Lain-Jong Li

List of Publications by Year
in descending order

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451 papers	66,146 citations	807 118 h-index	794 247 g-index
458 all docs	458 docs citations	458 times ranked	51416 citing authors

#	Article	IF	Citations
1	Liquid-phase catalytic growth of graphene. Journal of Materials Chemistry C, 2022, 10, 571-578.	2.7	2
2	Wafer-scale single-orientation 2D layers by atomic edge-guided epitaxial growth. Chemical Society Reviews, 2022, 51, 803-811.	18.7	18
3	2D Materialsâ€Based Static Randomâ€Access Memory. Advanced Materials, 2022, 34, e2107894.	11.1	12
4	Two-Dimensional Cs₂AgBiBr₆/WS₂ Heterostructure-Based Photodetector with Boosted Detectivity via Interfacial Engineering. ACS Nano, 2022, 16, 3985-3993.	7.3	49
5	Bi₂O₂Se-Based True Random Number Generator for Security Applications. ACS Nano, 2022, 16, 6847-6857.	7.3	18
6	Alloy-buffer-controlled van der Waals epitaxial growth of aligned tellurene. Nano Research, 2022, 15, 5712-5718.	5.8	4
7	Unusual Activity of Rationally Designed Cobalt Phosphide/Oxide Heterostructure Composite for Hydrogen Production in Alkaline Medium. ACS Nano, 2022, 16, 3906-3916.	7.3	50
8	High-Î° perovskite membranes as insulators for two-dimensional transistors. Nature, 2022, 605, 262-267.	13.7	109
9	Nanoscale Electronic Transparency of Wafer-Scale Hexagonal Boron Nitride. Nano Letters, 2022, , .	4.5	2
10	Directly Visualizing Photoinduced Renormalized Momentum-Forbidden Electronic Quantum States in an Atomically Thin Semiconductor. ACS Nano, 2022, 16, 9660-9666.	7.3	1
11	Electric-field-induced metal-insulator transition and quantum transport in large-area polycrystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></ monolayers. Physical Review Materials, 2022, 6, .	0.9	0
12	Low-defect-density WS2 by hydroxide vapor phase deposition. Nature Communications, 2022, 13, .	5.8	37
13	Ultrasensitive broadband photodetectors based on two-dimensional Bi₂O₂Te films. Journal of Materials Chemistry C, 2021, 9, 13713-13721.	2.7	12
14	One-step synthesis of single-site vanadium substitution in 1T-WS2 monolayers for enhanced hydrogen evolution catalysis. Nature Communications, 2021, 12, 709.	5.8	137
15	High On-State Current in Chemical Vapor Deposited Monolayer MoS₂nFETs With Sn Ohmic Contacts. IEEE Electron Device Letters, 2021, 42, 272-275.	2.2	38
16	Strain-Directed Layer-By-Layer Epitaxy Toward van der Waals Homo- and Heterostructures. , 2021, 3, 442-453.		9
17	Bi₂O₂Se-Based Memristor-Aided Logic. ACS Applied Materials & Interfaces, 2021, 13, 15391-15398.	4.0	16
18	Atomic-Layer Controlled Interfacial Band Engineering at Two-Dimensional Layered PtSe₂/Si Heterojunctions for Efficient Photoelectrochemical Hydrogen Production. ACS Nano, 2021, 15, 4627-4635.	7.3	27

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19	Lithiumâ€Ion Desolvation Induced by Nitrate Additives Reveals New Insights into High Performance Lithium Batteries. Advanced Functional Materials, 2021, 31, 2101593.	7.8	100
20	Giant Ferroelectric Resistance Switching Controlled by a Modulatory Terminal for Lowâ€Power Neuromorphic Inâ€Memory Computing. Advanced Materials, 2021, 33, e2008709.	11.1	63
21	Optically Controlled Ferroelectric Nanodomains for Logic-in-Memory Photonic Devices With Simplified Structures. IEEE Transactions on Electron Devices, 2021, 68, 1992-1995.	1.6	11
22	Typeâ€I Energy Level Alignment at the PTCDAâ€”Monolayer MoS₂ Interface Promotes Resonance Energy Transfer and Luminescence Enhancement. Advanced Science, 2021, 8, 2100215.	5.6	19
