

# Bilu Liu

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Growth of 2D Cr <sub>2</sub> O <sub>3</sub> CrN Mosaic Heterostructures with Tunable Room-Temperature Ferromagnetism. <i>Advanced Materials</i> , 2024, 36, .	24.3	7
2	Resolidified Chalcogen-Assisted Growth of Bilayer Semiconductors with Controlled Stacking Orders. <i>Small</i> , 2024, 20, .	11.2	3
3	Ampere-Level Current Density CO <sub>2</sub> Reduction with High C <sub>2+</sub> Selectivity on La(OH) <sub>3</sub> -Modified Cu Catalysts. <i>Small</i> , 2024, 20, .	11.2	4
4	Multiscale Confinement Engineering for Boosting Overall Water Splitting by One-Step Stringing of a Single Atom and a Janus Nanoparticle within a Carbon Nanotube. <i>ACS Nano</i> , 2024, 18, 1204-1213.	15.3	2
5	Locally Strained 2D Materials: Preparation, Properties, and Applications. <i>Advanced Materials</i> , 2024, 36, .	24.3	7
6	Observation on Microenvironment Changes of Dynamic Catalysts in Acidic CO <sub>2</sub> Reduction. <i>Journal of the American Chemical Society</i> , 2024, 146, 5333-5342.	14.6	12
7	Deciphering the contributing motifs of reconstructed cobalt (II) sulfides catalysts in Li-CO <sub>2</sub> batteries. <i>Nature Communications</i> , 2024, 15, .	13.2	4
8	An Electro-Optical Kerr Device Based on 2D Boron Nitride Liquid Crystals for Solar-Blind Communications. <i>Advanced Materials</i> , 2024, 36, .	24.3	0
9	An inorganic liquid crystalline dispersion with 2D ferroelectric moieties. <i>National Science Review</i> , 2024, 11, .	9.5	3
10	Pt-Pyrrole Complex-Assisted Synthesis of Carbon-Supported Pt Intermetallics for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. <i>ACS Catalysis</i> , 2024, 14, 6992-7000.	11.7	0
11	Why do platinum catalysts show diverse electrocatalytic performance?. <i>Fundamental Research</i> , 2023, 3, 804-808.	3.8	5
12	Homologous gradient heterostructure-based artificial synapses for neuromorphic computation. <i>Information Materials</i> , 2023, 5, .	20.7	9
13	Recent advances in 2D organic-inorganic heterostructures for electronics and optoelectronics. <i>SmartMat</i> , 2023, 4, .	14.9	29
14	2D Ferroelectricity in hetero-phase junction. <i>Nature Nanotechnology</i> , 2023, 18, 5-6.	30.5	2
15	Deep ultraviolet hydrogel based on 2D cobalt-doped titanate. <i>Light: Science and Applications</i> , 2023, 12, .	16.2	18
16	Dynamically activating Ni-based catalysts with self-anchored mononuclear Fe for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2023, 11, 10228-10238.	10.5	6
17	Resolidified Chalcogen Precursors for High-Quality 2D Semiconductor Growth. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	14.8	12
18	A Malleable Composite Dough with Well-Dispersed and High-Content Boron Nitride Nanosheets. <i>ACS Nano</i> , 2023, 17, 4886-4895.	15.3	26

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19	Raman spectroscopy and carrier scattering in 2D tungsten disulfides with vanadium doping. <i>Materials Chemistry Frontiers</i> , 2023, 7, 2059-2067.	5.9	3
20	Resolidified Chalcogen Precursors for High-Quality 2D Semiconductor Growth. <i>Angewandte Chemie</i> , 2023, 135, .	2.1	2
21	Two-Dimensional Metal Coordination Polymer Derived Indium Nanosheet for Efficient Carbon Dioxide Reduction to Formate. <i>ACS Nano</i> , 2023, 17, 9338-9346.	15.3	20
22	Internal ion transport in ionic 2D CuInP2S6 enabling multi-state neuromorphic computing with low operation current. <i>Materials Today</i> , 2023, 66, 9-16.	18.1	6
23	Scalable Production of 2D Minerals by Polymer Intercalation and Adhesion for Multifunctional Applications. <i>Small Methods</i> , 2023, 7, .	9.6	2
