

Lain-Jong Li

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.

427
papers

50,296
citations

105
h-index

218
g-index

458
ext. papers

56,887
ext. citations

11.6
avg, IF

7.74
L-index

#	Paper	IF	Citations
427	Two-Dimensional CsAgBiBr/WS Heterostructure-Based Photodetector with Boosted Detectivity via Interfacial Engineering.. <i>ACS Nano</i> , 2022 ,	16.4	1
426	Unusual Activity of Rationally Designed Cobalt Phosphide/Oxide Heterostructure Composite for Hydrogen Production in Alkaline Medium.. <i>ACS Nano</i> , 2022 ,	16.4	1
425	Wafer-scale single-orientation 2D layers by atomic edge-guided epitaxial growth.. <i>Chemical Society Reviews</i> , 2022 ,	57.5	2
424	High- κ Perovskite membranes as insulators for two-dimensional transistors.. <i>Nature</i> , 2022 , 605, 262-267	47.5	0
423	One-step synthesis of single-site vanadium substitution in 1T-WS monolayers for enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , 2021 , 12, 709	16.9	34
422	Ultralow contact resistance between semimetal and monolayer semiconductors. <i>Nature</i> , 2021 , 593, 211-217	47.5	98
421	Atomic Layer Nucleation Engineering: Inhibitor-Free Area-Selective Atomic Layer Deposition of Oxide and Nitride. <i>Chemistry of Materials</i> , 2021 , 33, 5584-5590	9.5	1
420	Van der Waals Heterostructures: Temperature-Dependent Electronic Ground-State Charge Transfer in van der Waals Heterostructures (Adv. Mater. 29/2021). <i>Advanced Materials</i> , 2021 , 33, 2170229	23.6	
419	The Schottky-Mott Rule Expanded for Two-Dimensional Semiconductors: Influence of Substrate Dielectric Screening. <i>ACS Nano</i> , 2021 , 15, 14794-14803	16.4	2
418	Bottom-Up Synthesized All-Thermal-Catalyst Aerogels for Heat-Regenerative Air Filtration. <i>Nano Letters</i> , 2021 , 21, 8160-8165	11.3	0
417	Capturing 3D atomic defects and phonon localization at the 2D heterostructure interface. <i>Science Advances</i> , 2021 , 7, eabi6699	13.9	0
416	High On-State Current in Chemical Vapor Deposited Monolayer MoS ₂ nFETs With Sn Ohmic Contacts. <i>IEEE Electron Device Letters</i> , 2021 , 42, 272-275	4.1	4
415	Strain-Directed Layer-By-Layer Epitaxy Toward van der Waals Homo- and Heterostructures 2021 , 3, 442-453		3
414	BiOSe-Based Memristor-Aided Logic. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15391-15398	9.4	3
413	Atomic-Layer Controlled Interfacial Band Engineering at Two-Dimensional Layered PtSe/Si Heterojunctions for Efficient Photoelectrochemical Hydrogen Production. <i>ACS Nano</i> , 2021 , 15, 4627-4635	16.4	9
412	Lithium-Ion Desolvation Induced by Nitrate Additives Reveals New Insights into High Performance Lithium Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101593	15.4	17
411	Giant Ferroelectric Resistance Switching Controlled by a Modulatory Terminal for Low-Power Neuromorphic In-Memory Computing. <i>Advanced Materials</i> , 2021 , 33, e2008709	23.6	11