23	Ferroelectric Switching: Giant Ferroelectric Resistance Switching Controlled by a Modulatory Terminal for Lowâ€Power Neuromorphic Inâ€Memory Computing (Adv. Mater. 21/2021). Advanced Materials, 2021, 33, 2170167.	11.1	1
24	Temperatureâ€Dependent Electronic Groundâ€State Charge Transfer in van der Waals Heterostructures. Advanced Materials, 2021, 33, e2008677.	11.1	12
25	Ultralow contact resistance between semimetal and monolayer semiconductors. Nature, 2021, 593, 211-217.	13.7	579
26	Atomic Layer Nucleation Engineering: Inhibitor-Free Area-Selective Atomic Layer Deposition of Oxide and Nitride. Chemistry of Materials, 2021, 33, 5584-5590.	3.2	6
27	Van der Waals Heterostructures: Temperatureâ€Dependent Electronic Groundâ€State Charge Transfer in van der Waals Heterostructures (Adv. Mater. 29/2021). Advanced Materials, 2021, 33, 2170229.	11.1	0
28	Spatial Control of Dynamic pâ€“iâ€“n Junctions in Transition Metal Dichalcogenide Light-Emitting Devices. ACS Nano, 2021, 15, 12911-12921.	7.3	8
29	The Schottkyâ€“Mott Rule Expanded for Two-Dimensional Semiconductors: Influence of Substrate Dielectric Screening. ACS Nano, 2021, 15, 14794-14803.	7.3	25
30	Bottom-Up Synthesized All-Thermal-Catalyst Aerogels for Heat-Regenerative Air Filtration. Nano Letters, 2021, 21, 8160-8165.	4.5	6
31	Capturing 3D atomic defects and phonon localization at the 2D heterostructure interface. Science Advances, 2021, 7, eabi6699.	4.7	13
32	Precision Chemistry in Two-Dimensional Materials: Adding, Removing, and Replacing the Atoms at Will. Accounts of Materials Research, 2021, 2, 863-868.	5.9	4
33	Van der Waals heterostructures with one-dimensional atomic crystals. Progress in Materials Science, 2021, 122, 100856.	16.0	29
34	Layered Semiconducting 2D Materials for Future Transistor Applications. Small Structures, 2021, 2, 2000103.	6.9	85
35	Recent Progress on Two-Dimensional Materials. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2021, .	2.2	269
36	Two-dimensional solid-phase crystallization toward centimeter-scale monocrystalline layered MoTe₂via two-step annealing. Journal of Materials Chemistry C, 2021, 9, 15566-15576.	2.7	7

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37	Transistors based on two-dimensional materials for future integrated circuits. Nature Electronics, 2021, 4, 786-799.	13.1	335
38	Unraveling the origin of ferroelectric resistance switching through the interfacial engineering of layered ferroelectric-metal junctions. Nature Communications, 2021, 12, 7291.	5.8	26
39	Strain engineering and epitaxial stabilization of halide perovskites. Nature, 2020, 577, 209-215.	13.7	417
40	High-Accuracy Deep Neural Networks Using a Contralateral-Gated Analog Synapse Composed of Ultrathin MoSâ„‚ nFET and Nonvolatile Charge-Trap Memory. IEEE Electron Device Letters, 2020, 41, 1649-1652.	2.2	3
41	Giant Electroresistance Switching of Two-dimensional Ferroelectric Î±-In2Se3 on p+-Si. , 2020, , .		0
42	Yield, variability, reliability, and stability of two-dimensional materials based solid-state electronic devices. Nature Communications, 2020, 11, 5689.	5.8	62
43	Uncovering Atomic and Nano-scale Deformations in Two-dimensional Lateral Heterojunctions. Microscopy and Microanalysis, 2020, 26, 1630-1631.	0.2	0
44	Optoelectronic Ferroelectric Domainâ€Wall Memories Made from a Single Van Der Waals Ferroelectric. Advanced Functional Materials, 2020, 30, 2004206.	7.8	67
45	Additive manufacturing assisted van der Waals integration of 3D/3D hierarchically functional nanostructures. Communications Materials, 2020, 1, .	2.9	5
