

Guichuan Xing

List of Publications by Year in descending order

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times ranked

19916
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Passivation Toward Efficient and Stable Perovskite Solar Cells. Energy and Environmental Materials, 2023, 6, .	12.8	46
2	Ecofriendly Hydroxyalkyl Cellulose Additives for Efficient and Stable MAPbI_3 -Based Inverted Perovskite Solar Cells. Energy and Environmental Materials, 2023, 6, .	12.8	6
3	Overcoming the Limitation of $\text{Cs}_2\text{AgBiBr}_6$ Double Perovskite Solar Cells Through Using Mesoporous TiO_2 Electron Extraction Layer. Energy and Environmental Materials, 2022, 5, 1317-1322.	12.8	17
4	Recent Advances in Blue Perovskite Quantum Dots for Light-Emitting Diodes. Small, 2022, 18, e2103527.	10.0	43
5	Recent Progress in Perovskite-Based Reversible Photon-Electricity Conversion Devices. Advanced Functional Materials, 2022, 32, 2108926.	14.9	18
6	Plasmonic Nanohole Arrays with Enhanced Visible Light Photoelectrocatalytic Activity. ACS Photonics, 2022, 9, 652-663.	6.6	11
7	Stable Metal-Halide Perovskite Colloids in Protic Ionic Liquid. CCS Chemistry, 2022, 4, 3264-3274.	7.8	13
8	Interfacial Engineering of PTAA/Perovskites for Improved Crystallinity and Hole Extraction in Inverted Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 3284-3292.	8.0	36
9	Surface Passivation Using 2D Perovskites toward Efficient and Stable Perovskite Solar Cells. Advanced Materials, 2022, 34, e2105635.	21.0	221
10	Emission-Color-Tunable Pb-Sn Alloyed Single Crystals with High Luminescent Efficiency and Stability. Advanced Optical Materials, 2022, 10, .	7.3	15
11	Lithium-rich sulfide/selenide cathodes for next-generation lithium-ion batteries: challenges and perspectives. Chemical Communications, 2022, 58, 3591-3600.	4.1	12
12	In Operando Neutron Scattering Multiple-Scale Studies of Lithium-Ion Batteries. Small, 2022, 18, e2107491.	10.0	11
13	Synergistic Effect of Halogen Ions and Shelling Temperature on Anion Exchange Induced Interfacial Restructuring for Highly Efficient Blue Emissive InP/ZnS Quantum Dots. Small, 2022, 18, e2108120.	10.0	23
14	Two-Dimensional Heterostructure of $\text{MoS}_2/\text{BA}_2\text{PbI}_4$ 2D Ruddlesden-Popper Perovskite with an S Scheme Alignment for Solar Cells: A First-Principles Study. ACS Applied Electronic Materials, 2022, 4, 1939-1948.	4.3	11
15	Anion induced bottom surface passivation for high performance perovskite solar cell. Chemical Engineering Journal, 2022, 442, 135895.	12.7	5
16	ZIF-67 Derivative Decorated MXene for a Highly Integrated Flexible Self-Powered Photodetector. ACS Applied Materials & Interfaces, 2022, 14, 19725-19735.	8.0	14
17	A visible to near-infrared nanocrystalline organic photodetector with ultrafast photoresponse. Journal of Materials Chemistry C, 2022, 10, 9391-9400.	5.5	8
18	One step synthesis of efficient red emissive carbon dots and their bovine serum albumin composites with enhanced multi-photon fluorescence for in vivo bioimaging. Light: Science and Applications, 2022, 11, 113.	16.6	46

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19	Bridging the Interfacial Contact for Improved Stability and Efficiency of Inverted Perovskite Solar Cells. <i>Small</i> , 2022, 18, e2201694.	10.0	16
20	Manipulation of Band Alignment in Two-Dimensional Vertical WSe ₂ /BA ₂ PbI ₄ Ruddlesden-Popper Perovskite Heterojunctions via Defect Engineering. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4579-4588.	4.6	10