24	Inside Cover: Resolidified Chalcogen Precursors for High-Quality 2D Semiconductor Growth ( <i>Angew.</i> )	14.8	0
25	Innentitelbild: Resolidified Chalcogen Precursors for High-Quality 2D Semiconductor Growth ( <i>Angew. Chem.</i> 29/2023). <i>Angewandte Chemie</i> , 2023, 135, .	2.1	0
26	A robust chromium-iridium oxide catalyst for high-current-density acidic oxygen evolution in proton exchange membrane electrolyzers. <i>Energy and Environmental Science</i> , 2023, 16, 3734-3742.	32.2	36
27	A corrosion-resistant RuMoNi catalyst for efficient and long-lasting seawater oxidation and anion exchange membrane electrolyzer. <i>Nature Communications</i> , 2023, 14, .	13.2	122
28	Ultrafast charge transfer in mixed-dimensional WO <sub>3-x</sub> nanowire/WSe <sub>2</sub> heterostructures for attomolar-level molecular sensing. <i>Nature Communications</i> , 2023, 14, .	13.2	29
29	Selective electrochemical synthesis of urea from nitrate and CO <sub>2</sub> via relay catalysis on hybrid catalysts. <i>Nature Catalysis</i> , 2023, 6, 939-948.	28.3	69
30	A work-function-tunable 2D alloy for electrical contacts. <i>Nature Electronics</i> , 2023, 6, 795-796.	18.9	0
31	BaTiO <sub>3</sub> -assisted exfoliation of boron nitride nanosheets for high-temperature energy storage dielectrics and thermal management. <i>Chemical Engineering Journal</i> , 2022, 427, 131860.	13.0	24
32	Recent Advances in Design of Electrocatalysts for High-Current-Density Water Splitting. <i>Advanced Materials</i> , 2022, 34, e2108133.	24.3	390
33	An ultrathin and highly efficient interlayer for lithium-sulfur batteries with high sulfur loading and lean electrolyte. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7653-7659.	10.5	41
34	2D Functional Minerals as Sustainable Materials for Magneto-Optics. <i>Advanced Materials</i> , 2022, 34, e2110464.	24.3	33
35	Designing Electrophilic and Nucleophilic Dual Centers in the ReS <sub>2</sub> Plane toward Efficient Bifunctional Catalysts for Li-CO <sub>2</sub> Batteries. <i>Journal of the American Chemical Society</i> , 2022, 144, 3106-3116.	14.6	124
36	Sustainable and high-performance Zn dual-ion batteries with a hydrogel-based water-in-salt electrolyte. <i>Energy Storage Materials</i> , 2022, 47, 187-194.	18.4	42

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37	Layer-Dependent Raman Spectroscopy and Electronic Applications of Wide-Bandgap 2D Semiconductor $\text{ZrNCl}$ . <i>Small</i> , 2022, 18, e2107490.	11.2	5
38	Carrier Trapping in Wrinkled 2D Monolayer $\text{MoS}_2$ for Ultrathin Memory. <i>ACS Nano</i> , 2022, 16, 6309-6316.	15.3	28
39	Low-Dimensional Electrocatalysts for Acidic Oxygen Evolution: Intrinsic Activity, High Current Density Operation, and Long-Term Stability. <i>Advanced Functional Materials</i> , 2022, 32, .	16.5	68
40	2D material-based transparent hydrogel with engineerable interference colours. <i>Nature Communications</i> , 2022, 13, 1212.	13.2	48
41	Bonsai-inspired AIE nanohybrid photosensitizer based on vermiculite nanosheets for ferroptosis-assisted oxygen self-sufficient photodynamic cancer therapy. <i>Nano Today</i> , 2022, 44, 101477.	12.3	35
42	Substitutional oxygen activated photoluminescence enhancement in monolayer transition metal dichalcogenides. <i>Science China Materials</i> , 2022, 65, 1034-1041.	6.5	8
43	Femtomolar-Level Molecular Sensing of Monolayer Tungsten Diselenide Induced by Heteroatom Doping with Long-Term Stability. <i>Advanced Functional Materials</i> , 2022, 32, .	16.5	23
44	Improving Harsh Environmental Stability of Few-Layer Black Phosphorus by Local Charge Transfer. <i>Advanced Functional Materials</i> , 2022, 32, .	16.5	14
