

Xin-Feng Liu

List of Publications by Year in descending order

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213
papers

16,888
citations

15504

65
h-index

16183

124
g-index

213
all docs

213
docs citations

213
times ranked

19537
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic polaron-related optical properties in Ni(II)-doped CdS nanobelts: Implication for spin nanophotonic devices. Chinese Physics B, 2022, 31, 017802.	1.4	3
2	Few-layered organic single-crystalline heterojunctions for high-performance phototransistors. Nano Research, 2022, 15, 2667-2673.	10.4	12
3	Edge Raman enhancement at layered PbI_2 platelets induced by laser waveguide effect. Nanotechnology, 2022, 33, 035203.	2.6	2
4	Electroluminescent Solar Cells Based on CsPbI_3 Perovskite Quantum Dots. Advanced Functional Materials, 2022, 32, 2108615.	14.9	38
5	Controllable synthesis of high-quality two-dimensional tellurium by a facile chemical vapor transport strategy. Science, 2022, 25, 103594.	4.1	11
6	Persistent radical cation sp^2 carbon-covalent organic framework for photocatalytic oxidative organic transformations. Applied Catalysis B: Environmental, 2022, 306, 121110.	20.2	48
7	Integrating Unexpected High Charge-Carrier Mobility and Low-Threshold Lasing Action in an Organic Semiconductor. Angewandte Chemie, 2022, 134, .	2.0	1
8	Integrating Unexpected High Charge-Carrier Mobility and Low-Threshold Lasing Action in an Organic Semiconductor. Angewandte Chemie - International Edition, 2022, 61, .	13.8	11
9	Phase/size dual controlled 2D semiconductor In_2X_3 (X = S, Se, Te) for saturable absorption modulation. Nano Research, 2022, 15, 5633-5639.	10.4	5
10	An efficient route to prepare suspended monolayer for feasible optical and electronic characterizations of 2D materials. Information Materials, 2022, 4, .	17.3	25
11	Ti_3AlC_2 MAX and Ti_3C_2 MXene Quantum Sheets for Record-High Optical Nonlinearity. Journal of Physical Chemistry Letters, 2022, 13, 3929-3936.	4.6	7
12	Ultrafast Antisolvent Growth of Single-Crystalline CsPbCl_3 Microcavity for Low-Threshold Room Temperature Blue Lasing. ACS Applied Materials & Interfaces, 2022, 14, 21356-21362.	8.0	6
13	Pseudohalide-Assisted Growth of Oriented Large Grains for High-Performance and Stable 2D Perovskite Solar Cells. ACS Energy Letters, 2022, 7, 1842-1849.	17.4	29
14	Engineering Near-Infrared Light Emission in Mechanically Exfoliated InSe Platelets through Hydrostatic Pressure for Multicolor Microlasing. Nano Letters, 2022, 22, 3840-3847.	9.1	11
15	All Optical Switching through Anisotropic Gain of CsPbBr_3 Single Crystal Microplatelet. Nano Letters, 2022, 22, 4049-4057.	9.1	29
16	Enhancing Self-Trapped Exciton Emission via Energy Transfer in Two-Dimensional/Quantum Dot Perovskite Heterostructures. ACS Photonics, 2022, 9, 2008-2014.	6.6	11
17	Tailoring Phase Alignment and Interfaces via Polyelectrolyte Anchoring Enables Large-Area 2D Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	13.8	12
18	W^{5+} Pair Induced LSPR of $\text{W}_{18}\text{O}_{49}$ to Sensitize ZnIn_2S_4 for Full-Spectrum Solar-Driven Photocatalytic Hydrogen Evolution. Advanced Functional Materials, 2022, 32, .	14.9	48