21	Nonlinear Infrared Photodetection Based on Strong Nondegenerate Two-Photon Absorption of Perovskite Single Crystal. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	1
22	Toward Strong Near-Infrared Absorption/Emission from Carbon Dots in Aqueous Media through Solvothermal Fusion of Large Conjugated Perylene Derivatives with Post-Surface Engineering. <i>Advanced Science</i> , 2022, 9, .	11.2	48
23	Self-Assembly Behavior of Metal Halide Perovskite Nanocrystals. <i>Chinese Journal of Chemistry</i> , 2022, 40, 2239-2248.	4.9	6
24	Broadband white-light emission from a novel two-dimensional metal halide assembled by PbCl ₂ hendecahedrons. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9465-9470.	5.5	10
25	Exploring novel ligands with strong electron delocalization for high-performance blue CsPbBr ₃ perovskite nanoplatelets. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9834-9840.	5.5	12
26	Micro- and Nanostructured Lead Halide Perovskites: From Materials to Integrations and Devices. <i>Advanced Materials</i> , 2021, 33, e2000306.	21.0	75
27	Probing the dynamic structural changes of DNA using ultrafast laser pulse in graphene-based optofluidic device. <i>Information Materials</i> , 2021, 3, 316-326.	17.3	4
28	Two-dimensional Ruddlesden-Popper layered perovskite solar cells based on phase-pure thin films. <i>Nature Energy</i> , 2021, 6, 38-45.	39.5	342
29	Efficient and Stable Perovskite Solar Cells by Fluorinated Ionic Liquid-Induced Component Interaction. <i>Solar Rrl</i> , 2021, 5, .	5.8	24
30	Deep surface passivation for efficient and hydrophobic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2919-2927.	10.3	74
31	Spacer Cation Tuning Enables Vertically Oriented and Graded Quasi-2D Perovskites for Efficient Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2008404.	14.9	94
32	Design, synthesis and application in biological imaging of a novel red fluorescent dye based on a rhodanine derivative. <i>RSC Advances</i> , 2021, 11, 160-163.	3.6	7
33	Vapor incubation of FASnI ₃ films for efficient and stable lead-free inverted perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16943-16951.	10.3	20
34	Surface passivation of organometal halide perovskites by atomic layer deposition: an investigation of the mechanism of efficient inverted planar solar cells. <i>Nanoscale Advances</i> , 2021, 3, 2305-2315.	4.6	25
35	A graphene-Mo ₂ C heterostructure for a highly responsive broadband photodetector. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23024-23031.	2.8	1
36	Direct coherent multi-ink printing of fabric supercapacitors. <i>Science Advances</i> , 2021, 7, .	10.3	95

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37	Synergistic Interplay between Asymmetric Backbone Conformation, Molecular Aggregation, and Charge-Carrier Dynamics in Fused-Ring Electron Acceptor-Based Bulk Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2961-2970.	8.0	12
38	Multi-Phase Heterostructure of CoNiP/Co _x P for Enhanced Hydrogen Evolution Under Alkaline and Seawater Conditions by Promoting H ₂ O Dissociation. <i>Small</i> , 2021, 17, e2007557.	10.0	83
39	Stabilizing black-phase formamidinium perovskite formation at room temperature and high humidity. <i>Science</i> , 2021, 371, 1359-1364.	12.6	508
40	Effect of Zinc-Doping on the Reduction of the Hot-Carrier Cooling Rate in Halide Perovskites. <i>Angewandte Chemie</i> , 2021, 133, 11052-11058.	2.0	2
41	Effect of Zinc-Doping on the Reduction of the Hot-Carrier Cooling Rate in Halide Perovskites. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10957-10963.	13.8	50
