

Xin-Feng Liu

List of Publications by Year in descending order

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213
papers

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#	ARTICLE	IF	CITATIONS
1	Low-temperature solution-processed wavelength-tunable perovskites for lasing. <i>Nature Materials</i> , 2014, 13, 476-480.	27.5	2,725
2	Room-Temperature Near-Infrared High-Q Perovskite Whispering-Gallery Planar Nanolasers. <i>Nano Letters</i> , 2014, 14, 5995-6001.	9.1	702
3	High-Quality Whispering-Gallery-Mode Lasing from Cesium Lead Halide Perovskite Nanoplatelets. <i>Advanced Functional Materials</i> , 2016, 26, 6238-6245.	14.9	529
4	Vapor Phase Synthesis of Organometal Halide Perovskite Nanowires for Tunable Room-Temperature Nanolasers. <i>Nano Letters</i> , 2015, 15, 4571-4577.	9.1	405
5	Solar-to-fuels conversion over In ₂ O ₃ /g-C ₃ N ₄ hybrid photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 940-946.	20.2	398
6	Synthesis of Organic-Inorganic Lead Halide Perovskite Nanoplatelets: Towards High-Performance Perovskite Solar Cells and Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2014, 2, 838-844.	7.3	363
7	A room temperature low-threshold ultraviolet plasmonic nanolaser. <i>Nature Communications</i> , 2014, 5, 4953.	12.8	278
8	Advances in Small Perovskite-Based Lasers. <i>Small Methods</i> , 2017, 1, 1700163.	8.6	268
9	Cocrystals Strategy towards Materials for Near-Infrared Photothermal Conversion and Imaging. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3963-3967.	13.8	255
10	Solution-Processed Tin-Based Perovskite for Near-Infrared Lasing. <i>Advanced Materials</i> , 2016, 28, 8191-8196.	21.0	222
11	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
12	Superstructures and SERS Properties of Gold Nanocrystals with Different Shapes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1593-1596.	13.8	206
13	3R MoS ₂ with Broken Inversion Symmetry: A Promising Ultrathin Nonlinear Optical Device. <i>Advanced Materials</i> , 2017, 29, 1701486.	21.0	197
14	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
15	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
16	Two-dimensional metallic tantalum disulfide as a hydrogen evolution catalyst. <i>Nature Communications</i> , 2017, 8, 958.	12.8	191
17	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. <i>Nature Communications</i> , 2019, 10, 1112.	12.8	185
18	Ultrafast charge transfer in MoS ₂ /WSe ₂ p-n Heterojunction. <i>2D Materials</i> , 2016, 3, 025020.	4.4	179