410	Optically Controlled Ferroelectric Nanodomains for Logic-in-Memory Photonic Devices With Simplified Structures. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 1992-1995	2.7	3
409	Type-I Energy Level Alignment at the PTCDA-Monolayer MoS Interface Promotes Resonance Energy Transfer and Luminescence Enhancement. <i>Advanced Science</i> , 2021 , 8, 2100215	13.2	0
408	Ferroelectric Switching: Giant Ferroelectric Resistance Switching Controlled by a Modulatory Terminal for Low-Power Neuromorphic In-Memory Computing (Adv. Mater. 21/2021). <i>Advanced Materials</i> , 2021 , 33, 2170167	23.6	1
407	Temperature-Dependent Electronic Ground-State Charge Transfer in van der Waals Heterostructures. <i>Advanced Materials</i> , 2021 , 33, e2008677	23.6	2
406	Unraveling the origin of ferroelectric resistance switching through the interfacial engineering of layered ferroelectric-metal junctions.. <i>Nature Communications</i> , 2021 , 12, 7291	16.9	0
405	Transistors based on two-dimensional materials for future integrated circuits. <i>Nature Electronics</i> , 2021 , 4, 786-799	27.6	13
404	Two-Dimensional Materials-Based Static Random-Access Memory.. <i>Advanced Materials</i> , 2021 , e2107894	23.6	0
403	Van der Waals heterostructures with one-dimensional atomic crystals. <i>Progress in Materials Science</i> , 2021 , 122, 100856	41.5	6
402	Layered Semiconducting 2D Materials for Future Transistor Applications. <i>Small Structures</i> , 2021 , 2, 2000103	10.3	34
401	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2021 , 2108017-0	2.1	36
400	Strain engineering and epitaxial stabilization of halide perovskites. <i>Nature</i> , 2020 , 577, 209-215	47.5	190
399	. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1649-1652	4.1	2
398	Yield, variability, reliability, and stability of two-dimensional materials based solid-state electronic devices. <i>Nature Communications</i> , 2020 , 11, 5689	16.9	13
397	Uncovering Atomic and Nano-scale Deformations in Two-dimensional Lateral Heterojunctions. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1630-1631	0.5	
396	Optoelectronic Ferroelectric Domain-Wall Memories Made from a Single Van Der Waals Ferroelectric. <i>Advanced Functional Materials</i> , 2020 , 30, 2004206	15.4	20
395	Additive manufacturing assisted van der Waals integration of 3D/3D hierarchically functional nanostructures. <i>Communications Materials</i> , 2020 , 1,	5.9	3
394	X-ray Studies of High-Performance Lithium-Ion Storage in Keplerate-Type Polyoxometalate Anodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40296-40309	9.4	4
393	Epitaxial Growth and Determination of Band Alignment of Bi ₂ Te ₃ /WSe ₂ Vertical van der Waals Heterojunctions 2020 , 2, 1351-1359		5