46	In Operando X-ray Studies of High-Performance Lithium-Ion Storage in Keplerate-Type Polyoxometalate Anodes. ACS Applied Materials & Interfaces, 2020, 12, 40296-40309.	4.0	17
47	Epitaxial Growth and Determination of Band Alignment of Bi₂Te₃â€“WSe₂ Vertical van der Waals Heterojunctions. , 2020, 2, 1351-1359.		9
48	Temperature-dependent optical constants of monolayer $${ext {MoS}}_2$$, $${ext {MoSe}}_2$$, $${ext {WS}}_2$$, and $${ext {WSe}}_2$$: spectroscopic ellipsometry and first-principles calculations. Scientific Reports, 2020, 10, 15282.	1.6	52
49	Ledge-directed epitaxy of continuously self-aligned single-crystalline nanoribbons of transition metal dichalcogenides. Nature Materials, 2020, 19, 1300-1306.	13.3	104
50	Energy-Efficient Monolithic 3-D SRAM Cell With BEOL MoS2 FETs for SoC Scaling. IEEE Transactions on Electron Devices, 2020, 67, 4216-4221.	1.6	11
51	Aberration-corrected STEM imaging of 2D materials: Artifacts and practical applications of threefold astigmatism. Science Advances, 2020, 6, .	4.7	13
52	Mobility-Fluctuation-Controlled Linear Positive Magnetoresistance in 2D Semiconductor Bi₂O₂Se Nanoplates. ACS Nano, 2020, 14, 11319-11326.	7.3	22
53	Bidirectional Allâ€Optical Synapses Based on a 2D Bi₂O₂Se/Graphene Hybrid Structure for Multifunctional Optoelectronics. Advanced Functional Materials, 2020, 30, 2001598.	7.8	123
54	Mixed-state electron ptychography enables sub-angstrom resolution imaging with picometer precision at low dose. Nature Communications, 2020, 11, 2994.	5.8	63

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55	Two-dimensional materials as anodes for sodium-ion batteries. Materials Today Advances, 2020, 6, 100054.	2.5	49
56	Nonvolatile molecular memory with the multilevel states based on MoS₂ nanochannel field effect transistor through tuning gate voltage to control molecular configurations. Nanotechnology, 2020, 31, 275204.	1.3	3
57	Layer-Dependent and In-Plane Anisotropic Properties of Low-Temperature Synthesized Few-Layer PdSe₂ Single Crystals. ACS Nano, 2020, 14, 4963-4972.	7.3	64
58	Wafer-scale single-crystal hexagonal boron nitride monolayers on CuÂ(111). Nature, 2020, 579, 219-223.	13.7	409
59	Self-Exfoliated Synthesis of Transition Metal Phosphate Nanolayers for Selective Aerobic Oxidation of Ethyl Lactate to Ethyl Pyruvate. ACS Catalysis, 2020, 10, 3958-3967.	5.5	17
60	Solution-Processed Mixed-Dimensional Hybrid Perovskite/Carbon Nanotube Electronics. ACS Nano, 2020, 14, 3969-3979.	7.3	30
61	Steam-Assisted Chemical Vapor Deposition of Zeolitic Imidazolate Framework. , 2020, 2, 485-491.		26
62	Pinning-Free Edge Contact Monolayer MoS₂ FET. , 2020, , .		8
63	Reliability of Ultrathin High-Îº Dielectrics on Chemical-vapor Deposited 2D Semiconductors. , 2020, , .		5
64	Switchable NAND and NOR Logic Computing in Single Triple-Gate Monolayer MoS2 n-FET. , 2020, , .		3
65	Impact of Schottky Barrier on the Performance of Two-Dimensional Material Transistors. , 2020, , .		2
66	Synergistic additive-mediated CVD growth and chemical modification of 2D materials. Chemical Society Reviews, 2019, 48, 4639-4654.	18.7	108
67	First demonstration of 40-nm channel length top-gate WS₂ pFET using channel area-selective CVD growth directly on SiO_x/Si substrate. , 2019, , .		22
68	An Aqueous Rechargeable Fluoride Ion Battery with Dual Fluoride Electrodes. Journal of the Electrochemical Society, 2019, 166, A2419-A2424.	1.3	19
69	Layer Rotation-Angle-Dependent Excitonic Absorption in van der Waals Heterostructures Revealed by Electron Energy Loss Spectroscopy. ACS Nano, 2019, 13, 9541-9550.	7.3	25
