Guichuan Xing

List of Publications by Year
in descending order

188	23,177	25034 57	7950 149
papers	citations	h-index	g-index

191	191	191	19916
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Long-Range Balanced Electron- and Hole-Transport Lengths in Organic-Inorganic CH ₃ NH ₃ PbI ₃. Science, 2013, 342, 344-347.	12.6	6,060
2	Low-temperature solution-processed wavelength-tunable perovskites for lasing. Nature Materials, 2014, 13, 476-480.	27.5	2,725
3	Perovskite light-emitting diodes based on solution-processed self-organized multiple quantum wells. Nature Photonics, 2016, 10, 699-704.	31.4	1,535
4	The origin of high efficiency in low-temperature solution-processable bilayer organometal halide hybrid solar cells. Energy and Environmental Science, 2014, 7, 399-407.	30.8	965
5	Stabilizing black-phase formamidinium perovskite formation at room temperature and high humidity. Science, 2021, 371, 1359-1364.	12.6	508
6	Two-Photon-Pumped Perovskite Semiconductor Nanocrystal Lasers. Journal of the American Chemical Society, 2016, 138, 3761-3768.	13.7	496
7	Transcending the slow bimolecular recombination in lead-halide perovskites for electroluminescence. Nature Communications, 2017, 8, 14558.	12.8	473
8	Spin control in reduced-dimensional chiral perovskites. Nature Photonics, 2018, 12, 528-533.	31.4	371
9	Two-dimensional Ruddlesdenâ€“Popper layered perovskite solar cells based on phase-pure thin films. Nature Energy, 2021, 6, 38-45.	39.5	342
10	Hydrothermal deposition of antimony selenosulfide thin films enables solar cells with 10% efficiency. Nature Energy, 2020, 5, 587-595.	39.5	338
11	The Physics of ultrafast saturable absorption in graphene. Optics Express, 2010, 18, 4564.	3.4	304
12	Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmonâ€Induced Electron Transfer Processes. Advanced Functional Materials, 2013, 23, 2932-2940.	14.9	270
13	Room-Temperature Molten Salt for Facile Fabrication of Efficient and Stable Perovskite Solar Cells in Ambient Air. CheM, 2019, 5, 995-1006.	11.7	245
14	Phase Pure 2D Perovskite for Highâ€Performance 2Dâ€“3D Heterostructured Perovskite Solar Cells. Advanced Materials, 2018, 30, e1805323.	21.0	244
15	Dynamic Ultralong Organic Phosphorescence by Photoactivation. Angewandte Chemie - International Edition, 2018, 57, 8425-8431.	13.8	241
16	Solutionâ€Processed Tinâ€Based Perovskite for Nearâ€Infrared Lasing. Advanced Materials, 2016, 28, 8191-8196.	21.0	222
17	Surface Passivation Using 2D Perovskites toward Efficient and Stable Perovskite Solar Cells. Advanced Materials, 2022, 34, e2105635.	21.0	221
18	Charge Accumulation and Hysteresis in Perovskiteâ€Based Solar Cells: An Electroâ€Optical Analysis. Advanced Energy Materials, 2015, 5, 1500829.	19.5	217

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19	A large area (70 cm²) monolithic perovskite solar module with a high efficiency and stability. Energy and Environmental Science, 2016, 9, 3687-3692.	30.8	213
20	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
21	Highly Efficient Visible Colloidal Lead-Halide Perovskite Nanocrystal Light-Emitting Diodes. Nano Letters, 2018, 18, 3157-3164.	9.1	199
22	Interfacial Electron Transfer Barrier at Compact TiO₂/CH₃NH₃PbI₃Heterojunction. Small, 2015, 11, 3606-3613.	10.0	196
23	Impacts of alkaline on the defects property and crystallization kinetics in perovskite solar cells. Nature Communications, 2019, 10, 1112.	12.8	185