45	Dual-metal precursors for the universal growth of non-layered 2D transition metal chalcogenides with ordered cation vacancies. <i>Science Bulletin</i> , 2022, 67, 1649-1658.	11.1	13
46	Space-Confinement-Induced One-Step Growth of 2D $\text{MoO}_3/\text{MoS}_2$ Vertical Heterostructures for Superior Hydrogen Evolution in Alkaline Electrolytes. <i>Small</i> , 2022, 18, .	11.2	23
47	One-Step Growth of Bilayer $\text{MoTe}_2$ van der Waals Heterostructures with Interlayer-Coupled Resonant Phonon Vibration. <i>ACS Nano</i> , 2022, 16, 11268-11277.	15.3	12
48	Controlled Growth of Wafer-Scale Transition Metal Dichalcogenides with a Vertical Composition Gradient for Artificial Synapses with High Linearity. <i>ACS Nano</i> , 2022, 16, 12318-12327.	15.3	9
49	Magnetically tunable and stable deep-ultraviolet birefringent optics using two-dimensional hexagonal boron nitride. <i>Nature Nanotechnology</i> , 2022, 17, 1091-1096.	30.5	47
50	The 2022 magneto-optics roadmap. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 463003.	2.9	58
51	Dual interfacial engineering of a Chevrel phase electrode material for stable hydrogen evolution at 2500 $\text{mA cm}^{-2}$ . <i>Nature Communications</i> , 2022, 13, .	13.2	87
52	Advances in magneto-optical birefringence effect of 2D materials with extremely large aspect ratio. <i>Applied Physics Letters</i> , 2022, 121, .	3.2	2
53	Dissolution-precipitation growth of uniform and clean two dimensional transition metal dichalcogenides. <i>National Science Review</i> , 2021, 8, nwa115.	9.5	44
54	Mass production of two-dimensional materials beyond graphene and their applications. <i>Nano Research</i> , 2021, 14, 1583-1597.	10.6	60

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55	Six-membered-ring inorganic materials: definition and prospects. National Science Review, 2021, 8, nwaa248.	9.5	14
56	Chemical Vapor Deposition Growth of Two-Dimensional Compound Materials: Controllability, Material Quality, and Growth Mechanism. Accounts of Materials Research, 2021, 2, 36-47.	13.2	136
57	Structure, Preparation, and Applications of 2D Material-Based Metal-Semiconductor Heterostructures. Small Structures, 2021, 2, 2000093.	13.2	76
58	Ultrasensitive molecular sensing of few-layer niobium diselenide. Journal of Materials Chemistry A, 2021, 9, 2725-2733.	10.5	23
59	Modulating Electronic Structure of Monolayer Transition Metal Dichalcogenides by Substitutional Nb-Doping. Advanced Functional Materials, 2021, 31, 2006941.	16.5	63
60	A Durable and Efficient Electrocatalyst for Saline Water Splitting with Current Density Exceeding $2000 \text{ A cm}^{-2}$ . Advanced Functional Materials, 2021, 31, 2010367.	16.5	108
61	Manipulating Electrocatalysis using Mosaic Catalysts. Small Science, 2021, 1, 2000059.	10.6	16
62	Doping Concentration Modulation in Vanadium-Doped Monolayer Molybdenum Disulfide for Synaptic Transistors. ACS Nano, 2021, 15, 7340-7347.	15.3	71
63	Largely Tunable Magneto-Coloration of Monolayer 2D Materials via Size Tailoring. ACS Nano, 2021, 15, 9445-9452.	15.3	9
64	Catalyst-Free Growth of Atomically Thin $\text{Bi}_2\text{O}_2\text{Se}$ Nanoribbons for High-Performance Electronics and Optoelectronics. Advanced Functional Materials, 2021, 31, 2101170.	16.5	24
65	Dissolution-precipitation growth of doped monolayer molybdenum disulfide through double-faced precursor supply. APL Materials, 2021, 9, .	4.8	7
66	Anisotropic moiré optical transitions in twisted monolayer/bilayer phosphorene heterostructures. Nature Communications, 2021, 12, 3947.	13.2	38
67	Independent thickness and lateral size sorting of two-dimensional materials. Science China Materials, 2021, 64, 2739-2746.	6.5	6