70	Growth of 2H stacked WSe₂ bilayers on sapphire. Nanoscale Horizons, 2019, 4, 1434-1442.	4.1	20
71	Quasi-Two-Dimensional Se-Terminated Bismuth Oxychalcogenide (Bi₂O₂Se). ACS Nano, 2019, 13, 13439-13444.	7.3	61
72	New Insight on the Role of Electrolyte Additives in Rechargeable Lithium Ion Batteries. ACS Energy Letters, 2019, 4, 2613-2622.	8.8	160

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73	Demonstration of 40-nm Channel Length Top-Gate p-MOSFET of WS₂ Channel Directly Grown on SiO$_{{x}}$ /Si Substrates Using Area-Selective CVD Technology. IEEE Transactions on Electron Devices, 2019, 66, 5381-5386.	1.6	5
74	2D Materials Characterization: Should We Rely on HR STEM Imaging?. Microscopy and Microanalysis, 2019, 25, 1638-1639.	0.2	0
75	How 2D semiconductors could extend Mooreâ€™s law. Nature, 2019, 567, 169-170.	13.7	222
76	Demonstration of the key substrate-dependent charge transfer mechanisms between monolayer MoS2 and molecular dopants. Communications Physics, 2019, 2, .	2.0	38
77	Graphene and two-dimensional materials for silicon technology. Nature, 2019, 573, 507-518.	13.7	936
78	Electrochemical Conversion of CO₂ to 2-Bromoethanol in a Membraneless Cell. ACS Energy Letters, 2019, 4, 600-605.	8.8	21
79	Engineering Point-Defect States in Monolayer WSe₂. ACS Nano, 2019, 13, 1595-1602.	7.3	35
80	Scalable fabrication of a complementary logic inverter based on MoS₂ fin-shaped field effect transistors. Nanoscale Horizons, 2019, 4, 683-688.	4.1	31
81	Electronic band dispersion determination in azimuthally disordered transition-metal dichalcogenide monolayers. Communications Physics, 2019, 2, .	2.0	11
82	Toward the Growth of High Mobility 2D Transition Metal Dichalcogenide Semiconductors. Advanced Materials Interfaces, 2019, 6, 1900220.	1.9	42
83	Gateâ€Tunable and Multidirectionâ€Switchable Memristive Phenomena in a Van Der Waals Ferroelectric. Advanced Materials, 2019, 31, e1901300.	11.1	121
84	Plasmonicâ€Enhanced Light Harvesting and Perovskite Solar Cell Performance Using Au Biometric Dimers with Broadband Structural Darkness. Solar Rrl, 2019, 3, 1900138.	3.1	34
85	Design and Mechanistic Study of Highly Durable Carbon-Coated Cobalt Diphosphide Coreâ€“Shell Nanostructure Electrocatalysts for the Efficient and Stable Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 20752-20761.	4.0	20
86	Point Defects and Localized Excitons in 2D WSe₂. ACS Nano, 2019, 13, 6050-6059.	7.3	127
87	Continuous desalination with a metal-free redox-mediator. Journal of Materials Chemistry A, 2019, 7, 13941-13947.	5.2	38
88	MXene based self-assembled cathode and antifouling separator for high-rate and dendrite-inhibited Liâ€“S battery. Nano Energy, 2019, 61, 478-485.	8.2	131
89	2D Materials: Metalâ€Guided Selective Growth of 2D Materials: Demonstration of a Bottomâ€Up CMOS Inverter (Adv. Mater. 18/2019). Advanced Materials, 2019, 31, 1970132.	11.1	1
90	One-Step Vapor-Phase Synthesis and Quantum-Confined Exciton in Single-Crystal Platelets of Hybrid Halide Perovskites. Journal of Physical Chemistry Letters, 2019, 10, 2363-2371.	2.1	25

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91	Colorless-to-colorful switching electrochromic polyimides with very high contrast ratio. Nature Communications, 2019, 10, 1239.	5.8	109
92	Negative capacitance from the inductance of ferroelectric switching. Communications Physics, 2019, 2, .	2.0	14
93	Metalâ€Guided Selective Growth of 2D Materials: Demonstration of a Bottomâ€Up CMOS Inverter. Advanced Materials, 2019, 31, e1900861.	11.1	36