24	Giant five-photon absorption from multidimensional core-shell halide perovskite colloidal nanocrystals. Nature Communications, 2017, 8, 15198.	12.8	177
25	Long Minorityâ€Carrier Diffusion Length and Low Surfaceâ€Recombination Velocity in Inorganic Leadâ€Free CsSnI₃ Perovskite Crystal for Solar Cells. Advanced Functional Materials, 2017, 27, 1604818.	14.9	164
26	Resonanceâ€Activated Spinâ€Flipping for Efficient Organic Ultralong Roomâ€Temperature Phosphorescence. Advanced Materials, 2018, 30, e1803856.	21.0	161
27	Spectral Features and Charge Dynamics of Lead Halide Perovskites: Origins and Interpretations. Accounts of Chemical Research, 2016, 49, 294-302.	15.6	159
28	Surface Reconstruction and Phase Transition on Vanadiumâ€“Cobaltâ€“Iron Trimetal Nitrides to Form Active Oxyhydroxide for Enhanced Electrocatalytic Water Oxidation. Advanced Energy Materials, 2020, 10, 2002464.	19.5	155
29	Design of highly efficient deep-blue organic afterglow through guest sensitization and matrices rigidification. Nature Communications, 2020, 11, 4802.	12.8	148
30	Role of the Excitonâ€“Polariton in a Continuous-Wave Optically Pumped CsPbBr₃ Perovskite Laser. Nano Letters, 2020, 20, 6636-6643.	9.1	145
31	Electrochemical energy storage devices working in extreme conditions. Energy and Environmental Science, 2021, 14, 3323-3351.	30.8	140
32	Metal halide perovskites: stability and sensing-ability. Journal of Materials Chemistry C, 2018, 6, 10121-10137.	5.5	131
33	Multiexcitonic Emission in Zero-Dimensional Cs₂ZrCl₆:Sb³⁺ Perovskite Crystals. Journal of the American Chemical Society, 2021, 143, 17599-17606.	13.7	131
34	Lasing from Mechanically Exfoliated 2D Homologous Ruddlesdenâ€“Popper Perovskite Engineered by Inorganic Layer Thickness. Advanced Materials, 2019, 31, e1903030.	21.0	128
35	Ultralow-Threshold Two-Photon Pumped Amplified Spontaneous Emission and Lasing from Seeded CdSe/CdS Nanorod Heterostructures. ACS Nano, 2012, 6, 10835-10844.	14.6	124
36	Development of Electrocatalysts for Efficient Nitrogen Reduction Reaction under Ambient Condition. Advanced Functional Materials, 2021, 31, 2008983.	14.9	124

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37	Lowâ€Dimensional Dionâ€“Jacobsonâ€Phase Leadâ€Free Perovskites for Highâ€Performance Photovoltaics with Improved Stability. Angewandte Chemie - International Edition, 2020, 59, 6909-6914.	13.8	123
38	Enhanced Exciton and Photon Confinement in Ruddlesdenâ€“Popper Perovskite Microplatelets for Highly Stable Lowâ€Threshold Polarized Lasing. Advanced Materials, 2018, 30, e1707235.	21.0	101
39	Lowâ€Dimensional Perovskites with Diammonium and Monoammonium Alternant Cations for Highâ€Performance Photovoltaics. Advanced Materials, 2019, 31, e1901966.	21.0	96
40	Recent Progress in Metal Halide Perovskite Microâ€and Nanolasers. Advanced Optical Materials, 2019, 7, 1900080.	7.3	95
41	Direct coherent multi-ink printing of fabric supercapacitors. Science Advances, 2021, 7, .	10.3	95
42	Spacer Cation Tuning Enables Vertically Oriented and Graded Quasiâ€2D Perovskites for Efficient Solar Cells. Advanced Functional Materials, 2021, 31, 2008404.	14.9	94
43	Oneâ€Step Inkjet Printed Perovskite in Air for Efficient Light Harvesting. Solar Rrl, 2018, 2, 1700217.	5.8	90
44	Carbon nanotubes as an efficient hole collector for high voltage methylammonium lead bromide perovskite solar cells. Nanoscale, 2016, 8, 6352-6360.	5.6	88
45	Promoting Energy Transfer via Manipulation of Crystallization Kinetics of Quasiâ€2D Perovskites for Efficient Green Lightâ€Emitting Diodes. Advanced Materials, 2021, 33, e2102246.	21.0	88