68	Synergistic Pt doping and phase conversion engineering in two-dimensional MoS <sub>2</sub> for efficient hydrogen evolution. Nano Energy, 2021, 84, 105898.	16.5	96
69	Collective Behavior Induced Highly Sensitive Magneto-Optic Effect in 2D Inorganic Liquid Crystals. Journal of the American Chemical Society, 2021, 143, 12886-12893.	14.6	12
70	Realization of a non-markov chain in a single 2D mineral RRAM. Science Bulletin, 2021, 66, 1634-1640.	11.1	15
71	Out-of-Plane Resistance Switching of 2D $\text{Bi}_2\text{O}_2\text{Se}$ at the Nanoscale. Advanced Functional Materials, 2021, 31, 2105795.	16.5	12
72	Glue-assisted grinding exfoliation of large-size 2D materials for insulating thermal conduction and large-current-density hydrogen evolution. Materials Today, 2021, 51, 145-154.	18.1	71

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73	A Scalable Artificial Neuron Based on Ultrathin Two-Dimensional Titanium Oxide. ACS Nano, 2021, 15, 15123-15131.	15.3	28
74	Implanting Ru nanoclusters into N-doped graphene for efficient alkaline hydrogen evolution. Carbon, 2021, 183, 362-367.	10.7	45
75	Stone-Wales defect-rich carbon-supported dual-metal single atom sites for Zn-air batteries. Nano Energy, 2021, 90, 106488.	16.5	66
76	Stabilized hydroxide-mediated nickel-based electrocatalysts for high-current-density hydrogen evolution in alkaline media. Energy and Environmental Science, 2021, 14, 4610-4619.	32.2	138
77	A Ta-TaS <sub>2</sub> monolith catalyst with robust and metallic interface for superior hydrogen evolution. Nature Communications, 2021, 12, 6051.	13.2	135
78	High-Performance Waveguide-Integrated Bi <sub>2</sub> O <sub>2</sub> Se Photodetector for Si Photonic Integrated Circuits. ACS Nano, 2021, 15, 15982-15991.	15.3	42
79	Exponentially selective molecular sieving through angstrom pores. Nature Communications, 2021, 12, 7170.	13.2	36
80	Dual-Additive Assisted Chemical Vapor Deposition for the Growth of Mn-Doped 2D MoS <sub>2</sub> with Tunable Electronic Properties. Small, 2020, 16, e1903181.	11.2	60
81	Mass production of 2D materials by intermediate-assisted grinding exfoliation. National Science Review, 2020, 7, 324-332.	9.5	111
82	Unsaturated Single Atoms on Monolayer Transition Metal Dichalcogenides for Ultrafast Hydrogen Evolution. ACS Nano, 2020, 14, 767-776.	15.3	123
83	Ultrasensitive Organic-Modulated CsPbBr <sub>3</sub> Quantum Dot Photodetectors via Fast Interfacial Charge Transfer. Advanced Materials Interfaces, 2020, 7, 1901741.	4.1	20
84	Biodegradable Bi <sub>2</sub> O <sub>2</sub> Se Quantum Dots for Photoacoustic Imaging-Guided Cancer Photothermal Therapy. Small, 2020, 16, e1905208.	11.2	62
85	High-throughput production of cheap mineral-based two-dimensional electrocatalysts for high-current-density hydrogen evolution. Nature Communications, 2020, 11, 3724.	13.2	171
86	Giant magneto-birefringence effect and tuneable colouration of 2D crystal suspensions. Nature Communications, 2020, 11, 3725.	13.2	32
87	High-Fidelity Transfer of 2D Bi <sub>2</sub> O <sub>2</sub> Se and Its Mechanical Properties. Advanced Functional Materials, 2020, 30, 2004960.	16.5	35
88	Synthesis of Ultrahigh-Quality Monolayer Molybdenum Disulfide through In Situ Defect Healing with Thiol Molecules. Small, 2020, 16, e2003357.	11.2	39
89	Magneto-Optic effect of two-dimensional materials and related applications. Nano Select, 2020, 1, 298-310.	3.8	37
90	High yield growth and doping of black phosphorus with tunable electronic properties. Materials Today, 2020, 36, 91-101.	18.1	80