42	Bandgap engineering of layered mono-chalcogenides via pressure. <i>Journal of Applied Physics</i> , 2021, 129, 155703.	2.5	2
43	Phase Tailoring of Ruddlesden-Popper Perovskite at Fixed Large Spacer Cation Ratio. <i>Small</i> , 2021, 17, e2100560.	10.0	10
44	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
45	Enhanced Electrochemical Stability by Alkyldiammonium in Dion-Jacobson Perovskite toward Ultrastable Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2021, 9, 2100243.	7.3	21
46	Two-Dimensional Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} Nanosheets for Ultrafast Photonics and Optoelectronics. <i>ACS Nano</i> , 2021, 15, 8919-8929.	14.6	20
47	Advances of Nonlinear Photonics in Low-Dimensional Halide Perovskites. <i>Small</i> , 2021, 17, e2100809.	10.0	39
48	All-Inorganic Perovskite Nanorod Arrays with Spatially Randomly Distributed Lasing Modes for All-Photonic Cryptographic Primitives. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30891-30901.	8.0	6
49	Doping Electron Transporting Layer: An Effective Method to Enhance <i>J_{SC}</i> of All-Inorganic Perovskite Solar Cells. <i>Energy and Environmental Materials</i> , 2021, 4, 500-501.	12.8	17
50	Development of Perovskite Oxide-Based Electrocatalysts for Oxygen Evolution Reaction. <i>Small</i> , 2021, 17, e2101605.	10.0	71
51	Robust Ultralong Lead Halide Perovskite Microwire Lasers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38458-38466.	8.0	14
52	Promoting Energy Transfer via Manipulation of Crystallization Kinetics of Quasi-2D Perovskites for Efficient Green Light-Emitting Diodes. <i>Advanced Materials</i> , 2021, 33, e2102246.	21.0	88
53	Stability, encapsulation and large-area fabrication of organic photovoltaics. <i>Science China Chemistry</i> , 2021, 64, 1441-1459.	8.2	11
54	Antisolvent Engineering to Optimize Grain Crystallinity and Hole-Blocking Capability of Perovskite Films for High-Performance Photovoltaics. <i>Advanced Materials</i> , 2021, 33, e2102816.	21.0	61

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55	Oxygen Defect Engineering of MnO_2 Catalysts via Phase Transformation for Selective Catalytic Reduction of NO. <i>Small</i> , 2021, 17, e2102408.	10.0	38
56	Elucidating the Role of Substrates on Domain Distribution of Quasi-2D Perovskites for Blue Light-Emitting Diodes. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4056-4065.	4.3	3
57	Suppressed Phase Segregation in High-Humidity-Processed Dion-Jacobson Perovskite Solar Cells Toward High Efficiency and Stability. <i>Solar Rrl</i> , 2021, 5, 2100555.	5.8	6
58	2D Hybrid Halide Perovskites: Structure, Properties, and Applications in Solar Cells. <i>Small</i> , 2021, 17, e2103514.	10.0	59
59	Limitations and solutions for achieving high-performance perovskite tandem photovoltaics. <i>Nano Energy</i> , 2021, 88, 106219.	16.0	20
60	Metal Halide Perovskite/2D Material Heterostructures: Syntheses and Applications. <i>Small Methods</i> , 2021, 5, e2000937.	8.6	24
61	Electrochemical energy storage devices working in extreme conditions. <i>Energy and Environmental Science</i> , 2021, 14, 3323-3351.	30.8	140
62	Thioacetamide-ligand-mediated synthesis of CsPbBr_3 homostructured nanocrystals with enhanced stability. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11349-11357.	5.5	31
63	Development of Electrocatalysts for Efficient Nitrogen Reduction Reaction under Ambient Condition. <i>Advanced Functional Materials</i> , 2021, 31, 2008983.	14.9	124