46	Ruddlesdenâ€“Popper Perovskite for Stable Solar Cells. Energy and Environmental Materials, 2018, 1, 221-231.	12.8	85
47	Enhanced power conversion efficiency in iridium complex-based terpolymers for polymer solar cells. Npj Flexible Electronics, 2018, 2, .	10.7	84
48	Multiâ€Phase Heterostructure of CoNiP/Co_xP for Enhanced Hydrogen Evolution Under Alkaline and Seawater Conditions by Promoting H₂O Dissociation. Small, 2021, 17, e2007557.	10.0	83
49	Constructing Mechanochemical Durable and Self-Healing Superhydrophobic Surfaces. ACS Omega, 2020, 5, 986-994.	3.5	79
50	Designing Advanced Vanadiumâ€Based Materials to Achieve Electrochemically Active Multielectron Reactions in Sodium/Potassiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2002244.	19.5	79
51	Microâ€and Nanostructured Lead Halide Perovskites: From Materials to Integrations and Devices. Advanced Materials, 2021, 33, e2000306.	21.0	75
52	Deep surface passivation for efficient and hydrophobic perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 2919-2927.	10.3	74
53	Development of Perovskite Oxideâ€Based Electrocatalysts for Oxygen Evolution Reaction. Small, 2021, 17, e2101605.	10.0	71
54	Thermally Activated Upconversion Nearâ€Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation. Small, 2019, 15, e1905050.	10.0	70

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55	Origin of green emission and charge trapping dynamics in ZnO nanowires. Physical Review B, 2013, 87, .	3.2	68
56	Water, a Green Solvent for Fabrication of High-Quality CsPbBr₃ Films for Efficient Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 5925-5931.	8.0	67
57	Towards Simplifying the Device Structure of Highâ€Performance Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2000863.	14.9	67
58	Antisolvent Engineering to Optimize Grain Crystallinity and Holeâ€Blocking Capability of Perovskite Films for Highâ€Performance Photovoltaics. Advanced Materials, 2021, 33, e2102816.	21.0	61
59	Vapor-Phase Incommensurate Heteroepitaxy of Oriented Single-Crystal CsPbBr₃ on GaN: Toward Integrated Optoelectronic Applications. ACS Nano, 2019, 13, 10085-10094.	14.6	59
60	2D Hybrid Halide Perovskites: Structure, Properties, and Applications in Solar Cells. Small, 2021, 17, e2103514.	10.0	59
61	Origin of High Efficiency and Long-Term Stability in Ionic Liquid Perovskite Photovoltaic. Research, 2020, 2020, 2616345.	5.7	59
62	Ultrashort laser pulse doubling by metal-halide perovskite multiple quantum wells. Nature Communications, 2020, 11, 3361.	12.8	57
63	Origin of Photocarrier Losses in Iron Pyrite (FeS₂) Nanocubes. ACS Nano, 2016, 10, 4431-4440.	14.6	56
64	Charge transfer dynamics in Cu-doped ZnO nanowires. Applied Physics Letters, 2011, 98, .	3.3	55
65	Efficient recycling of trapped energies for dual-emission in Mn-doped perovskite nanocrystals. Nano Energy, 2018, 51, 704-710.	16.0	54
66	Realization of the Photostable Intrinsic Core Emission from Carbon Dots through Surface Deoxidation by Ultraviolet Irradiation. Journal of Physical Chemistry Letters, 2019, 10, 3094-3100.	4.6	50
67	Effect of Zincâ€Doping on the Reduction of the Hotâ€Carrier Cooling Rate in Halide Perovskites. Angewandte Chemie - International Edition, 2021, 60, 10957-10963.	13.8	50
68	Toward Strong Nearâ€Infrared Absorption/Emission from Carbon Dots in Aqueous Media through Solvothermal Fusion of Large Conjugated Perylene Derivatives with Postâ€Surface Engineering. Advanced Science, 2022, 9, .	11.2	48