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19	Investigation of charge transfer between donor and acceptor for small-molecule organic solar cells by scanning tunneling microscopy and ultrafast transient absorption spectroscopy. <i>Nano Research</i> , 2022, 15, 8019-8027.	10.4	3
20	Ultrafast Internal Exciton Dissociation through Edge States in MoS ₂ Nanosheets with Diffusion Blocking. <i>Nano Letters</i> , 2022, 22, 5651-5658.	9.1	16
21	Cocrystallization Tailoring Multiple Radiative Decay Pathways for Amplified Spontaneous Emission. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 281-289.	13.8	33
22	Optimizing Surface Chemistry of PbS Colloidal Quantum Dot for Highly Efficient and Stable Solar Cells via Chemical Binding. <i>Advanced Science</i> , 2021, 8, 2003138.	11.2	40
23	Integrated hetero-nanoelectrodes for plasmon-enhanced electrocatalysis of hydrogen evolution. <i>Nano Research</i> , 2021, 14, 1195-1201.	10.4	18
24	Uniform cobalt nanoparticles-decorated biscuit-like VN nanosheets by in situ segregation for Li-ion batteries and oxygen evolution reaction. <i>Applied Surface Science</i> , 2021, 536, 147982.	6.1	23
25	Quantum-sized silicon for enhanced photoluminescence and optical nonlinearity. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7817-7823.	5.9	7
26	Lanthanide-doping enables kinetically controlled growth of deep-blue two-monolayer halide perovskite nanoplatelets. <i>Nanoscale</i> , 2021, 13, 11552-11560.	5.6	16
27	Introducing methoxy or fluorine substitutions on the conjugated side chain to reduce the voltage loss of organic solar cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11163-11171.	5.5	10
28	A general strategy for semiconductor quantum dot production. <i>Nanoscale</i> , 2021, 13, 8004-8011.	5.6	13
29	Anchoring single Pt atoms and black phosphorene dual co-catalysts on CdS nanospheres to boost visible-light photocatalytic H ₂ evolution. <i>Nano Today</i> , 2021, 37, 101080.	11.9	105
30	High Optical Gain of Solution-Processed Mixed-Cation CsPbBr ₃ Thin Films towards Enhanced Amplified Spontaneous Emission. <i>Advanced Functional Materials</i> , 2021, 31, 2102210.	14.9	35
31	Zone-Folded Longitudinal Acoustic Phonons Driving Self-Trapped State Emission in Colloidal CdSe Nanoplatelet Superlattices. <i>Nano Letters</i> , 2021, 21, 4137-4144.	9.1	22
32	Creating Side Transport Pathways in Organic Solar Cells by Introducing Delayed Fluorescence Molecules. <i>Chemistry of Materials</i> , 2021, 33, 4578-4585.	6.7	11
33	Revealing the interrelation between C- and A-exciton dynamics in monolayer WS ₂ via transient absorption spectroscopy. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	10
34	Lead-free perovskites: growth, properties, and applications. <i>Science China Materials</i> , 2021, 64, 2889-2914.	6.3	12
35	Solvent Recrystallization-Enabled Green Amplified Spontaneous Emissions with an Ultra-Low Threshold from Pinhole-Free Perovskite Films. <i>Advanced Functional Materials</i> , 2021, 31, 2106108.	14.9	31
36	Nanoscale heterogeneous distribution of surface energy at interlayers in organic bulk-heterojunction solar cells. <i>Joule</i> , 2021, 5, 3154-3168.	24.0	45