392	Temperature-dependent optical constants of monolayer [Formula: see text], [Formula: see text], [Formula: see text], and [Formula: see text]: spectroscopic ellipsometry and first-principles calculations. <i>Scientific Reports</i> , 2020 , 10, 15282	4.7	12
391	Ledge-directed epitaxy of continuously self-aligned single-crystalline nanoribbons of transition metal dichalcogenides. <i>Nature Materials</i> , 2020 , 19, 1300-1306	26.5	37
390	Energy-Efficient Monolithic 3-D SRAM Cell With BEOL MoS ₂ FETs for SoC Scaling. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 4216-4221	2.7	4
389	Aberration-corrected STEM imaging of 2D materials: Artifacts and practical applications of threefold astigmatism. <i>Science Advances</i> , 2020 , 6,	13.9	6
388	Mobility-Fluctuation-Controlled Linear Positive Magnetoresistance in 2D Semiconductor BiOSe Nanoplates. <i>ACS Nano</i> , 2020 , 14, 11319-11326	16.4	8
387	Bidirectional All-Optical Synapses Based on a 2D Bi ₂ O ₂ Se/Graphene Hybrid Structure for Multifunctional Optoelectronics. <i>Advanced Functional Materials</i> , 2020 , 30, 2001598	15.4	37
386	Mixed-state electron ptychography enables sub-angstrom resolution imaging with picometer precision at low dose. <i>Nature Communications</i> , 2020 , 11, 2994	16.9	21
385	Two-dimensional materials as anodes for sodium-ion batteries. <i>Materials Today Advances</i> , 2020 , 6, 1000542	4.2	23
384	Nonvolatile molecular memory with the multilevel states based on MoS nanochannel field effect transistor through tuning gate voltage to control molecular configurations. <i>Nanotechnology</i> , 2020 , 31, 275204	3.3	2
383	Layer-Dependent and In-Plane Anisotropic Properties of Low-Temperature Synthesized Few-Layer PdSe Single Crystals. <i>ACS Nano</i> , 2020 , 14, 4963-4972	16.4	24
382	Wafer-scale single-crystal hexagonal boron nitride monolayers on Cu(111). <i>Nature</i> , 2020 , 579, 219-223	47.5	178
381	Self-Exfoliated Synthesis of Transition Metal Phosphate Nanolayers for Selective Aerobic Oxidation of Ethyl Lactate to Ethyl Pyruvate. <i>ACS Catalysis</i> , 2020 , 10, 3958-3967	12.9	4
380	Solution-Processed Mixed-Dimensional Hybrid Perovskite/Carbon Nanotube Electronics. <i>ACS Nano</i> , 2020 , 14, 3969-3979	16.4	19
379	Steam-Assisted Chemical Vapor Deposition of Zeolitic Imidazolate Framework 2020 , 2, 485-491		11
378	Impact of Schottky Barrier on the Performance of Two-Dimensional Material Transistors 2020 ,		1
377	New Insight on the Role of Electrolyte Additives in Rechargeable Lithium Ion Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 2613-2622	19.7	77
376	Demonstration of 40-nm Channel Length Top-Gate p-MOSFET of WS ₂ Channel Directly Grown on SiO _x /Si Substrates Using Area-Selective CVD Technology. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 5381-5386	2.7	2
375	2D Materials Characterization: Should We Rely on HR STEM Imaging?. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1638-1639	0.5	

374	How 2D semiconductors could extend Moore's law. <i>Nature</i> , 2019 , 567, 169-170	47.5	102
373	Demonstration of the key substrate-dependent charge transfer mechanisms between monolayer MoS ₂ and molecular dopants. <i>Communications Physics</i> , 2019 , 2,	5.3	18
372	Graphene and two-dimensional materials for silicon technology. <i>Nature</i> , 2019 , 573, 507-518	47.5	377
371	Electrochemical Conversion of CO ₂ to 2-Bromoethanol in a Membraneless Cell. <i>ACS Energy Letters</i> , 2019 , 4, 600-605	19.7	6
370	Engineering Point-Defect States in Monolayer WSe. <i>ACS Nano</i> , 2019 , 13, 1595-1602	16.4	28
369	Scalable fabrication of a complementary logic inverter based on MoS ₂ fin-shaped field effect transistors. <i>Nanoscale Horizons</i> , 2019 , 4, 683-688	10.6	21
368	Electronic band dispersion determination in azimuthally disordered transition-metal dichalcogenide monolayers. <i>Communications Physics</i> , 2019 , 2,	5.3	9
367	Toward the Growth of High Mobility 2D Transition Metal Dichalcogenide Semiconductors. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900220	4.5	22
366	Gate-Tunable and Multidirection-Switchable Memristive Phenomena in a Van Der Waals Ferroelectric. <i>Advanced Materials</i> , 2019 , 31, e1901300	23.6	55
365	Plasmonic-Enhanced Light Harvesting and Perovskite Solar Cell Performance Using Au Biometric Dimers with Broadband Structural Darkness. <i>Solar Rrl</i> , 2019 , 3, 1900138	7	19
364	Design and Mechanistic Study of Highly Durable Carbon-Coated Cobalt Diphosphide Core-Shell Nanostructure Electrocatalysts for the Efficient and Stable Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20752-20761	9.4	14
363	Point Defects and Localized Excitons in 2D WSe. <i>ACS Nano</i> , 2019 , 13, 6050-6059	16.4	72
362	Continuous desalination with a metal-free redox-mediator. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13941-13947	12.8	22
361	MXene based self-assembled cathode and antifouling separator for high-rate and dendrite-inhibited LiB battery. <i>Nano Energy</i> , 2019 , 61, 478-485	16.9	82
360	2D Materials: Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter (Adv. Mater. 18/2019). <i>Advanced Materials</i> , 2019 , 31, 1970132	23.6	0
359	One-Step Vapor-Phase Synthesis and Quantum-Confined Exciton in Single-Crystal Platelets of Hybrid Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2363-2371	6.3	17
358	Colorless-to-colorful switching electrochromic polyimides with very high contrast ratio. <i>Nature Communications</i> , 2019 , 10, 1239	16.9	59
357	Negative capacitance from the inductance of ferroelectric switching. <i>Communications Physics</i> , 2019 , 2,	5.3	5