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19	Engineering Interfacial Photoinduced Charge Transfer Based on Nanobamboo Array Architecture for Efficient Solar-to-Chemical Energy Conversion. <i>Advanced Materials</i> , 2015, 27, 2207-2214.	21.0	172
20	Reversible Photoswitchable Fluorescence in Thin Films of Inorganic Nanoparticle and Polyoxometalate Assemblies. <i>Journal of the American Chemical Society</i> , 2010, 132, 2886-2888.	13.7	171
21	Over 13% Efficiency Ternary Nonfullerene Polymer Solar Cells with Tilted Up Absorption Edge by Incorporating a Medium Bandgap Acceptor. <i>Advanced Energy Materials</i> , 2018, 8, 1801968.	19.5	167
22	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
23	Hybrid 0D-2D black phosphorus quantum dots-graphitic carbon nitride nanosheets for efficient hydrogen evolution. <i>Nano Energy</i> , 2018, 50, 552-561.	16.0	148
24	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
25	Wavelength Tunable Single Nanowire Lasers Based on Surface Plasmon Polariton Enhanced Burstein-Moss Effect. <i>Nano Letters</i> , 2013, 13, 5336-5343.	9.1	145
26	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
27	Role of the Exciton-Polariton in a Continuous-Wave Optically Pumped CsPbBr ₃ Perovskite Laser. <i>Nano Letters</i> , 2020, 20, 6636-6643.	9.1	145
28	SnSe ₂ Nanosheets for Subpicosecond Harmonic Mode-Locked Pulse Generation. <i>Small</i> , 2019, 15, e1902811.	10.0	138
29	Ultrathin CsPbX ₃ Nanowire Arrays with Strong Emission Anisotropy. <i>Advanced Materials</i> , 2018, 30, e1801805.	21.0	135
30	Enhanced Photocatalytic Hydrogen Production with Synergistic Two-Phase Anatase/Brookite TiO ₂ Nanostructures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14973-14982.	3.1	134
31	Tailoring the Lasing Modes in Semiconductor Nanowire Cavities Using Intrinsic Self-Absorption. <i>Nano Letters</i> , 2013, 13, 1080-1085.	9.1	133
32	Surface Plasmon Enhanced Strong Exciton-Photon Coupling in Hybrid Inorganic-Organic Perovskite Nanowires. <i>Nano Letters</i> , 2018, 18, 3335-3343.	9.1	133
33	Achieving Ultrafast Hole Transfer at the Monolayer MoS ₂ and CH ₃ NH ₃ PbI ₃ Perovskite Interface by Defect Engineering. <i>ACS Nano</i> , 2016, 10, 6383-6391.	14.6	130
34	Lasing from Mechanically Exfoliated 2D Homologous Ruddlesden-Popper Perovskite Engineered by Inorganic Layer Thickness. <i>Advanced Materials</i> , 2019, 31, e1903030.	21.0	128
35	Photon Upconversion in Heterostructured Photoanodes for Enhanced Near-Infrared Light Harvesting. <i>Advanced Materials</i> , 2013, 25, 1603-1607.	21.0	127
36	Ultras-small CoP Nanoparticles as Efficient Cocatalysts for Photocatalytic Formic Acid Dehydrogenation. <i>Joule</i> , 2018, 2, 549-557.	24.0	126

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37	Ultralow-Threshold Two-Photon Pumped Amplified Spontaneous Emission and Lasing from Seeded CdSe/CdS Nanorod Heterostructures. <i>ACS Nano</i> , 2012, 6, 10835-10844.	14.6	124
38	Three-Dimensional CdS-Titanate Composite Nanomaterials for Enhanced Visible-Light-Driven Hydrogen Evolution. <i>Small</i> , 2013, 9, 996-1002.	10.0	124
39	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
40	Periodic Organic-Inorganic Halide Perovskite Microplatelet Arrays on Silicon Substrates for Room-Temperature Lasing. <i>Advanced Science</i> , 2016, 3, 1600137.	11.2	121
41	Whispering Gallery Mode Lasing from Hexagonal Shaped Layered Lead Iodide Crystals. <i>ACS Nano</i> , 2015, 9, 687-695.	14.6	118
42	Strong Exciton-Photon Coupling in Hybrid Inorganic-Organic Perovskite Micro/Nanowires. <i>Advanced Optical Materials</i> , 2018, 6, 1701032.	7.3	114
43	Large-Scale Thin CsPbBr ₃ Single-Crystal Film Grown on Sapphire <i>via</i> Chemical Vapor Deposition: Toward Laser Array Application. <i>ACS Nano</i> , 2020, 14, 15605-15615.	14.6	112
44	Controlled Synthesis of Organic/Inorganic van der Waals Solid for Tunable Light-Matter Interactions. <i>Advanced Materials</i> , 2015, 27, 7800-7808.	21.0	109
45	Locally collective hydrogen bonding isolates lead octahedra for white emission improvement. <i>Nature Communications</i> , 2019, 10, 5190.	12.8	109
46	All-Inorganic CsPbBr ₃ Nanowire Based Plasmonic Lasers. <i>Advanced Optical Materials</i> , 2018, 6, 1800674.	7.3	107
47	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
48	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
49	Artificial photosynthetic hydrogen evolution over g-C ₃ N ₄ nanosheets coupled with cobaloxime. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18363.	2.8	101
50	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
51	Magnetism and Optical Anisotropy in van der Waals Antiferromagnetic Insulator CrOCl. <i>ACS Nano</i> , 2019, 13, 11353-11362.	14.6	97
52	Perovskite quantum dot lasers. <i>Informa-Materially</i> , 2020, 2, 170-183.	17.3	97
53	InSe monolayer: synthesis, structure and ultra-high second-harmonic generation. <i>2D Materials</i> , 2018, 5, 025019.	4.4	92
54	Direct Chemical Vapor Deposition Growth and Band-Gap Characterization of MoS ₂ /h-BN van der Waals Heterostructures on Au Foils. <i>ACS Nano</i> , 2017, 11, 4328-4336.	14.6	87