64	Enhanced Near-Infrared Emission from Carbon Dots by Surface Deprotonation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 604-611.	4.6	34
65	Multiexcitonic Emission in Zero-Dimensional $\text{Cs}_2\text{ZrCl}_6:\text{Sb}^{3+}$ Perovskite Crystals. <i>Journal of the American Chemical Society</i> , 2021, 143, 17599-17606.	13.7	131
66	Development of Perovskite Oxide-Based Electrocatalysts for Oxygen Evolution Reaction (Small) Tj ETQqO O 0 rgBT /Overlock 10 Tf 50	10.0	10
67	Special Issue on the 40th Anniversary of University of Macau. <i>Small</i> , 2021, 17, e2105656.	10.0	0
68	Suppressing the defects in cesium-based perovskites <i>via</i> polymeric interlayer assisted crystallization control. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26149-26158.	10.3	6
69	In Situ Interfacial Passivation of Sn-Based Perovskite Films with a Bi-functional Ionic Salt for Enhanced Photovoltaic Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, , .	8.0	6
70	Crystal face dependent charge carrier extraction in TiO_2 /perovskite heterojunctions. <i>Nano Energy</i> , 2020, 67, 104227.	16.0	19
71	Constructing Mechanochemical Durable and Self-Healing Superhydrophobic Surfaces. <i>ACS Omega</i> , 2020, 5, 986-994.	3.5	79
72	Emerging polyanionic and organic compounds for high energy density, non-aqueous potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16061-16080.	10.3	37

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73	Water, a Green Solvent for Fabrication of High-Quality CsPbBr ₃ Films for Efficient Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 5925-5931.	8.0	67
74	Plasmonically Enhanced Upconversion Luminescence via Holographically Formed Silver Nanogratings. ACS Applied Materials & Interfaces, 2020, 12, 1292-1298.	8.0	20
75	Ultrasensitive Organic-Modulated CsPbBr ₃ Quantum Dot Photodetectors via Fast Interfacial Charge Transfer. Advanced Materials Interfaces, 2020, 7, 1901741.	3.7	20
76	Size-Controlled Patterning of Single-Crystalline Perovskite Arrays toward a Tunable High-Performance Microlaser. ACS Applied Materials & Interfaces, 2020, 12, 2662-2670.	8.0	24
77	Design of highly efficient deep-blue organic afterglow through guest sensitization and matrices rigidification. Nature Communications, 2020, 11, 4802.	12.8	148
78	Designing Advanced Vanadium-Based Materials to Achieve Electrochemically Active Multielectron Reactions in Sodium/Potassium-Ion Batteries. Advanced Energy Materials, 2020, 10, 2002244.	19.5	79
79	Surface Reconstruction and Phase Transition on Vanadium-Cobalt-Iron Trimetal Nitrides to Form Active Oxyhydroxide for Enhanced Electrocatalytic Water Oxidation. Advanced Energy Materials, 2020, 10, 2002464.	19.5	155
80	Hydrothermal deposition of antimony selenosulfide thin films enables solar cells with 10% efficiency. Nature Energy, 2020, 5, 587-595.	39.5	338
81	Ultrashort laser pulse doubling by metal-halide perovskite multiple quantum wells. Nature Communications, 2020, 11, 3361.	12.8	57
82	Oxygen Evolution Reaction: Surface Reconstruction and Phase Transition on Vanadium-Cobalt-Iron Trimetal Nitrides to Form Active Oxyhydroxide for Enhanced Electrocatalytic Water Oxidation (Adv.) Tj ETQq0 0 0 rg05/Overlock 10 Tf 5	19.5	155
83	Role of the Exciton-Polariton in a Continuous-Wave Optically Pumped CsPbBr ₃ Perovskite Laser. Nano Letters, 2020, 20, 6636-6643.	9.1	145
84	Suppressing Strong Exciton-Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. Angewandte Chemie, 2020, 132, 22340-22346.	2.0	2