94	Cross-plane thermoelectric figure of merit in graphene - C60 heterostructures at room temperature. FlatChem, 2019, 14, 100089.	2.8	10
95	Dielectric impact on exciton binding energy and quasiparticle bandgap in monolayer WS ₂ and WSe ₂. 2D Materials, 2019, 6, 025028.	2.0	44
96	Monolithic Heterogeneous Integration of BEOL Power Gating Transistors of Carbon Nanotube Networks with FEOL Si Ring Oscillator Circuits. , 2019, , .		5
97	Tailoring excitonic states of van der Waals bilayers through stacking configuration, band alignment, and valley spin. Science Advances, 2019, 5, eaax7407.	4.7	56
98	Effective N-methyl-2-pyrrolidone wet cleaning for fabricating high-performance monolayer MoS2 transistors. Nano Research, 2019, 12, 303-308.	5.8	13
99	Experimental observation of chiral phonons in monolayer WSe2. , 2019, , .		0
100	Nanoscale Surface Photovoltage Mapping of 2D Materials and Heterostructures by Illuminated Kelvin Probe Force Microscopy. Journal of Physical Chemistry C, 2018, 122, 13564-13571.	1.5	30
101	Chemical hole doping into large-area transition metal dichalcogenide monolayers using boron-based oxidant. Japanese Journal of Applied Physics, 2018, 57, 02CB15.	0.8	9
102	Selfâ€Aligned and Scalable Growth of Monolayer WSe₂â€“MoS₂ Lateral Heterojunctions. Advanced Functional Materials, 2018, 28, 1706860.	7.8	48
103	Liquid-solid surface phase transformation of fluorinated fullerene on monolayer tungsten diselenide. Physical Review B, 2018, 97, .	1.1	7
104	Multidirection Piezoelectricity in Mono- and Multilayered Hexagonal Î±-In₂Se₃. ACS Nano, 2018, 12, 4976-4983.	7.3	215
105	Circular Dichroism Control of Tungsten Diselenide (WSe₂) Atomic Layers with Plasmonic Metamolecules. ACS Applied Materials & Interfaces, 2018, 10, 15996-16004.	4.0	25
106	Negative circular polarization emissions from WSe2/MoSe2 commensurate heterobilayers. Nature Communications, 2018, 9, 1356.	5.8	88
107	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor In₂Se₃. Nano Letters, 2018, 18, 1253-1258.	4.5	509
108	Observation of chiral phonons. Science, 2018, 359, 579-582.	6.0	217

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109	MoS_x-coated NbS₂ nanoflakes grown on glass carbon: an advanced electrocatalyst for the hydrogen evolution reaction. Nanoscale, 2018, 10, 3444-3450.	2.8	24
110	Strain distributions and their influence on electronic structures of WSe2â€“MoS2 laterally strained heterojunctions. Nature Nanotechnology, 2018, 13, 152-158.	15.6	206
111	Direct determination of monolayer MoS₂and WSe₂exciton binding energies on insulating and metallic substrates. 2D Materials, 2018, 5, 025003.	2.0	142
112	Transmissive-to-black fast electrochromic switching from a long conjugated pendant group and a highly dispersed polymer/SWNT. Polymer Chemistry, 2018, 9, 619-626.	1.9	29
113	New Insights on Graphite Anode Stability in Rechargeable Batteries: Li Ion Coordination Structures Prevail over Solid Electrolyte Interphases. ACS Energy Letters, 2018, 3, 335-340.	8.8	217
114	Functional Two-Dimensional Coordination Polymeric Layer as a Charge Barrier in Liâ€“S Batteries. ACS Nano, 2018, 12, 836-843.	7.3	76
115	Selectively Plasmon-Enhanced Second-Harmonic Generation from Monolayer Tungsten Diselenide on Flexible Substrates. ACS Nano, 2018, 12, 1859-1867.	7.3	97
116	Observation of Wigner crystal phase and ripplon-limited mobility behavior in monolayer CVD MoS2with grain boundary. Nanotechnology, 2018, 29, 225707.	1.3	0
117	Epitaxial Growth of Two-Dimensional Layered Transition-Metal Dichalcogenides: Growth Mechanism, Controllability, and Scalability. Chemical Reviews, 2018, 118, 6134-6150.	23.0	285