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55	Ternary small molecule solar cells exhibiting power conversion efficiency of 10.3%. <i>Nano Energy</i> , 2017, 39, 571-581.	16.0	83
56	Investigation of Physical and Electronic Properties of GeSe for Photovoltaic Applications. <i>Advanced Electronic Materials</i> , 2017, 3, 1700141.	5.1	81
57	High-Yield Production of MoS ₂ and WS ₂ Quantum Sheets from Their Bulk Materials. <i>Nano Letters</i> , 2017, 17, 7767-7772.	9.1	77
58	Self-Assembly of Gold Nanorods into Symmetric Superlattices Directed by OH-Terminated Hexa(ethylene glycol) Alkanethiol. <i>Langmuir</i> , 2011, 27, 11394-11400.	3.5	75
59	Energetics and dynamics in organic-inorganic halide perovskite photovoltaics and light emitters. <i>Nanotechnology</i> , 2015, 26, 342001.	2.6	75
60	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
61	Dominant factors limiting the optical gain in layered two-dimensional halide perovskite thin films. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14701-14708.	2.8	73
62	Fluorophore-Doped Core-Multishell Spherical Plasmonic Nanocavities: Resonant Energy Transfer toward a Loss Compensation. <i>ACS Nano</i> , 2012, 6, 6250-6259.	14.6	71
63	Unveiling lasing mechanism in CsPbBr ₃ microsphere cavities. <i>Nanoscale</i> , 2019, 11, 3145-3153.	5.6	71
64	Direct Wide Bandgap 2D GeSe ₂ Monolayer toward Anisotropic UV Photodetection. <i>Advanced Optical Materials</i> , 2019, 7, 1900622.	7.3	70
65	Composition-Tunable Vertically Aligned CdS _x Se _{1-x} Nanowire Arrays via van der Waals Epitaxy: Investigation of Optical Properties and Photocatalytic Behavior. <i>Advanced Materials</i> , 2012, 24, 4151-4156.	21.0	69
66	Anchoring black phosphorus quantum dots on molybdenum disulfide nanosheets: a 0D/2D nanohybrid with enhanced visible and NIR light photoactivity. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 444-453.	20.2	68
67	Morphology Engineering in Monolayer MoS ₂ -WS ₂ Lateral Heterostructures. <i>Advanced Functional Materials</i> , 2018, 28, 1801568.	14.9	67
68	Controlled Growth and Reliable Thickness-Dependent Properties of Organic-Inorganic Perovskite Platelet Crystal. <i>Advanced Functional Materials</i> , 2016, 26, 5263-5270.	14.9	64
69	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
70	Fabry-Pérot Oscillation and Room Temperature Lasing in Perovskite Cube-Corner Pyramid Cavities. <i>Small</i> , 2018, 14, 1703136.	10.0	61
71	Relieving the Photosensitivity of Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2020, 32, e1906122.	21.0	61
72	Recent Progress of Strong Exciton-Photon Coupling in Lead Halide Perovskites. <i>Advanced Materials</i> , 2019, 31, e1804894.	21.0	60

