl Groups in Graphene Oxide on Chemoselective Alcohol Oxidation with Ultra-Low Carbocatalyst Loading. <i>Scientific Reports</i> , 2017 , 7, 3146	4.9	16
150	Low-Temperature Ohmic Contact to Monolayer MoS by van der Waals Bonded Co/h-BN Electrodes. <i>Nano Letters</i> , 2017 , 17, 4781-4786	11.5	164
149	Role of alkali metal promoter in enhancing lateral growth of monolayer transition metal dichalcogenides. <i>Nanotechnology</i> , 2017 , 28, 36LT01	3.4	37
148	Chain Vacancies in 2D Crystals. <i>Small</i> , 2017 , 13, 1601930	11	15
147	Telluriding monolayer MoS and WS via alkali metal scooter. <i>Nature Communications</i> , 2017 , 8, 2163	17.4	59
146	Memristors: A High-On/Off-Ratio Floating-Gate Memristor Array on a Flexible Substrate via CVD-Grown Large-Area 2D Layer Stacking (Adv. Mater. 44/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
145	Connecting wire-based solar cells without any transparent conducting electrode. <i>CrystEngComm</i> , 2016 , 18, 207-212	3.3	1
144	Optical Gain in MoS ₂ via Coupling with Nanostructured Substrate: Fabry-Perot Interference and Plasmonic Excitation. <i>ACS Nano</i> , 2016 , 10, 8192-8	16.7	53
143	Reconfigurable exciton-plasmon interconversion for nanophotonic circuits. <i>Nature Communications</i> , 2016 , 7, 13663	17.4	34
142	Electron Excess Doping and Effective Schottky Barrier Reduction on the MoS/h-BN Heterostructure. <i>Nano Letters</i> , 2016 , 16, 6383-6389	11.5	60
141	Identifying multiexcitons in MoS ₂ monolayers at room temperature. <i>Physical Review B</i> , 2016 , 93,	3.3	61
140	Vertically Conductive MoS ₂ Spiral Pyramid. <i>Advanced Materials</i> , 2016 , 28, 7723-8	24	54
139	Wafer-Scale Single-Crystalline AB-Stacked Bilayer Graphene. <i>Advanced Materials</i> , 2016 , 28, 8177-8183	24	67
138	Determining the Fermi level by absorption quenching of monolayer graphene by charge transfer doping. <i>Nanoscale</i> , 2016 , 8, 18710-18717	7.7	11
137	Hyperdislocations in van der Waals Layered Materials. <i>Nano Letters</i> , 2016 , 16, 7807-7813	11.5	7
136	Unusually efficient photocurrent extraction in monolayer van der Waals heterostructure by tunnelling through discretized barriers. <i>Nature Communications</i> , 2016 , 7, 13278	17.4	96
135	Two-terminal floating-gate memory with van der Waals heterostructures for ultrahigh on/off ratio. <i>Nature Communications</i> , 2016 , 7, 12725	17.4	190
134	Sorting centimetre-long single-walled carbon nanotubes. <i>Scientific Reports</i> , 2016 , 6, 30836	4.9	3

133	In situ chemical vapor deposition of graphene and hexagonal boron nitride heterostructures. <i>Current Applied Physics</i> , 2016 , 16, 1175-1191	2.6	28
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