85	[(C 8 H 17) 4 N] 4 [SiW 12 O 40] (TASiWâ€‘12)â€‘Modified SnO 2 Electron Transport Layer for Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000406.	5.8	10
86	Suppressing Strong Exciton-Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. Angewandte Chemie - International Edition, 2020, 59, 22156-22162.	13.8	24
87	Rearranging Low-Dimensional Phase Distribution of Quasi-2D Perovskites for Efficient Sky-Blue Perovskite Light-Emitting Diodes. ACS Nano, 2020, 14, 11420-11430.	14.6	206
88	Ultrafast carrier relaxation dynamics of photoexcited GaAs and GaAs/AlGaAs nanowire array. Physical Chemistry Chemical Physics, 2020, 22, 25819-25826.	2.8	6
89	Stable Whispering Gallery Mode Lasing from Solution-Processed Formamidinium Lead Bromide Perovskite Microdisks. Advanced Optical Materials, 2020, 8, 2000030.	7.3	32
90	Facile deposition of high-quality Cs ₂ AgBiBr ₆ films for efficient double perovskite solar cells. Science China Materials, 2020, 63, 1518-1525.	6.3	41

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91	Effective Surface Ligand-Concentration Tuning of Deep-Blue Luminescent FAPbBr ₃ Nanoplatelets with Enhanced Stability and Charge Transport. ACS Applied Materials & Interfaces, 2020, 12, 31863-31874.	8.0	37
92	Building High Power Density of Sodium-Ion Batteries: Importance of Multidimensional Diffusion Pathways in Cathode Materials. Frontiers in Chemistry, 2020, 8, 152.	3.6	26
93	Photoluminescence Emission during Photoreduction of Graphene Oxide Sheets as Investigated with Single-Molecule Microscopy. Journal of Physical Chemistry C, 2020, 124, 7914-7921.	3.1	15
94	In Situ Growth of MAPbBr ₃ Nanocrystals on Few-Layer MXene Nanosheets with Efficient Energy Transfer. Small, 2020, 16, e1905896.	10.0	38
95	Tailoring the Surface Morphology and Phase Distribution for Efficient Perovskite Electroluminescence. Journal of Physical Chemistry Letters, 2020, 11, 5877-5882.	4.6	17
96	Printable Ink Design towards Customizable Miniaturized Energy Storage Devices. , 2020, 2, 1041-1056.		45
97	Highly stable and repeatable femtosecond soliton pulse generation from saturable absorbers based on two-dimensional Cu ₃ xP nanocrystals. Frontiers of Optoelectronics, 2020, 13, 139-148.	3.7	13
98	Low-Dimensional Dion-Jacobson Phase Lead-Free Perovskites for High-Performance Photovoltaics with Improved Stability. Angewandte Chemie - International Edition, 2020, 59, 6909-6914.	13.8	123
99	Low-Dimensional Dion-Jacobson Phase Lead-Free Perovskites for High-Performance Photovoltaics with Improved Stability. Angewandte Chemie, 2020, 132, 6976-6981.	2.0	26
100	Oxygen Evolution Reaction Kinetics: Reducing Oxygen Evolution Reaction Overpotential in Cobalt-Based Electrocatalysts via Optimizing the "Microparticles-in-Spider Web" Electrode Configurations (Small 8/2020). Small, 2020, 16, 2070041.	10.0	1
101	Controlling the film structure by regulating 2D Ruddlesden-Popper perovskite formation enthalpy for efficient and stable tri-cation perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 5874-5881.	10.3	23
102	Reducing Oxygen Evolution Reaction Overpotential in Cobalt-Based Electrocatalysts via Optimizing the "Microparticles-in-Spider Web" Electrode Configurations. Small, 2020, 16, e1907029.	10.0	34
103	All Green Solvents for Fabrication of CsPbBr ₃ Films for Efficient Solar Cells Guided by the Hansen Solubility Theory. Solar Rrl, 2020, 4, 2000008.	5.8	33
104	Light-induced phase transition and photochromism in all-inorganic two-dimensional Cs ₂ PbI ₂ Cl ₂ perovskite. Science China Materials, 2020, 63, 1510-1517.	6.3	14