69	Dynamic Ultralong Organic Phosphorescence by Photoactivation. Angewandte Chemie, 2018, 130, 8561-8567.	2.0	47
70	Surface Passivation Toward Efficient and Stable Perovskite Solar Cells. Energy and Environmental Materials, 2023, 6, .	12.8	46
71	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
72	Printable Ink Design towards Customizable Miniaturized Energy Storage Devices. , 2020, 2, 1041-1056.		45

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73	Three-Photon Absorption in Seeded CdSe/CdS Nanorod Heterostructures. Journal of Physical Chemistry C, 2011, 115, 17711-17716.	3.1	43
74	Recent Advances in Blue Perovskite Quantum Dots for Lightâ€Emitting Diodes. Small, 2022, 18, e2103527.	10.0	43
75	Phononâ€Assisted Antiâ€Stokes Lasing in ZnTe Nanoribbons. Advanced Materials, 2016, 28, 276-283.	21.0	41
76	Facile deposition of high-quality Cs2AgBiBr6 films for efficient double perovskite solar cells. Science China Materials, 2020, 63, 1518-1525.	6.3	41
77	Advances of Nonlinear Photonics in Lowâ€Dimensional Halide Perovskites. Small, 2021, 17, e2100809.	10.0	39
78	In Situ Growth of MAPbBr₃ Nanocrystals on Fewâ€Layer MXene Nanosheets with Efficient Energy Transfer. Small, 2020, 16, e1905896.	10.0	38
79	Oxygen Defect Engineering of Î²â€MnO₂ Catalysts via Phase Transformation for Selective Catalytic Reduction of NO. Small, 2021, 17, e2102408.	10.0	38
80	Emerging polyanionic and organic compounds for high energy density, non-aqueous potassium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 16061-16080.	10.3	37
81	Effective Surface Ligand-Concentration Tuning of Deep-Blue Luminescent FAPbBr₃ Nanoplatelets with Enhanced Stability and Charge Transport. ACS Applied Materials & Interfaces, 2020, 12, 31863-31874.	8.0	37
82	Room temperature continuous-wave excited biexciton emission in perovskite nanoplatelets via plasmonic nonlinear fano resonance. Communications Physics, 2019, 2, .	5.3	36
83	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
84	Enhanced tunability of the multiphoton absorption cross-section in seeded CdSe/CdS nanorod heterostructures. Applied Physics Letters, 2010, 97, .	3.3	35
85	High Optical Gain of Solutionâ€Processed Mixedâ€Cation CsPbBr₃ Thin Films towards Enhanced Amplified Spontaneous Emission. Advanced Functional Materials, 2021, 31, 2102210.	14.9	35
86	Pure Bromideâ€Based Perovskite Nanoplatelets for Blue Lightâ€Emitting Diodes. Small Methods, 2019, 3, 1900196.	8.6	34
87	Reducing Oxygen Evolution Reaction Overpotential in Cobaltâ€Based Electrocatalysts via Optimizing the â€œMicroparticlesâ€inâ€Spider Webâ€•Electrode Configurations. Small, 2020, 16, e1907029.	10.0	34
88	Enhanced Near-Infrared Emission from Carbon Dots by Surface Deprotonation. Journal of Physical Chemistry Letters, 2021, 12, 604-611.	4.6	34
89	Twoâ€Photon Optical Properties in Individual Organicâ€“Inorganic Perovskite Microplates. Advanced Optical Materials, 2017, 5, 1700809.	7.3	33
90	All Green Solvents for Fabrication of CsPbBr₃ Films for Efficient Solar Cells Guided by the Hansen Solubility Theory. Solar Rrl, 2020, 4, 2000008.	5.8	33

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91	SnS44â€“, SbS43â€“, and AsS33â€“ Metal Chalcogenide Surface Ligands: Couplings to Quantum Dots, Electron Transfers, and All-Inorganic Multilayered Quantum Dot Sensitized Solar Cells. Journal of the American Chemical Society, 2015, 137, 13827-13835.	13.7	32