356	Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter. <i>Advanced Materials</i> , 2019 , 31, e1900861	23.6	26
355	Cross-plane thermoelectric figure of merit in graphene - C60 heterostructures at room temperature. <i>FlatChem</i> , 2019 , 14, 100089	4.9	4
354	Synergistic additive-mediated CVD growth and chemical modification of 2D materials. <i>Chemical Society Reviews</i> , 2019 , 48, 4639-4654	57.5	64
353	First demonstration of 40-nm channel length top-gate WS ₂ pFET using channel area-selective CVD growth directly on SiO _x /Si substrate 2019 ,		10
352	An Aqueous Rechargeable Fluoride Ion Battery with Dual Fluoride Electrodes. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2419-A2424	3.8	11
351	Layer Rotation-Angle-Dependent Excitonic Absorption in van der Waals Heterostructures Revealed by Electron Energy Loss Spectroscopy. <i>ACS Nano</i> , 2019 , 13, 9541-9550	16.4	15
350	Growth of 2H stacked WSe ₂ bilayers on sapphire. <i>Nanoscale Horizons</i> , 2019 , 4, 1434-1442	10.6	11
349	Quasi-Two-Dimensional Se-Terminated Bismuth Oxychalcogenide (BiOSe). <i>ACS Nano</i> , 2019 , 13, 13439-13444	14.4	24
348	Dielectric impact on exciton binding energy and quasiparticle bandgap in monolayer WS ₂ and WSe ₂ . <i>2D Materials</i> , 2019 , 6, 025028	5.7	23
347	2019 ,		4
346	Tailoring excitonic states of van der Waals bilayers through stacking configuration, band alignment, and valley spin. <i>Science Advances</i> , 2019 , 5, eaax7407	13.9	28
345	Effective N-methyl-2-pyrrolidone wet cleaning for fabricating high-performance monolayer MoS ₂ transistors. <i>Nano Research</i> , 2019 , 12, 303-308	9.9	6
344	Nanoscale Surface Photovoltage Mapping of 2D Materials and Heterostructures by Illuminated Kelvin Probe Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13564-13571	3.7	20
343	Chemical hole doping into large-area transition metal dichalcogenide monolayers using boron-based oxidant. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 02CB15	1.3	6
342	Self-Aligned and Scalable Growth of Monolayer WSe ₂ /MoS ₂ Lateral Heterojunctions. <i>Advanced Functional Materials</i> , 2018 , 28, 1706860	15.4	35
341	Liquid-solid surface phase transformation of fluorinated fullerene on monolayer tungsten diselenide. <i>Physical Review B</i> , 2018 , 97,	3.3	6
340	Multidirection Piezoelectricity in Mono- and Multilayered Hexagonal HnSe. <i>ACS Nano</i> , 2018 , 12, 4976-4983	16.4	125
339	Circular Dichroism Control of Tungsten Diselenide (WSe ₂) Atomic Layers with Plasmonic Metamolecules. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15996-16004	9.4	13