105	Morphology Control of Doped Spiro-MeOTAD Films for Air Stable Perovskite Solar Cells. Small, 2020, 16, e1907513.	10.0	16
106	Towards Simplifying the Device Structure of High-Performance Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2000863.	14.9	67
107	Origin of High Efficiency and Long-Term Stability in Ionic Liquid Perovskite Photovoltaic. Research, 2020, 2020, 2616345.	5.7	59
108	Near-Infrared-Excitable Organic Ultralong Phosphorescence through Multiphoton Absorption. Research, 2020, 2020, 2904928.	5.7	10

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109	Unconventional solution-phase epitaxial growth of organic-inorganic hybrid perovskite nanocrystals on metal sulfide nanosheets. <i>Science China Materials</i> , 2019, 62, 43-53.	6.3	20
110	Lasing from Mechanically Exfoliated 2D Homologous Ruddlesden-Popper Perovskite Engineered by Inorganic Layer Thickness. <i>Advanced Materials</i> , 2019, 31, e1903030.	21.0	128
111	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
112	Room temperature continuous-wave excited biexciton emission in perovskite nanoplatelets via plasmonic nonlinear fano resonance. <i>Communications Physics</i> , 2019, 2, .	5.3	36
113	Low-Dimensional Perovskites with Diammonium and Monoammonium Alternant Cations for High-Performance Photovoltaics. <i>Advanced Materials</i> , 2019, 31, e1901966.	21.0	96
114	Solution-Processed Perovskite Microdisk for Coherent Light Emission. <i>Advanced Optical Materials</i> , 2019, 7, 1900678.	7.3	12
115	Thermally Activated Upconversion Near-Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation. <i>Small</i> , 2019, 15, e1905050.	10.0	70
116	Effects of Material Dimensionality on the Optical Properties of CsPbBr ₃ Nanomaterials. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28893-28897.	3.1	8
117	Perovskite Solar Cells: Low-Dimensional Perovskites with Diammonium and Monoammonium Alternant Cations for High-Performance Photovoltaics (<i>Adv. Mater.</i> 35/2019). <i>Advanced Materials</i> , 2019, 31, 1970252.	21.0	6
118	Medium-Bandgap Conjugated Polymer Donors for Organic Photovoltaics. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900074.	3.9	30
119	Realization of the Photostable Intrinsic Core Emission from Carbon Dots through Surface Deoxidation by Ultraviolet Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3094-3100.	4.6	50
120	Pure Bromide-Based Perovskite Nanoplatelets for Blue Light-Emitting Diodes. <i>Small Methods</i> , 2019, 3, 1900196.	8.6	34
121	Recent Progress in Metal Halide Perovskite Micro- and Nanolasers. <i>Advanced Optical Materials</i> , 2019, 7, 1900080.	7.3	95
122	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. <i>Nature Communications</i> , 2019, 10, 1112.	12.8	185
123	Stable, Efficient Near-Infrared Light-Emitting Diodes Enabled by $\hat{I}\pm/\hat{I}$ Phase Modulation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2101-2107.	4.6	14
124	Room-Temperature Molten Salt for Facile Fabrication of Efficient and Stable Perovskite Solar Cells in Ambient Air. <i>CheM</i> , 2019, 5, 995-1006.	11.7	245
125	Hollow TiO ₂ submicrospheres assembled by tiny nanocrystals as superior anode for lithium ion battery. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23733-23738.	10.3	15
126	Cyano-Substituted Head-to-Head Polythiophenes: Enabling High-Performance n-Type Organic Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10089-10098.	8.0	29