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73	Vapor-Phase Incommensurate Heteroepitaxy of Oriented Single-Crystal CsPbBr ₃ on GaN: Toward Integrated Optoelectronic Applications. ACS Nano, 2019, 13, 10085-10094.	14.6	59
74	Temperature-dependent photoluminescence and lasing properties of CsPbBr ₃ nanowires. Applied Physics Letters, 2019, 114, .	3.3	59
75	Giant Nonlinear Optical Response in 2D Perovskite Heterostructures. Advanced Optical Materials, 2019, 7, 1900398.	7.3	58
76	Enhanced performance of perovskite solar cells by ultraviolet-ozone treatment of mesoporous TiO ₂ . Applied Surface Science, 2018, 436, 596-602.	6.1	55
77	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
78	Stepwise Self-Assembly of P3HT/CdSe Hybrid Nanowires with Enhanced Photoconductivity. Macromolecular Rapid Communications, 2009, 30, 1419-1423.	3.9	54
79	Simultaneous Enhancement of Three Parameters of P3HT-Based Organic Solar Cells with One Oxygen Atom. Advanced Energy Materials, 2019, 9, 1803012.	19.5	54
80	Crystalline Cooperativity of Donor and Acceptor Segments in Double-Cable Conjugated Polymers toward Efficient Single-Component Organic Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 15532-15540.	13.8	53
81	Efficient Quaternary Organic Solar Cells with Parallel-Alloy Morphology. Advanced Functional Materials, 2019, 29, 1806804.	14.9	53
82	Size-Dependent Exciton Recombination Dynamics in Single CdS Nanowires beyond the Quantum Confinement Regime. Journal of Physical Chemistry C, 2013, 117, 10716-10722.	3.1	52
83	Accurate identification of layer number for few-layer WS ₂ and WSe ₂ via spectroscopic study. Nanotechnology, 2018, 29, 124001.	2.6	52
84	Controlled synthesis and room-temperature pyroelectricity of CuInP ₂ S ₆ ultrathin flakes. Nano Energy, 2019, 58, 596-603.	16.0	52
85	The effect of directed photogenerated carrier separation on photocatalytic hydrogen production. Nano Energy, 2017, 41, 488-493.	16.0	51
86	Ultrafast carrier dynamics in two-dimensional transition metal dichalcogenides. Journal of Materials Chemistry C, 2019, 7, 4304-4319.	5.5	51
87	Cocrystals Strategy towards Materials for Near-Infrared Photothermal Conversion and Imaging. Angewandte Chemie, 2018, 130, 4027-4031.	2.0	50
88	Anisotropic Growth and Scanning Tunneling Microscopy Identification of Ultrathin Even-Layered PdSe ₂ Ribbons. Small, 2019, 15, e1902789.	10.0	50
89	Persistent radical cation sp ² carbon-covalent organic framework for photocatalytic oxidative organic transformations. Applied Catalysis B: Environmental, 2022, 306, 121110.	20.2	48
90	W ⁵⁺ -W ⁵⁺ Pair Induced LSPR of W ₁₈ O ₄₉ to Sensitize ZnIn ₂ S ₄ for Full-Spectrum Solar-Light-Driven Photocatalytic Hydrogen Evolution. Advanced Functional Materials, 2022, 32, .	14.9	48