338	Negative circular polarization emissions from WSe/MoSe commensurate heterobilayers. <i>Nature Communications</i> , 2018 , 9, 1356	16.9	59
337	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor InSe. <i>Nano Letters</i> , 2018 , 18, 1253-1258	11.3	263
336	Observation of chiral phonons. <i>Science</i> , 2018 , 359, 579-582	32.2	106
335	MoS-coated NbS nanoflakes grown on glass carbon: an advanced electrocatalyst for the hydrogen evolution reaction. <i>Nanoscale</i> , 2018 , 10, 3444-3450	7.5	17
334	Strain distributions and their influence on electronic structures of WSe-MoS laterally strained heterojunctions. <i>Nature Nanotechnology</i> , 2018 , 13, 152-158	28	129
333	Direct determination of monolayer MoS ₂ and WSe ₂ exciton binding energies on insulating and metallic substrates. <i>2D Materials</i> , 2018 , 5, 025003	5.7	92
332	Transmissive-to-black fast electrochromic switching from a long conjugated pendant group and a highly dispersed polymer/SWNT. <i>Polymer Chemistry</i> , 2018 , 9, 619-626	4.8	23
331	New Insights on Graphite Anode Stability in Rechargeable Batteries: Li Ion Coordination Structures Prevail over Solid Electrolyte Interphases. <i>ACS Energy Letters</i> , 2018 , 3, 335-340	19.7	115
330	Functional Two-Dimensional Coordination Polymeric Layer as a Charge Barrier in Li-S Batteries. <i>ACS Nano</i> , 2018 , 12, 836-843	16.4	62
329	Selectively Plasmon-Enhanced Second-Harmonic Generation from Monolayer Tungsten Diselenide on Flexible Substrates. <i>ACS Nano</i> , 2018 , 12, 1859-1867	16.4	52
328	Observation of Wigner crystal phase and ripplon-limited mobility behavior in monolayer CVD MoS with grain boundary. <i>Nanotechnology</i> , 2018 , 29, 225707	3.3	
327	Epitaxial Growth of Two-Dimensional Layered Transition-Metal Dichalcogenides: Growth Mechanism, Controllability, and Scalability. <i>Chemical Reviews</i> , 2018 , 118, 6134-6150	66.4	196
326	Hall effect biosensors with ultraclean graphene film for improved sensitivity of label-free DNA detection. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 85-91	11.6	44
325	Phase Inversion Strategy to Flexible Freestanding Electrode: Critical Coupling of Binders and Electrolytes for High Performance LiS Battery. <i>Advanced Functional Materials</i> , 2018 , 28, 1802244	15.4	47
324	Unraveling Spatially Heterogeneous Ultrafast Carrier Dynamics of Single-Layer WSe by Femtosecond Time-Resolved Photoemission Electron Microscopy. <i>Nano Letters</i> , 2018 , 18, 5172-5178	11.3	21
323	Two-dimensional materials with piezoelectric and ferroelectric functionalities. <i>Npj 2D Materials and Applications</i> , 2018 , 2,	8.5	132
322	Deep-ultraviolet Raman scattering spectroscopy of monolayer WS. <i>Scientific Reports</i> , 2018 , 8, 11398	4.7	9
321	Thermoelectrics: A Nanostructuring Method to Decouple Electrical and Thermal Transport through the Formation of Electrically Triggered Conductive Nanofilaments (Adv. Mater. 28/2018). <i>Advanced Materials</i> , 2018 , 30, 1870243	23.6	