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37	Rational design of colloidal AgGaS ₂ /CdSeS core/shell quantum dots for solar energy conversion and light detection. Nano Energy, 2021, 89, 106392.	16.0	39
38	18.4% efficiency achieved by the cathode interface engineering in non-fullerene polymer solar cells. Nano Today, 2021, 41, 101289.	11.9	47
39	Metal Halide Perovskite/2D Material Heterostructures: Syntheses and Applications. Small Methods, 2021, 5, e2000937.	8.6	24
40	Carrier mobility tuning of MoS ₂ by strain engineering in CVD growth process. Nano Research, 2021, 14, 2314.	10.4	27
41	Inch-Scale Ball-in-Bowl Plasmonic Nanostructure Arrays for Polarization-Independent Second-Harmonic Generation. ACS Nano, 2021, 15, 1291-1300.	14.6	19
42	Individual concave twin ZnO microdisks with optical resonances. Chemical Communications, 2021, 58, 116-119.	4.1	0
43	Enhanced Optical Absorption and Slowed Light of Reduced-Dimensional CsPbBr ₃ Nanowire Crystal by Exciton-Polariton. Nano Letters, 2020, 20, 1023-1032.	9.1	55
44	Efficient Quasi-Two-Dimensional Perovskite Light-Emitting Diodes with Improved Multiple Quantum Well Structure. ACS Applied Materials & Interfaces, 2020, 12, 1721-1727.	8.0	25
45	Trapped Exciton-Polariton Condensate by Spatial Confinement in a Perovskite Microcavity. ACS Photonics, 2020, 7, 327-337.	6.6	36
46	Perovskite quantum dot lasers. Informa-Materially, 2020, 2, 170-183.	17.3	97
47	Unveiling Bandgap Evolution and Carrier Redistribution in Multilayer WSe ₂ : Enhanced Photon Emission via Heat Engineering. Advanced Optical Materials, 2020, 8, 1901226.	7.3	12
48	Relieving the Photosensitivity of Organic Field-Effect Transistors. Advanced Materials, 2020, 32, e1906122.	21.0	61
49	Controlled Production of MoS ₂ Full-Scale Nanosheets and Their Strong Size Effects. Advanced Materials Interfaces, 2020, 7, 2001130.	3.7	17
50	Water as a cocatalyst for photocatalytic H ₂ production from formic acid. Nano Today, 2020, 35, 100968.	11.9	23
51	Tailoring Multi-Walled Carbon Nanotubes into Graphene Quantum Sheets. ACS Applied Materials & Interfaces, 2020, 12, 47784-47791.	8.0	10
52	Large-Scale Thin CsPbBr ₃ Single-Crystal Film Grown on Sapphire via Chemical Vapor Deposition: Toward Laser Array Application. ACS Nano, 2020, 14, 15605-15615.	14.6	112
53	Role of the Exciton-Polariton in a Continuous-Wave Optically Pumped CsPbBr ₃ Perovskite Laser. Nano Letters, 2020, 20, 6636-6643.	9.1	145
54	Graphoepitaxy of Large Scale, Highly Ordered CsPbBr ₃ Nanowire Array on Muscovite Mica (001) Driven by Surface Reconstructed Grooves. Advanced Optical Materials, 2020, 8, 2000743.	7.3	15

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55	Enhanced Trion Emission and Carrier Dynamics in Monolayer WS ₂ Coupled with Plasmonic Nanocavity. <i>Advanced Optical Materials</i> , 2020, 8, 2001147.	7.3	36
56	Overall Regulation of Exciton Dynamics by Defect Engineering in Polymeric Photocatalysts for Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24667-24676.	3.1	10
57	Growth of metal halide perovskite materials. <i>Science China Materials</i> , 2020, 63, 1438-1463.	6.3	31
58	Space-confined and substrate-directed synthesis of transition-metal dichalcogenide nanostructures with tunable dimensionality. <i>Science Bulletin</i> , 2020, 65, 1013-1021.	9.0	25
59	ZnS Nanospheres for Optical Modulator in an Erbium-Doped Fiber Laser. <i>Annalen Der Physik</i> , 2020, 532, 1900454.	2.4	8
60	Heterostructural CsPbX ₃ -PbS (X = Cl, Br, I) Quantum Dots with Tunable Vis-NIR Dual Emission. <i>Journal of the American Chemical Society</i> , 2020, 142, 4464-4471.	13.7	107
61	High-Efficient Charge Generation in Single-Donor-Component-Based p-i-n Structure Organic Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900580.	5.8	14
62	Molecular and Energetic Order Dominate the Photocurrent Generation Process in Organic Solar Cells with Small Energetic Offsets. <i>ACS Energy Letters</i> , 2020, 5, 589-596.	17.4	36
63	Aggregation-Dependent Photoreactive Hemicyanine Assembly as a Photobactericide. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22552-22559.	8.0	13
64	Enhanced type I photoreaction of indocyanine green <i>via</i> electrostatic-force-driven aggregation. <i>Nanoscale</i> , 2020, 12, 9517-9523.	5.6	21
65	Bandgap engineering of few-layered MoS ₂ with low concentrations of S vacancies. <i>RSC Advances</i> , 2020, 10, 15702-15706.	3.6	6
66	Ultra-large local field enhancement effect of isolated thick triangular silver nanoplates on a silicon substrate in the green waveband. <i>Optics Letters</i> , 2020, 45, 2099.	3.3	13
67	Cavity engineering of two-dimensional perovskites and inherent light-matter interaction. <i>Photonics Research</i> , 2020, 8, A72.	7.0	18
68	Perovskite-based lasers. , 2019, , 41-74.		5
69	Lasing from Mechanically Exfoliated 2D Homologous Ruddlesden-Popper Perovskite Engineered by Inorganic Layer Thickness. <i>Advanced Materials</i> , 2019, 31, e1903030.	21.0	128
70	SnSe ₂ Nanosheets for Subpicosecond Harmonic Mode-Locked Pulse Generation. <i>Small</i> , 2019, 15, e1902811.	10.0	138
71	Vapor-Phase Incommensurate Heteroepitaxy of Oriented Single-Crystal CsPbBr ₃ on GaN: Toward Integrated Optoelectronic Applications. <i>ACS Nano</i> , 2019, 13, 10085-10094.	14.6	59
72	Room temperature continuous-wave excited biexciton emission in perovskite nanoplatelets via plasmonic nonlinear fano resonance. <i>Communications Physics</i> , 2019, 2, .	5.3	36