92	Stable Whispering Gallery Mode Lasing from Solutionâ€Processed Formamidinium Lead Bromide Perovskite Microdisks. Advanced Optical Materials, 2020, 8, 2000030.	7.3	32
93	Thioacetamide-ligand-mediated synthesis of CsPbBr₃â€“CsPbBr₃ homostructured nanocrystals with enhanced stability. Journal of Materials Chemistry C, 2021, 9, 11349-11357.	5.5	31
94	Mediumâ€Bandgap Conjugated Polymer Donors for Organic Photovoltaics. Macromolecular Rapid Communications, 2019, 40, e1900074.	3.9	30
95	Cyano-Substituted Head-to-Head Polythiophenes: Enabling High-Performance n-Type Organic Thin-Film Transistors. ACS Applied Materials & Interfaces, 2019, 11, 10089-10098.	8.0	29
96	Stimulated emission of CdS nanowires grown by thermal evaporation. Applied Physics Letters, 2007, 91, .	3.3	26
97	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
98	Lowâ€Dimensional Dionâ€“Jacobsonâ€Phase Leadâ€Free Perovskites for Highâ€Performance Photovoltaics with Improved Stability. Angewandte Chemie, 2020, 132, 6976-6981.	2.0	26
99	2,1,3-Benzothiadiazole-5,6-dicarboxylicimide-Based Polymer Semiconductors for Organic Thin-Film Transistors and Polymer Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 42167-42178.	8.0	25
100	Surface passivation of organometal halide perovskites by atomic layer deposition: an investigation of the mechanism of efficient inverted planar solar cells. Nanoscale Advances, 2021, 3, 2305-2315.	4.6	25
101	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
102	Suppressing Strong Excitonâ€“Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. Angewandte Chemie - International Edition, 2020, 59, 22156-22162.	13.8	24
103	Efficient and Stable Perovskite Solar Cells by Fluorinated Ionic Liquidâ€“Induced Component Interaction. Solar Rrl, 2021, 5, .	5.8	24
104	Metal Halide Perovskite/2D Material Heterostructures: Syntheses and Applications. Small Methods, 2021, 5, e2000937.	8.6	24
105	Controlling the film structure by regulating 2D Ruddlesdenâ€“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
106	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
107	Resonant Aluminum Nanodisk Array for Enhanced Tunable Broadband Light Trapping in Ultrathin Bulk Heterojunction Organic Photovoltaic Devices. Plasmonics, 2012, 7, 677-684.	3.4	22
108	Ultrafast Exciton Dynamics and Twoâ€Photon Pumped Lasing from ZnSe Nanowires. Advanced Optical Materials, 2013, 1, 319-326.	7.3	22

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109	Cyclometalated Pt complex-based random terpolymers for efficient polymer solar cells. Polymer Chemistry, 2017, 8, 4729-4737.	3.9	21
110	Enhanced Electrochemical Stability by Alkyldiammonium in Dionâ€“Jacobson Perovskite toward Ultrastable Lightâ€Emitting Diodes. Advanced Optical Materials, 2021, 9, 2100243.	7.3	21
111	Unconventional solution-phase epitaxial growth of organic-inorganic hybrid perovskite nanocrystals on metal sulfide nanosheets. Science China Materials, 2019, 62, 43-53.	6.3	20
112	Plasmonically Enhanced Upconversion Luminescence via Holographically Formed Silver Nanogratings. ACS Applied Materials & Interfaces, 2020, 12, 1292-1298.	8.0	20
113	Ultrasensitive Organicâ€Modulated CsPbBr 3 Quantum Dot Photodetectors via Fast Interfacial Charge Transfer. Advanced Materials Interfaces, 2020, 7, 1901741.	3.7	20
114	Vapor incubation of FASnI₃ films for efficient and stable lead-free inverted perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 16943-16951.	10.3	20
115	Two-Dimensional Bi₂Sr₂CaCu₂O_{8+Î´} Nanosheets for Ultrafast Photonics and Optoelectronics. ACS Nano, 2021, 15, 8919-8929.	14.6	20