320	Facile Doping in Two-Dimensional Transition-Metal Dichalcogenides by UV Light. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29893-29901	9.4	15
319	Sub-nanometre channels embedded in two-dimensional materials. <i>Nature Materials</i> , 2018 , 17, 129-133	26.5	71
318	Synthesis and optoelectronic applications of graphene/transition metal dichalcogenides flat-pack assembly. <i>Carbon</i> , 2018 , 127, 602-610	10.1	12
317	Mapping Strain and Relaxation in 2D Heterojunctions with Sub-picometer Precision. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1588-1589	0.5	
316	Recognizing the Mechanism of Sulfurized Polyacrylonitrile Cathode Materials for Li ⁺ Batteries and beyond in Al ⁺ Batteries. <i>ACS Energy Letters</i> , 2018 , 3, 2899-2907	19.7	139
315	Energy-Resolved Photoconductivity Mapping in a Monolayer-Bilayer WSe Lateral Heterostructure. <i>Nano Letters</i> , 2018 , 18, 7200-7206	11.3	18
314	Metal contact and carrier transport in single crystalline CH ₃ NH ₃ PbBr ₃ perovskite. <i>Nano Energy</i> , 2018 , 53, 817-827	16.9	19
313	Room-Temperature Ferroelectricity in Hexagonally Layered Mn ₂ Se ₃ Nanoflakes down to the Monolayer Limit. <i>Advanced Functional Materials</i> , 2018 , 28, 1803738	15.4	107
312	Recent Advances in van der Waals Heterojunctions Based on Semiconducting Transition Metal Dichalcogenides. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800270	6	16
311	Efficient electrochemical transformation of CO to C/C chemicals on benzimidazole-functionalized copper surfaces. <i>Chemical Communications</i> , 2018 , 54, 11324-11327	5.7	25
310	Enhanced Emission from WSe ₂ Monolayers Coupled to Circular Bragg Gratings. <i>ACS Photonics</i> , 2018 , 5, 3950-3955	6.1	16
309	A Nanostructuring Method to Decouple Electrical and Thermal Transport through the Formation of Electrically Triggered Conductive Nanofilaments. <i>Advanced Materials</i> , 2018 , 30, e1705385	23.6	12
308	Symmetric synergy of hybrid CoS ₂ /WS ₂ electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15552-15558	12.8	63
307	Type-I band alignment at MoS ₂ /In _{0.15} Al _{0.85} N lattice matched heterojunction and realization of MoS ₂ quantum well. <i>Applied Physics Letters</i> , 2017 , 111, 092104	3.3	22
306	Metal-Organic Framework-Based Separators for Enhancing Li ⁺ Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. <i>ACS Energy Letters</i> , 2017 , 2, 2362-2367	19.7	153
305	Disorder-dependent valley properties in monolayer WSe ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	14
304	Defect Structure of Localized Excitons in a WSe ₂ Monolayer. <i>Physical Review Letters</i> , 2017 , 119, 046101	13	113
303	Electronic Properties of a 1D Intrinsic/p-Doped Heterojunction in a 2D Transition Metal Dichalcogenide Semiconductor. <i>ACS Nano</i> , 2017 , 11, 9128-9135	16.4	46