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73	High-Quality Hexagonal Nonlayered CdS Nanoplatelets for Low-Threshold Whispering-Gallery-Mode Lasing. <i>Small</i> , 2019, 15, e1901364.	10.0	24
74	Probing Far-Infrared Surface Phonon Polaritons in Semiconductor Nanostructures at Nanoscale. <i>Nano Letters</i> , 2019, 19, 5070-5076.	9.1	16
75	Multiplasmon modes for enhancing the photocatalytic activity of Au/Ag/Cu ₂ O core-shell nanorods. <i>Nanoscale</i> , 2019, 11, 16445-16454.	5.6	40
76	Lateral and Vertical MoSe ₂ -MoS ₂ Heterostructures via Epitaxial Growth: Triggered by High-Temperature Annealing and Precursor Concentration. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5027-5035.	4.6	13
77	Direct Wide Bandgap 2D GeSe ₂ Monolayer toward Anisotropic UV Photodetection. <i>Advanced Optical Materials</i> , 2019, 7, 1900622.	7.3	70
78	Exciton-polaritons in semiconductors. <i>Journal of Semiconductors</i> , 2019, 40, 090401.	3.7	5
79	Individual nanostructure optimization in donor and acceptor phases to achieve efficient quaternary organic solar cells. <i>Nano Energy</i> , 2019, 66, 104176.	16.0	14
80	Crystalline Cooperativity of Donor and Acceptor Segments in Double-Cable Conjugated Polymers toward Efficient Single-Component Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15532-15540.	13.8	53
81	Twisted-Angle-Dependent Optical Behaviors of Intralayer Excitons and Trions in WS ₂ /WSe ₂ Heterostructure. <i>ACS Photonics</i> , 2019, 6, 3082-3091.	6.6	41
82	Locally collective hydrogen bonding isolates lead octahedra for white emission improvement. <i>Nature Communications</i> , 2019, 10, 5190.	12.8	109
83	Anisotropic Growth and Scanning Tunneling Microscopy Identification of Ultrathin Even-Layered PdSe ₂ Ribbons. <i>Small</i> , 2019, 15, e1902789.	10.0	50
84	Magnetism and Optical Anisotropy in van der Waals Antiferromagnetic Insulator CrOCl. <i>ACS Nano</i> , 2019, 13, 11353-11362.	14.6	97
85	Growth of 4-N,N-Dimethylamino-4'-N'-methyl-stilbazolium Tosylate (DAST) Organic Single Crystals Controlled by Oleic Acid. <i>Crystals</i> , 2019, 9, 494.	2.2	4
86	Unveiling lasing mechanism in CsPbBr ₃ microsphere cavities. <i>Nanoscale</i> , 2019, 11, 3145-3153.	5.6	71
87	Controlled synthesis and room-temperature pyroelectricity of CuInP ₂ S ₆ ultrathin flakes. <i>Nano Energy</i> , 2019, 58, 596-603.	16.0	52
88	Perseverance of direct bandgap in multilayer 2D PbI ₂ under an experimental strain up to 7.69%. <i>2D Materials</i> , 2019, 6, 025014.	4.4	20
89	Two-Photon Absorption-Based Upconverted Circularly Polarized Luminescence Generated in Chiral Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3290-3295.	4.6	122
90	Continuous-Wave Pumped Perovskite Lasers. <i>Advanced Optical Materials</i> , 2019, 7, 1900544.	7.3	42