118	Hall effect biosensors with ultraclean graphene film for improved sensitivity of label-free DNA detection. Biosensors and Bioelectronics, 2018, 99, 85-91.	5.3	60
119	Sub-nanometre channels embedded in two-dimensional materials. Nature Materials, 2018, 17, 129-133.	13.3	97
120	Synthesis and optoelectronic applications of graphene/transition metal dichalcogenides flat-pack assembly. Carbon, 2018, 127, 602-610.	5.4	15
121	Mapping Strain and Relaxation in 2D Heterojunctions with Sub-picometer Precision. Microscopy and Microanalysis, 2018, 24, 1588-1589.	0.2	0
122	Recognizing the Mechanism of Sulfurized Polyacrylonitrile Cathode Materials for Liâ€“S Batteries and beyond in Alâ€“S Batteries. ACS Energy Letters, 2018, 3, 2899-2907.	8.8	224
123	High Performance WSe<inf>2</inf> Transistors with Multilayer Graphene Source/Drain. , 2018, , .		0
124	Energy-Resolved Photoconductivity Mapping in a Monolayerâ€“Bilayer WSe2 Lateral Heterostructure. Nano Letters, 2018, 18, 7200-7206.	4.5	26
125	Metal contact and carrier transport in single crystalline CH3NH3PbBr3 perovskite. Nano Energy, 2018, 53, 817-827.	8.2	26
126	Roomâ€Temperature Ferroelectricity in Hexagonally Layered Î±â€In₂Se₃ Nanoflakes down to the Monolayer Limit. Advanced Functional Materials, 2018, 28, 1803738.	7.8	241

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127	Recent Advances in van der Waals Heterojunctions Based on Semiconducting Transition Metal Dichalcogenides. Advanced Electronic Materials, 2018, 4, 1800270.	2.6	25
128	Efficient electrochemical transformation of CO₂ to C₂/C₃ chemicals on benzimidazole-functionalized copper surfaces. Chemical Communications, 2018, 54, 11324-11327.	2.2	39
129	Enhanced Emission from WSe₂ Monolayers Coupled to Circular Bragg Gratings. ACS Photonics, 2018, 5, 3950-3955.	3.2	31
130	A Nanostructuring Method to Decouple Electrical and Thermal Transport through the Formation of Electrically Triggered Conductive Nanofilaments. Advanced Materials, 2018, 30, e1705385.	11.1	13
131	Phase Inversion Strategy to Flexible Freestanding Electrode: Critical Coupling of Binders and Electrolytes for High Performance Liâ€“S Battery. Advanced Functional Materials, 2018, 28, 1802244.	7.8	64
132	Unraveling Spatially Heterogeneous Ultrafast Carrier Dynamics of Single-Layer WSe₂ by Femtosecond Time-Resolved Photoemission Electron Microscopy. Nano Letters, 2018, 18, 5172-5178.	4.5	42
133	Two-dimensional materials with piezoelectric and ferroelectric functionalities. Npj 2D Materials and Applications, 2018, 2, .	3.9	258
134	Deep-ultraviolet Raman scattering spectroscopy of monolayer WS2. Scientific Reports, 2018, 8, 11398.	1.6	15
135	Thermoelectrics: A Nanostructuring Method to Decouple Electrical and Thermal Transport through the Formation of Electrically Triggered Conductive Nanofilaments (Adv. Mater. 28/2018). Advanced Materials, 2018, 30, 1870243.	11.1	0
136	Facile Doping in Two-Dimensional Transition-Metal Dichalcogenides by UV Light. ACS Applied Materials & Interfaces, 2018, 10, 29893-29901.	4.0	18
137	Circular Polarized Emission of Tungsten Diselenide (WSe2) Atomic Layers with Plasmonic Metasurface. , 2018, , .		0
138	Spectroscopic signature of chiral phonons in 2D materials. , 2018, , .		0
139	Dynamical observations on the crack tip zone and stress corrosion of two-dimensional MoS2. Nature Communications, 2017, 8, 14116.	5.8	69
140	Symmetrical synergy of hybrid Co9S8-MoSx electrocatalysts for hydrogen evolution reaction. Nano Energy, 2017, 32, 470-478.	8.2	116
141	Impact of N-plasma and Ga-irradiation on MoS2 layer in molecular beam epitaxy. Applied Physics Letters, 2017, 110, .	1.5	38