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91	18.4% efficiency achieved by the cathode interface engineering in non-fullerene polymer solar cells. Nano Today, 2021, 41, 101289.	11.9	47
92	Efficiency Enhancement in Bulk-Heterojunction Solar Cells Integrated with Large-Area Ag Nanotriangle Arrays. Journal of Physical Chemistry C, 2012, 116, 14820-14825.	3.1	46
93	Increasing Quantum Efficiency of Polymer Solar Cells with Efficient Exciton Splitting and Long Carrier Lifetime by Molecular Doping at Heterojunctions. ACS Energy Letters, 2019, 4, 1356-1363.	17.4	45
94	Nanoscale heterogeneous distribution of surface energy at interlayers in organic bulk-heterojunction solar cells. Joule, 2021, 5, 3154-3168.	24.0	45
95	High Performing Ternary Solar Cells through Förster Resonance Energy Transfer between Nonfullerene Acceptors. ACS Applied Materials & Interfaces, 2017, 9, 26928-26936.	8.0	44
96	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
97	Highly Enhanced Exciton Recombination Rate by Strong Electron-Phonon Coupling in Single ZnTe Nanobelt. Nano Letters, 2012, 12, 6420-6427.	9.1	43
98	Cooperative Enhancement of Second-Harmonic Generation from a Single CdS Nanobelt-Hybrid Plasmonic Structure. ACS Nano, 2015, 9, 5018-5026.	14.6	43
99	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
100	Continuous-Wave Pumped Perovskite Lasers. Advanced Optical Materials, 2019, 7, 1900544.	7.3	42
101	Synthesis of fluorescent phenylethanethiolated gold nanoclusters via pseudo-AGR method. Nanoscale, 2015, 7, 16200-16203.	5.6	41
102	Phonon-Assisted Anti-Stokes Lasing in ZnTe Nanoribbons. Advanced Materials, 2016, 28, 276-283.	21.0	41
103	Twisted-Angle-Dependent Optical Behaviors of Intralayer Excitons and Trions in WS ₂ /WSe ₂ Heterostructure. ACS Photonics, 2019, 6, 3082-3091.	6.6	41
104	Multiplasmon modes for enhancing the photocatalytic activity of Au/Ag/Cu ₂ O core-shell nanorods. Nanoscale, 2019, 11, 16445-16454.	5.6	40
105	Optimizing Surface Chemistry of PbS Colloidal Quantum Dot for Highly Efficient and Stable Solar Cells via Chemical Binding. Advanced Science, 2021, 8, 2003138.	11.2	40
106	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
107	Electroluminescent Solar Cells Based on CsPbI ₃ Perovskite Quantum Dots. Advanced Functional Materials, 2022, 32, 2108615.	14.9	38
108	Room temperature continuous-wave excited biexciton emission in perovskite nanoplatelets via plasmonic nonlinear fano resonance. Communications Physics, 2019, 2, .	5.3	36

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109	Trapped Excitonâ€Polariton Condensate by Spatial Confinement in a Perovskite Microcavity. ACS Photonics, 2020, 7, 327-337.	6.6	36
110	Enhanced Trion Emission and Carrier Dynamics in Monolayer WS ₂ Coupled with Plasmonic Nanocavity. Advanced Optical Materials, 2020, 8, 2001147.	7.3	36
111	Molecular and Energetic Order Dominate the Photocurrent Generation Process in Organic Solar Cells with Small Energetic Offsets. ACS Energy Letters, 2020, 5, 589-596.	17.4	36
112	Tuning Excitonic Properties of Monolayer MoS ₂ with Microsphere Cavity by High-Throughput Chemical Vapor Deposition Method. Small, 2017, 13, 1701694.	10.0	35
113	High Optical Gain of Solution-Processed Mixed-Cation CsPbBr ₃ Thin Films towards Enhanced Amplified Spontaneous Emission. Advanced Functional Materials, 2021, 31, 2102210.	14.9	35
114	New Insights into the Correlation between Morphology, Excited State Dynamics, and Device Performance of Small Molecule Organic Solar Cells. Advanced Energy Materials, 2016, 6, 1600961.	19.5	34
115	Valley Zeeman splitting of monolayer MoS ₂ probed by low-field magnetic circular dichroism spectroscopy at room temperature. Applied Physics Letters, 2018, 112, .	3.3	34
116	Morphology-Tailored Halide Perovskite Platelets and Wires: From Synthesis, Properties to Optoelectronic Devices. Advanced Optical Materials, 2018, 6, 1800413.	7.3	34
117	Elucidating the Localized Plasmonic Enhancement Effects from a Single Ag Nanowire in Organic Solar Cells. ACS Nano, 2014, 8, 10101-10110.	14.6	33
118	Cocrystallization Tailoring Multiple Radiative Decay Pathways for Amplified Spontaneous Emission. Angewandte Chemie - International Edition, 2021, 60, 281-289.	13.8	33
119	Experimental and theoretical studies on pyrene-grafted polyoxometalate hybrid. Dalton Transactions, 2012, 41, 12185.	3.3	32
120	Growth of metal halide perovskite materials. Science China Materials, 2020, 63, 1438-1463.	6.3	31
121	Solvent Recrystallization-Enabled Green Amplified Spontaneous Emissions with an Ultra-Low Threshold from Pinhole-Free Perovskite Films. Advanced Functional Materials, 2021, 31, 2106108.	14.9	31
122	Self-Reorganization of CdTe Nanoparticles into Near-Infrared Hg _{1-x} Cd _x Te Nanowire Networks. Chemistry of Materials, 2009, 21, 3177-3182.	6.7	30
123	Wavelength Tunable Plasmonic Lasers Based on Intrinsic Self-Absorption of Gain Material. ACS Photonics, 2017, 4, 2789-2796.	6.6	30
124	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
125	All Optical Switching through Anisotropic Gain of CsPbBr ₃ Single Crystal Microplatelet. Nano Letters, 2022, 22, 4049-4057.	9.1	29
126	Robust production of 2D quantum sheets from bulk layered materials. Materials Horizons, 2019, 6, 1416-1424.	12.2	28