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91	Robust production of 2D quantum sheets from bulk layered materials. <i>Materials Horizons</i> , 2019, 6, 1416-1424.	12.2	28
92	Giant Nonlinear Optical Response in 2D Perovskite Heterostructures. <i>Advanced Optical Materials</i> , 2019, 7, 1900398.	7.3	58
93	Charge-Transfer-Induced Photoluminescence Properties of WSe ₂ Monolayer/Bilayer Homo Junction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20566-20573.	8.0	15
94	Increasing Quantum Efficiency of Polymer Solar Cells with Efficient Exciton Splitting and Long Carrier Lifetime by Molecular Doping at Heterojunctions. <i>ACS Energy Letters</i> , 2019, 4, 1356-1363.	17.4	45
95	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.	4.6	25
96	Ultrafast carrier dynamics in two-dimensional transition metal dichalcogenides. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4304-4319.	5.5	51
97	Engineering fluorescence intensity and electron concentration of monolayer MoS ₂ by forming heterostructures with semiconductor dots. <i>Nanoscale</i> , 2019, 11, 6544-6551.	5.6	14
98	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. <i>Nature Communications</i> , 2019, 10, 1112.	12.8	185
99	Temperature-dependent photoluminescence and lasing properties of CsPbBr ₃ nanowires. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	59
100	Tunable titanium metal-organic frameworks with infinite 1D Ti-O rods for efficient visible-light-driven photocatalytic H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11928-11933.	10.3	192
101	Significant enhancement of responsivity of organic photodetectors upon molecular engineering. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5739-5747.	5.5	28
102	Sulfur vs. tellurium: the heteroatom effects on the nonfullerene acceptors. <i>Science China Chemistry</i> , 2019, 62, 897-903.	8.2	10
103	Slow Cooling of High-Energy C Excitons Is Limited by Intervalley Transfer in Monolayer MoS ₂ . <i>Laser and Photonics Reviews</i> , 2019, 13, 1800270.	8.7	22
104	Lasing from reduced dimensional perovskite microplatelets: Fabry-Pérot or whispering-gallery-mode?. <i>Journal of Chemical Physics</i> , 2019, 151, 211101.	3.0	12
105	Simultaneous Enhancement of Three Parameters of P3HT-Based Organic Solar Cells with One Oxygen Atom. <i>Advanced Energy Materials</i> , 2019, 9, 1803012.	19.5	54
106	Recent Progress of Strong Exciton-Photon Coupling in Lead Halide Perovskites. <i>Advanced Materials</i> , 2019, 31, e1804894.	21.0	60
107	Focus on 2D material nanophotonics. <i>Nanotechnology</i> , 2019, 30, 030201.	2.6	4
108	Efficient Quaternary Organic Solar Cells with Parallel Alloy Morphology. <i>Advanced Functional Materials</i> , 2019, 29, 1806804.	14.9	53