142	Interlayer couplings, MoirÃ© patterns, and 2D electronic superlattices in MoS ₂ /WSe ₂ hetero-bilayers. Science Advances, 2017, 3, e1601459.	4.7	414
143	Scalable Approach To Construct Free-Standing and Flexible Carbon Networks for Lithiumâ€“Sulfur Battery. ACS Applied Materials & Interfaces, 2017, 9, 8047-8054.	4.0	78
144	Band Alignment at GaN/Single-Layer WSe₂ Interface. ACS Applied Materials & Interfaces, 2017, 9, 9110-9117.	4.0	72

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145	Facile synthesis of carbon/MoO 3 nanocomposites as stable battery anodes. Journal of Power Sources, 2017, 348, 270-280.	4.0	54
146	Ultrathin 1T-phase MoS 2 nanosheets decorated hollow carbon microspheres as highly efficient catalysts for solar energy harvesting and storage. Journal of Power Sources, 2017, 345, 156-164.	4.0	62
147	A Versatile and Simple Approach to Generate Light Emission in Semiconductors Mediated by Electric Double Layers. Advanced Materials, 2017, 29, 1606918.	11.1	37
148	Surface-reconstructed Cu electrode via a facile electrochemical anodization-reduction process for low overpotential CO2 reduction. Journal of Saudi Chemical Society, 2017, 21, 708-712.	2.4	8
149	Janus monolayers of transition metal dichalcogenides. Nature Nanotechnology, 2017, 12, 744-749.	15.6	1,459
150	Advances in Twoâ€Dimensional Layered Materials. Advanced Functional Materials, 2017, 27, 1701403.	7.8	11
151	InGaN/GaN nanowires epitaxy on large-area MoS2 for high-performance light-emitters. RSC Advances, 2017, 7, 26665-26672.	1.7	32
152	Graphene-Au nanoparticle based vertical heterostructures: A novel route towards high- ZT Thermoelectric devices. Nano Energy, 2017, 38, 385-391.	8.2	26
153	Extraordinarily Stretchable Allâ€Carbon Collaborative Nanoarchitectures for Epidermal Sensors. Advanced Materials, 2017, 29, 1606411.	11.1	194
154	Nitrogen-Doped Nanoporous Carbon Membranes with Co/CoP Janus-Type Nanocrystals as Hydrogen Evolution Electrode in Both Acidic and Alkaline Environments. ACS Nano, 2017, 11, 4358-4364.	7.3	199
155	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. Nature Communications, 2017, 8, 13592.	5.8	142
156	Atomic-Monolayer Two-Dimensional Lateral Quasi-Heterojunction Bipolar Transistors with Resonant Tunneling Phenomenon. ACS Nano, 2017, 11, 11015-11023.	7.3	45
157	Structurally Deformed MoS₂ for Electrochemically Stable, Thermally Resistant, and Highly Efficient Hydrogen Evolution Reaction. Advanced Materials, 2017, 29, 1703863.	11.1	107
158	Evidence of indirect gap in monolayer WSe2. Nature Communications, 2017, 8, 929.	5.8	98
159	2D Materials: Single Atomically Sharp Lateral Monolayer pâ€n Heterojunction Solar Cells with Extraordinarily High Power Conversion Efficiency (Adv. Mater. 32/2017). Advanced Materials, 2017, 29, .	11.1	0
160	Symmetric synergy of hybrid CoS₂â€“WS₂ electrocatalysts for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 15552-15558.	5.2	81
161	Type-I band alignment at MoS2/In0.15Al0.85N lattice matched heterojunction and realization of MoS2 quantum well. Applied Physics Letters, 2017, 111, .	1.5	30
162	Metalâ€“Organic Framework-Based Separators for Enhancing Liâ€“S Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. ACS Energy Letters, 2017, 2, 2362-2367.	8.8	229

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163	Disorder-dependent valley properties in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>WS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	1.1	17
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