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91	Vertical Chemical Vapor Deposition Growth of Highly Uniform 2D Transition Metal Dichalcogenides. ACS Nano, 2020, 14, 4646-4653.	15.3	110
92	Controllable structure reconstruction of nickel-iron compounds toward highly efficient oxygen evolution. Nanoscale, 2020, 12, 10751-10759.	5.8	22
93	Direct Growth of 1D SWCNT/2D MoS <sub>2</sub> ; Mixed-Dimensional Heterostructures and Their Charge Transfer Property. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, .	5.0	5
94	Controlled one step thinning and doping of two-dimensional transition metal dichalcogenides. Science China Materials, 2019, 62, 1837-1845.	6.5	10
95	Tuning the Hydrogen Evolution Performance of Metallic 2D Tantalum Disulfide by Interfacial Engineering. ACS Nano, 2019, 13, 11874-11881.	15.3	84
96	Perfect proton selectivity in ion transport through two-dimensional crystals. Nature Communications, 2019, 10, 4243.	13.2	70
97	Lights of disenchantment: a study of Max Weber's thesis on the "disenchantment of the world" from the perspective of visual studies. Visual Studies, 2019, 34, 182-200.	0.7	1
98	Engineering Two-Dimensional Materials and Their Heterostructures as High-Performance Electrocatalysts. Electrochemical Energy Reviews, 2019, 2, 373-394.	26.6	81
99	Interstitial copper-doped edge contact for n-type carrier transport in black phosphorus. Informa Mater, 2019, 1, 242-250.	20.7	18
100	Controlled Vapor-Solid Deposition of Millimeter-Size Single Crystal 2D Bi <sub>2</sub> O <sub>2</sub> Se for High-Performance Phototransistors. Advanced Functional Materials, 2019, 29, 1807979.	16.5	156
101	Polymer Nanocomposites with Interpenetrating Gradient Structure Exhibiting Ultrahigh Discharge Efficiency and Energy Density. Advanced Energy Materials, 2019, 9, 1803411.	22.2	140
102	Sandwiching h-BN Monolayer Films between Sulfonated Poly(ether ether ketone) and Nafion for Proton Exchange Membranes with Improved Ion Selectivity. ACS Nano, 2019, 13, 2094-2102.	15.3	53
103	A Directional Strain Sensor Based on Anisotropic Microhoneycomb Cellulose Nanofiber-Carbon Nanotube Hybrid Aerogels Prepared by Unidirectional Freeze Drying. Small, 2019, 15, e1805363.	11.2	82
104	Morphology and surface chemistry engineering toward pH-universal catalysts for hydrogen evolution at high current density. Nature Communications, 2019, 10, 269.	13.2	476
105	Simultaneous Production and Functionalization of Boron Nitride Nanosheets by Sugar-Assisted Mechanochemical Exfoliation. Advanced Materials, 2019, 31, e1804810.	24.3	242
106	Event-Specific Qualitative and Quantitative Detection of Genetically Modified Rice G6H1. Food Analytical Methods, 2019, 12, 440-447.	2.6	5
107	Confined van der Waals Epitaxial Growth of Two-Dimensional Large Single-Crystal In <sub>2</sub> Se <sub>3</sub> for Flexible Broadband Photodetectors. Research, 2019, 2019, 1-10.	5.9	20
108	Confined van der Waals Epitaxial Growth of Two-Dimensional Large Single-Crystal In <sub>2</sub> Se <sub>3</sub> for Flexible Broadband Photodetectors. Research, 2019, 2019, 2763704.	5.9	18

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109	Two-Dimensional MoS <sub>2</sub> Confined Co(OH) <sub>2</sub> Electrocatalysts for Hydrogen Evolution in Alkaline Electrolytes. ACS Nano, 2018, 12, 4565-4573.	15.3	324
110	Two-Dimensional Materials for Thermal Management Applications. Joule, 2018, 2, 442-463.	24.7	390
111	Chemical Vapor Deposition Growth and Applications of Two-Dimensional Materials and Their Heterostructures. Chemical Reviews, 2018, 118, 6091-6133.	51.4	1,089
112	Computational design and property predictions for two-dimensional nanostructures. Materials Today, 2018, 21, 391-418.	18.1	88