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109	Nanowire-Based Lasers. <i>Nanostructure Science and Technology</i> , 2019, , 367-393.	0.1	1
110	InSe monolayer: synthesis, structure and ultra-high second-harmonic generation. <i>2D Materials</i> , 2018, 5, 025019.	4.4	92
111	Valley Zeeman splitting of monolayer MoS ₂ probed by low-field magnetic circular dichroism spectroscopy at room temperature. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	34
112	Cocrystals Strategy towards Materials for Near-Infrared Photothermal Conversion and Imaging. <i>Angewandte Chemie</i> , 2018, 130, 4027-4031.	2.0	50
113	Efficient ternary non-fullerene polymer solar cells with PCE of 11.92% and FF of 76.5%. <i>Energy and Environmental Science</i> , 2018, 11, 841-849.	30.8	210
114	DNA Origami Directed Assembly of Gold Bowtie Nanoantennas for Single-Molecule Surface-Enhanced Raman Scattering. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2846-2850.	13.8	150
115	Efficient Ternary Polymer Solar Cells with Two Well-Compatible Donors and One Ultranarrow Bandgap Nonfullerene Acceptor. <i>Advanced Energy Materials</i> , 2018, 8, 1702854.	19.5	195
116	Cocrystals Strategy towards Materials for Near-Infrared Photothermal Conversion and Imaging. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3963-3967.	13.8	255
117	Accurate identification of layer number for few-layer WS ₂ and WSe ₂ via spectroscopic study. <i>Nanotechnology</i> , 2018, 29, 124001.	2.6	52
118	Tellurophene-Based Random Copolymers for High Responsivity and Detectivity Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1917-1924.	8.0	23
119	Strong Exciton-Photon Coupling in Hybrid Inorganic-Organic Perovskite Micro/Nanowires. <i>Advanced Optical Materials</i> , 2018, 6, 1701032.	7.3	114
120	Fabry-Pérot Oscillation and Room Temperature Lasing in Perovskite Cube-Corner Pyramid Cavities. <i>Small</i> , 2018, 14, 1703136.	10.0	61
121	Surface Plasmon Enhanced Strong Exciton-Photon Coupling in Hybrid Inorganic-Organic Perovskite Nanowires. <i>Nano Letters</i> , 2018, 18, 3335-3343.	9.1	133
122	A bumpy gold nanostructure exhibiting DNA-engineered stimuli-responsive SERS signals. <i>Nanoscale</i> , 2018, 10, 9455-9459.	5.6	10
123	Ultrasml CoP Nanoparticles as Efficient Cocatalysts for Photocatalytic Formic Acid Dehydrogenation. <i>Joule</i> , 2018, 2, 549-557.	24.0	126
124	Ultrafast Charge Transfer in Perovskite Nanowire/2D Transition Metal Dichalcogenide Heterostructures. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1655-1662.	4.6	75
125	Strong Exciton-Photon Coupling and Lasing Behavior in All-Inorganic CsPbBr ₃ Micro/Nanowire Fabry-Pérot Cavity. <i>ACS Photonics</i> , 2018, 5, 2051-2059.	6.6	145
126	Enhanced performance of perovskite solar cells by ultraviolet-ozone treatment of mesoporous TiO ₂ . <i>Applied Surface Science</i> , 2018, 436, 596-602.	6.1	55