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127	Understanding the Impact of Cu-In-Ga-S Nanoparticles Compactness on Holes Transfer of Perovskite Solar Cells. <i>Nanomaterials</i> , 2019, 9, 286.	4.1	9
128	Charge Carrier Dynamics and Broad Wavelength Tunable Amplified Spontaneous Emission in Zn _x Cd _{1-x} Se Nanowires. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7516-7522.	4.6	5
129	Photoluminescence: Thermally Activated Upconversion Near-Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation (Small 50/2019). <i>Small</i> , 2019, 15, 1970288.	10.0	2
130	All-Inorganic Perovskite Nanocrystals-Based Light Emitting Diodes and Solar Cells. <i>ChemNanoMat</i> , 2019, 5, 266-277.	2.8	18
131	Trap-Filling-Induced Charge Carrier Dynamics in Organic Solar Cells. <i>Advanced Optical Materials</i> , 2018, 6, 1800027.	7.3	10
132	One-Step Inkjet Printed Perovskite in Air for Efficient Light Harvesting. <i>Solar Rrl</i> , 2018, 2, 1700217.	5.8	90
133	Enhanced power conversion efficiency in iridium complex-based terpolymers for polymer solar cells. <i>Npj Flexible Electronics</i> , 2018, 2, .	10.7	84
134	Enhanced Exciton and Photon Confinement in Ruddlesden-Popper Perovskite Microplatelets for Highly Stable Low-Threshold Polarized Lasing. <i>Advanced Materials</i> , 2018, 30, e1707235.	21.0	101
135	Highly Efficient Visible Colloidal Lead-Halide Perovskite Nanocrystal Light-Emitting Diodes. <i>Nano Letters</i> , 2018, 18, 3157-3164.	9.1	199
136	Ruddlesden-Popper Perovskite for Stable Solar Cells. <i>Energy and Environmental Materials</i> , 2018, 1, 221-231.	12.8	85
137	Phase Pure 2D Perovskite for High-Performance 2D-3D Heterostructured Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1805323.	21.0	244
138	Purely Organic Phosphorescence: Resonance-Activated Spin-Flipping for Efficient Organic Ultralong Room-Temperature Phosphorescence (Adv. Mater. 44/2018). <i>Advanced Materials</i> , 2018, 30, 1870335.	21.0	1
139	Resonance-Activated Spin-Flipping for Efficient Organic Ultralong Room-Temperature Phosphorescence. <i>Advanced Materials</i> , 2018, 30, e1803856.	21.0	161
140	Metal halide perovskites: stability and sensing-ability. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10121-10137.	5.5	131
141	Dynamic Ultralong Organic Phosphorescence by Photoactivation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8425-8431.	13.8	241
142	Efficient recycling of trapped energies for dual-emission in Mn-doped perovskite nanocrystals. <i>Nano Energy</i> , 2018, 51, 704-710.	16.0	54
143	Dynamic Ultralong Organic Phosphorescence by Photoactivation. <i>Angewandte Chemie</i> , 2018, 130, 8561-8567.	2.0	47
144	Low Threshold Fabry-Pérot Mode Lasing from Lead Iodide Trapezoidal Nanoplatelets. <i>Small</i> , 2018, 14, e1801938.	10.0	17

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145	Spin control in reduced-dimensional chiral perovskites. <i>Nature Photonics</i> , 2018, 12, 528-533.	31.4	371
146	Transcending the slow bimolecular recombination in lead-halide perovskites for electroluminescence. <i>Nature Communications</i> , 2017, 8, 14558.	12.8	473
147	Giant five-photon absorption from multidimensional core-shell halide perovskite colloidal nanocrystals. <i>Nature Communications</i> , 2017, 8, 15198.	12.8	177
148	Long Minority-Carrier Diffusion Length and Low Surface-Recombination Velocity in Inorganic Lead-Free CsSnI ₃ Perovskite Crystal for Solar Cells. <i>Advanced Functional Materials</i> , 2017, 27, 1604818.	14.9	164
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