113	Air-Stable Room-Temperature Mid-Infrared Photodetectors Based on hBN/Black Arsenic Phosphorus/hBN Heterostructures. Nano Letters, 2018, 18, 3172-3179.	9.5	150
114	Controlled synthesis of anisotropic hollow ZnCo <sub>2</sub> O <sub>4</sub> octahedrons for high-performance lithium storage. Energy Storage Materials, 2018, 11, 184-190.	18.4	64
115	Preparation of 2D material dispersions and their applications. Chemical Society Reviews, 2018, 47, 6224-6266.	40.3	497
116	Chirality-Controlled Synthesis and Applications of Single-Wall Carbon Nanotubes. ACS Nano, 2017, 11, 31-53.	15.3	180
117	Two-Dimensional Semiconductors: From Materials Preparation to Electronic Applications. Advanced Electronic Materials, 2017, 3, 1700045.	5.4	104
118	Half-Metallicity in Co-Doped WSe <sub>2</sub> Nanoribbons. ACS Applied Materials & Interfaces, 2017, 9, 38796-38801.	8.3	19
119	Fluorine-free preparation of titanium carbide MXene quantum dots with high near-infrared photothermal performances for cancer therapy. Nanoscale, 2017, 9, 17859-17864.	5.8	322
120	How Nitrogen-Doped Graphene Quantum Dots Catalyze Electroreduction of CO <sub>2</sub> to Hydrocarbons and Oxygenates. ACS Catalysis, 2017, 7, 6245-6250.	11.7	142
121	Twinborn TiO <sub>2</sub> -TiN heterostructures enabling smooth trapping-diffusion-conversion of polysulfides towards ultralong life lithium-sulfur batteries. Energy and Environmental Science, 2017, 10, 1694-1703.	32.2	934
122	High-Performance WSe <sub>2</sub> Field-Effect Transistors via Controlled Formation of In-Plane Heterojunctions. ACS Nano, 2016, 10, 5153-5160.	15.3	138
123	Control of Exciton Valley Coherence in Transition Metal Dichalcogenide Monolayers. Physical Review Letters, 2016, 117, 187401.	8.0	142
124	Synthesis of Graphene Nanoribbons by Ambient-Pressure Chemical Vapor Deposition and Device Integration. Journal of the American Chemical Society, 2016, 138, 15488-15496.	14.6	135
125	A facile and low-cost length sorting of single-wall carbon nanotubes by precipitation and applications for thin-film transistors. Nanoscale, 2016, 8, 3467-3473.	5.8	32
126	Spin and valley dynamics of excitons in transition metal dichalcogenide monolayers. Physica Status Solidi (B): Basic Research, 2015, 252, 2349-2362.	1.6	114



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127	(9,8) Single-Walled Carbon Nanotube Enrichment via Aqueous Two-Phase Separation and Their Thin-Film Transistor Applications. <i>Advanced Electronic Materials</i> , 2015, 1, 1500151.	5.4	26
128	Black Arsenic-Phosphorus: Layered Anisotropic Infrared Semiconductors with Highly Tunable Compositions and Properties. <i>Advanced Materials</i> , 2015, 27, 4423-4429.	24.3	393
129	Chemical Vapor Deposition Growth of Monolayer $WSe_2$ with Tunable Device Characteristics and Growth Mechanism Study. <i>ACS Nano</i> , 2015, 9, 6119-6127.	15.3	362
130	Properties of Tunability and Stored Energy Density in the Ferroelectric Multilayers. <i>Ferroelectrics</i> , 2015, 488, 112-118.	0.6	0
131	Threshold voltage tuning and printed complementary transistors and inverters based on thin films of carbon nanotubes and indium zinc oxide. <i>Nano Research</i> , 2015, 8, 1159-1168.	10.6	23
132	Step-Edge-Guided Nucleation and Growth of Aligned $WSe_2$ on Sapphire <i>via</i> a Layer-over-Layer Growth Mode. <i>ACS Nano</i> , 2015, 9, 8368-8375.	15.3	180
133	Reversible Semiconducting-to-Metallic Phase Transition in Chemical Vapor Deposition Grown Monolayer $WSe_2$ and Applications for Devices. <i>ACS Nano</i> , 2015, 9, 7383-7391.	15.3	173
134	Black Phosphorus Gas Sensors. <i>ACS Nano</i> , 2015, 9, 5618-5624.	15.3	630