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127	What is the predominant electron transfer process for Au NRs/TiO ₂ nanodumbbell heterostructure under sunlight irradiation?. Applied Catalysis B: Environmental, 2018, 220, 471-476.	20.2	42
128	Research progress of low-dimensional metal halide perovskites for lasing applications. Chinese Physics B, 2018, 27, 114209.	1.4	10
129	Over 13% Efficiency Ternary Nonfullerene Polymer Solar Cells with Tilted Up Absorption Edge by Incorporating a Medium Bandgap Acceptor. Advanced Energy Materials, 2018, 8, 1801968.	19.5	167
130	All-inorganic CsPbBr ₃ Nanowire Based Plasmonic Lasers. Advanced Optical Materials, 2018, 6, 1800674.	7.3	107
131	Morphology-Tailored Halide Perovskite Platelets and Wires: From Synthesis, Properties to Optoelectronic Devices. Advanced Optical Materials, 2018, 6, 1800413.	7.3	34
132	High-temperature driven inter-valley carrier transfer and significant fluorescence enhancement in multilayer WS ₂ . Nanoscale Horizons, 2018, 3, 598-605.	8.0	13
133	Low Threshold Fabry-Pérot Mode Lasing from Lead Iodide Trapezoidal Nanoplatelets. Small, 2018, 14, e1801938.	10.0	17
134	Anchoring black phosphorus quantum dots on molybdenum disulfide nanosheets: a 0D/2D nanohybrid with enhanced visible and NIR light photoactivity. Applied Catalysis B: Environmental, 2018, 238, 444-453.	20.2	68
135	High-Temperature Continuous-Wave Pumped Lasing from Large-Area Monolayer Semiconductors Grown by Chemical Vapor Deposition. ACS Nano, 2018, 12, 9390-9396.	14.6	44
136	Hybrid 0D-2D black phosphorus quantum dots-graphitic carbon nitride nanosheets for efficient hydrogen evolution. Nano Energy, 2018, 50, 552-561.	16.0	148
137	The Auger process in multilayer WSe ₂ crystals. Nanoscale, 2018, 10, 17585-17592.	5.6	20
138	Morphology Engineering in Monolayer MoS ₂ -WS ₂ Lateral Heterostructures. Advanced Functional Materials, 2018, 28, 1801568.	14.9	67
139	Ultrathin CsPbX ₃ Nanowire Arrays with Strong Emission Anisotropy. Advanced Materials, 2018, 30, e1801805.	21.0	135
140	Enhancement of Exciton Emission from Multilayer MoS ₂ at High Temperatures: Intervalley Transfer versus Interlayer Decoupling. Small, 2017, 13, 1700157.	10.0	19
141	Thermal conductivity of suspended single crystal CH ₃ NH ₃ PbI ₃ platelets at room temperature. Nanoscale, 2017, 9, 8281-8287.	5.6	20
142	Investigation of Physical and Electronic Properties of GeSe for Photovoltaic Applications. Advanced Electronic Materials, 2017, 3, 1700141.	5.1	81
143	3R MoS ₂ with Broken Inversion Symmetry: A Promising Ultrathin Nonlinear Optical Device. Advanced Materials, 2017, 29, 1701486.	21.0	197
144	Direct Chemical Vapor Deposition Growth and Band-Gap Characterization of MoS ₂ /h-BN van der Waals Heterostructures on Au Foils. ACS Nano, 2017, 11, 4328-4336.	14.6	87

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145	Large-scale 2D PbI ₂ monolayers: experimental realization and their indirect band-gap related properties. <i>Nanoscale</i> , 2017, 9, 3736-3741.	5.6	98
146	Al ₂ O ₃ Surface Complexation for Photocatalytic Organic Transformations. <i>Journal of the American Chemical Society</i> , 2017, 139, 269-276.	13.7	64
147	The effect of directed photogenerated carrier separation on photocatalytic hydrogen production. <i>Nano Energy</i> , 2017, 41, 488-493.	16.0	51
148	Surface State Mediated Interlayer Excitons in a 2D Nonlayered Layered Semiconductor Heterojunction. <i>Advanced Electronic Materials</i> , 2017, 3, 1700373.	5.1	15
149	Wavelength Tunable Plasmonic Lasers Based on Intrinsic Self-Absorption of Gain Material. <i>ACS Photonics</i> , 2017, 4, 2789-2796.	6.6	30
150	Two-dimensional metallic tantalum disulfide as a hydrogen evolution catalyst. <i>Nature Communications</i> , 2017, 8, 958.	12.8	191
151	Unveiling Structurally Engineered Carrier Dynamics in Hybrid Quasi-Two-Dimensional Perovskite Thin Films toward Controllable Emission. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4431-4438.	4.6	147
152	Tuning Excitonic Properties of Monolayer MoS ₂ with Microsphere Cavity by High-Throughput Chemical Vapor Deposition Method. <i>Small</i> , 2017, 13, 1701694.	10.0	35
153	Ternary small molecule solar cells exhibiting power conversion efficiency of 10.3%. <i>Nano Energy</i> , 2017, 39, 571-581.	16.0	83
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