302	Moiré-related in-gap states in a twisted MoS ₂ /graphite heterojunction. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.5	8
301	Oxygen Passivation Mediated Tunability of Trion and Excitons in MoS ₂ . <i>Physical Review Letters</i> , 2017 , 119, 077402	7.3	40
300	Substrate Lattice-Guided Seed Formation Controls the Orientation of 2D Transition-Metal Dichalcogenides. <i>ACS Nano</i> , 2017 , 11, 9215-9222	16.4	62
299	Multilayer Graphene-WSe Heterostructures for WSe Transistors. <i>ACS Nano</i> , 2017 , 11, 12817-12823	16.4	63
298	Bioinspired Dimensional Transition: Structurally Deformed MoS ₂ for Electrochemically Stable, Thermally Resistant, and Highly Efficient Hydrogen Evolution Reaction (Adv. Mater. 44/2017). <i>Advanced Materials</i> , 2017 , 29,	23.6	1
297	Single Atomically Sharp Lateral Monolayer p-n Heterojunction Solar Cells with Extraordinarily High Power Conversion Efficiency. <i>Advanced Materials</i> , 2017 , 29, 1701168	23.6	78
296	High-efficiency omnidirectional photoresponses based on monolayer lateral p-n heterojunctions. <i>Nanoscale Horizons</i> , 2017 , 2, 37-42	10.6	17
295	Integration of ammonia-plasma-functionalized graphene nanodiscs as charge trapping centers for nonvolatile memory applications. <i>Carbon</i> , 2017 , 113, 318-324	10.1	16
294	Band Alignment of 2D Transition Metal Dichalcogenide Heterojunctions. <i>Advanced Functional Materials</i> , 2017 , 27, 1603756	15.4	52
293	Anomalous photoluminescence thermal quenching of sandwiched single layer MoS ₂ . <i>Optical Materials Express</i> , 2017 , 7, 3697	2.6	8
292	Dynamical observations on the crack tip zone and stress corrosion of two-dimensional MoS. <i>Nature Communications</i> , 2017 , 8, 14116	16.9	42
291	Symmetrical synergy of hybrid Co ₉ S ₈ -MoS _x electrocatalysts for hydrogen evolution reaction. <i>Nano Energy</i> , 2017 , 32, 470-478	16.9	79
290	Impact of N-plasma and Ga-irradiation on MoS ₂ layer in molecular beam epitaxy. <i>Applied Physics Letters</i> , 2017 , 110, 012101	3.3	32
289	Interlayer couplings, Moiré patterns, and 2D electronic superlattices in MoS/WSe hetero-bilayers. <i>Science Advances</i> , 2017 , 3, e1601459	13.9	257
288	Scalable Approach To Construct Free-Standing and Flexible Carbon Networks for Lithium-Sulfur Battery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8047-8054	9.4	65
287	Band Alignment at GaN/Single-Layer WSe Interface. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9110-9117	9.4	1747
286	Facile synthesis of carbon/MoO ₃ nanocomposites as stable battery anodes. <i>Journal of Power Sources</i> , 2017 , 348, 270-280	8.8	41
285	Ultrathin 1T-phase MoS ₂ nanosheets decorated hollow carbon microspheres as highly efficient catalysts for solar energy harvesting and storage. <i>Journal of Power Sources</i> , 2017 , 345, 156-164	8.8	48

284	A Versatile and Simple Approach to Generate Light Emission in Semiconductors Mediated by Electric Double Layers. <i>Advanced Materials</i> , 2017 , 29, 1606918	23.6	31
283	Surface-reconstructed Cu electrode via a facile electrochemical anodization-reduction process for low overpotential CO ₂ reduction. <i>Journal of Saudi Chemical Society</i> , 2017 , 21, 708-712	4.3	5
282	Janus monolayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2017 , 12, 744-749	28	759
281	InGaN/GaN nanowires epitaxy on large-area MoS ₂ for high-performance light-emitters. <i>RSC Advances</i> , 2017 , 7, 26665-26672	3.6	22
280	Graphene-Au nanoparticle based vertical heterostructures: A novel route towards high-ZT Thermoelectric devices. <i>Nano Energy</i> , 2017 , 38, 385-391	16.9	19
279	Extraordinarily Stretchable All-Carbon Collaborative Nanoarchitectures for Epidermal Sensors. <i>Advanced Materials</i> , 2017 , 29, 1606411	23.6	142
278	Nitrogen-Doped Nanoporous Carbon Membranes with Co/CoP Janus-Type Nanocrystals as Hydrogen Evolution Electrode in Both Acidic and Alkaline Environments. <i>ACS Nano</i> , 2017 , 11, 4358-4364	16.4	166
277	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. <i>Nature Communications</i> , 2017 , 8, 13592	16.9	120
276	Atomic-Monolayer Two-Dimensional Lateral Quasi-Heterojunction Bipolar Transistors with Resonant Tunneling Phenomenon. <i>ACS Nano</i> , 2017 , 11, 11015-11023	16.4	29
275	Structurally Deformed MoS for Electrochemically Stable, Thermally Resistant, and Highly Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2017 , 29, 1703863	23.6	77
274	Evidence of indirect gap in monolayer WSe. <i>Nature Communications</i> , 2017 , 8, 929	16.9	67
273	Visualizing band offsets and edge states in bilayer-monolayer transition metal dichalcogenides lateral heterojunction. <i>Nature Communications</i> , 2016 , 6, 10349	16.9	95
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