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127	Significant enhancement of responsivity of organic photodetectors upon molecular engineering. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5739-5747.	5.5	28
128	Carrier mobility tuning of MoS ₂ by strain engineering in CVD growth process. <i>Nano Research</i> , 2021, 14, 2314.	10.4	27
129	Optical Spectroscopy Investigation of the Structural and Electrical Evolution of Controllably Oxidized Graphene by a Solution Method. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10702-10707.	3.1	25
130	Nonlinear optical response of Au nanorods for broadband pulse modulation in bulk visible lasers. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	25
131	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
132	Efficient Quasi-Two-Dimensional Perovskite Light-Emitting Diodes with Improved Multiple Quantum Well Structure. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1721-1727.	8.0	25
133	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
134	An efficient route to prepare suspended monolayer for feasible optical and electronic characterizations of 2D materials. <i>Information Materials</i> , 2022, 4, .	17.3	25
135	High-Quality Hexagonal Nonlayered CdS Nanoplatelets for Low-Threshold Whispering-Gallery-Mode Lasing. <i>Small</i> , 2019, 15, e1901364.	10.0	24
136	Metal Halide Perovskite/2D Material Heterostructures: Syntheses and Applications. <i>Small Methods</i> , 2021, 5, e2000937.	8.6	24
137	Controlled Gas Molecules Doping of Monolayer MoS ₂ via Atomic-Layer-Deposited Al ₂ O ₃ Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27402-27408.	8.0	23
138	Tellurophene-Based Random Copolymers for High Responsivity and Detectivity Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1917-1924.	8.0	23
139	Water as a cocatalyst for photocatalytic H ₂ production from formic acid. <i>Nano Today</i> , 2020, 35, 100968.	11.9	23
140	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
141	Resonant Aluminum Nanodisk Array for Enhanced Tunable Broadband Light Trapping in Ultrathin Bulk Heterojunction Organic Photovoltaic Devices. <i>Plasmonics</i> , 2012, 7, 677-684.	3.4	22
142	Ultrafast Exciton Dynamics and Two-Photon Pumped Lasing from ZnSe Nanowires. <i>Advanced Optical Materials</i> , 2013, 1, 319-326.	7.3	22
143	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
144	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

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145	Enhanced type I photoreaction of indocyanine green <i>via</i> electrostatic-force-driven aggregation. <i>Nanoscale</i> , 2020, 12, 9517-9523.	5.6	21
146	Thermal conductivity of suspended single crystal $\text{CH}_3\text{NH}_3\text{PbI}_3$ platelets at room temperature. <i>Nanoscale</i> , 2017, 9, 8281-8287.	5.6	20
147	The Auger process in multilayer WSe_2 crystals. <i>Nanoscale</i> , 2018, 10, 17585-17592.	5.6	20
148	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
149	Enhancement of Exciton Emission from Multilayer MoS_2 at High Temperatures: Intervalley Transfer versus Interlayer Decoupling. <i>Small</i> , 2017, 13, 1700157.	10.0	19
150	Inch-Scale Ball-in-Bowl Plasmonic Nanostructure Arrays for Polarization-Independent Second-Harmonic Generation. <i>ACS Nano</i> , 2021, 15, 1291-1300.	14.6	19
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