135	Vapor-Phase Transport Deposition, Characterization, and Applications of Large Nanographenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 4453-4459.	14.6	15
136	Re-growth of single-walled carbon nanotube by hot-wall and cold-wall chemical vapor deposition. <i>Carbon</i> , 2015, 95, 497-502.	10.7	15
137	Nearly Exclusive Growth of Small Diameter Semiconducting Single-Wall Carbon Nanotubes from Organic Chemistry Synthetic End-Cap Molecules. <i>Nano Letters</i> , 2015, 15, 586-595.	9.5	85
138	Enhanced dielectric and ferroelectric properties in the artificial polymer multilayers. <i>Applied Physics Letters</i> , 2014, 104, .	3.2	12
139	Transition of the polarization switching from extrinsic to intrinsic in the ultrathin polyvinylidene fluoride homopolymer films. <i>Applied Physics Letters</i> , 2014, 104, .	3.2	49
140	Screen Printing as a Scalable and Low-Cost Approach for Rigid and Flexible Thin-Film Transistors Using Separated Carbon Nanotubes. <i>ACS Nano</i> , 2014, 8, 12769-12776.	15.3	185
141	Electron spin dephasing and optical pumping of nuclear spins in GaN. <i>Physical Review B</i> , 2014, 90, .	3.3	10
142	Review of carbon nanotube nanoelectronics and macroelectronics. <i>Semiconductor Science and Technology</i> , 2014, 29, 073001.	2.1	108
143	High-Performance Chemical Sensing Using Schottky-Contacted Chemical Vapor Deposition Grown Monolayer $MoS_2$ Transistors. <i>ACS Nano</i> , 2014, 8, 5304-5314.	15.3	636
144	Exciton valley dynamics probed by Kerr rotation in $WSe_2$ monolayers. <i>Physical Review B</i> , 2014, 90, .	3.3	256

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145	Screw-Dislocation-Driven Growth of Two-Dimensional Few-Layer and Pyramid-like WSe <sub>2</sub> by Sulfur-Assisted Chemical Vapor Deposition. ACS Nano, 2014, 8, 11543-11551.	15.3	150
146	Patterning, Characterization, and Chemical Sensing Applications of Graphene Nanoribbon Arrays Down to 5 nm Using Helium Ion Beam Lithography. ACS Nano, 2014, 8, 1538-1546.	15.3	217
147	Carrier and Polarization Dynamics in Monolayer MoS <sub>2</sub> Physical Review Letters, 2014, 112, 047401.	8.0	330
148	Hybrid carbon source for single-walled carbon nanotube synthesis by aerosol CVD method. Carbon, 2014, 78, 130-136.	10.7	64
149	Enhanced ferroelectric and dielectric properties of the P(VDF-TrFE)/Ag nanoparticles composite thin films. Journal of Materials Science: Materials in Electronics, 2014, 25, 3461-3465.	2.2	12
150	Aligned carbon nanotubes: from controlled synthesis to electronic applications. Nanoscale, 2013, 5, 9483.	5.8	50
151	Chirality-Dependent Vapor-Phase Epitaxial Growth and Termination of Single-Wall Carbon Nanotubes. Nano Letters, 2013, 13, 4416-4421.	9.5	78
152	Abnormal polarization switching of relaxor terpolymer films at low temperatures. Applied Physics Letters, 2013, 102, .	3.2	18
153	Comparative study of gel-based separated arc-discharge, HiPCO, and CoMoCAT carbon nanotubes for macroelectronic applications. Nano Research, 2013, 6, 906-920.	10.6	39
154	Temperature dependent electric field control of the electron spin relaxation in (111)A GaAs quantum wells. Applied Physics Letters, 2013, 102, .	3.2	10
155	Chirality-Dependent Reactivity of Individual Single-Walled Carbon Nanotubes. Small, 2013, 9, 1379-1386.	11.2	42
156	Chiral-Selective Growth of Single-Walled Carbon Nanotubes on Lattice-Mismatched Epitaxial Cobalt Nanoparticles. Scientific Reports, 2013, 3, 1460.	3.4	177
157	Strain tuning of optical emission energy and polarization in monolayer and bilayer MoS <sub>2</sub> Physical Review B, 2013, 88, .	3.3	378
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