116	Limitations and solutions for achieving high-performance perovskite tandem photovoltaics. Nano Energy, 2021, 88, 106219.	16.0	20
117	Crystal face dependent charge carrier extraction in TiO2/perovskite heterojunctions. Nano Energy, 2020, 67, 104227.	16.0	19
118	Direct siliconâ€“nitrogen bonded host materials with enhanced Ïƒâ€“Ï€ conjugation for blue phosphorescent organic light-emitting diodes. Journal of Materials Chemistry C, 2016, 4, 10047-10052.	5.5	18
119	Allâ€Inorganic Perovskite Nanocrystalsâ€Based Light Emitting Diodes and Solar Cells. ChemNanoMat, 2019, 5, 266-277.	2.8	18
120	Recent Progress in Perovskiteâ€Based Reversible Photonâ€“Electricity Conversion Devices. Advanced Functional Materials, 2022, 32, 2108926.	14.9	18
121	Low Threshold Fabryâ€“PÃ©rot Mode Lasing from Lead Iodide Trapezoidal Nanoplatelets. Small, 2018, 14, e1801938.	10.0	17
122	Tailoring the Surface Morphology and Phase Distribution for Efficient Perovskite Electroluminescence. Journal of Physical Chemistry Letters, 2020, 11, 5877-5882.	4.6	17
123	Overcoming the Limitation of Cs₂AgBiBr₆ Double Perovskite Solar Cells Through Using Mesoporous TiO₂ Electron Extraction Layer. Energy and Environmental Materials, 2022, 5, 1317-1322.	12.8	17
124	Doping Electron Transporting Layer: An Effective Method to Enhance J_{SC} of Allâ€Inorganic Perovskite Solar Cells. Energy and Environmental Materials, 2021, 4, 500-501.	12.8	17
125	Morphology Control of Doped Spiroâ€MeOTAD Films for Air Stable Perovskite Solar Cells. Small, 2020, 16, e1907513.	10.0	16
126	Bridging the Interfacial Contact for Improved Stability and Efficiency of Inverted Perovskite Solar Cells. Small, 2022, 18, e2201694.	10.0	16

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127	Hollow TiO₂ submicrospheres assembled by tiny nanocrystals as superior anode for lithium ion battery. Journal of Materials Chemistry A, 2019, 7, 23733-23738.	10.3	15
128	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
129	Emissionâ€Colorâ€Tunable Pbâ^'Sn Alloyed Single Crystals with High Luminescent Efficiency and Stability. Advanced Optical Materials, 2022, 10, .	7.3	15
130	Stable, Efficient Near-Infrared Light-Emitting Diodes Enabled by Î±/Î´ Phase Modulation. Journal of Physical Chemistry Letters, 2019, 10, 2101-2107.	4.6	14
131	Light-induced phase transition and photochromism in all-inorganic two-dimensional Cs2PbI2Cl2 perovskite. Science China Materials, 2020, 63, 1510-1517.	6.3	14
132	Robust Ultralong Lead Halide Perovskite Microwire Lasers. ACS Applied Materials & Interfaces, 2021, 13, 38458-38466.	8.0	14
133	ZIF-67 Derivative Decorated MXene for a Highly Integrated Flexible Self-Powered Photodetector. ACS Applied Materials & Interfaces, 2022, 14, 19725-19735.	8.0	14
134	Size and surface effects on transient photoconductivity in CdS nanobelts probed by time-resolved terahertz spectroscopy. Applied Physics Letters, 2012, 101, 091104.	3.3	13
135	Direct measurement of coherent phonon dynamics in solution-processed stibnite thin films. Physical Review B, 2014, 90, .	3.2	13
136	Highly stable and repeatable femtosecond soliton pulse generation from saturable absorbers based on two-dimensional Cu3â^'xP nanocrystals. Frontiers of Optoelectronics, 2020, 13, 139-148.	3.7	13
137	Stable Metalâ€"Halide Perovskite Colloids in Protic Ionic Liquid. CCS Chemistry, 2022, 4, 3264-3274.	7.8	13
138	Hot electronâ€"hole plasma dynamics and amplified spontaneous emission in ZnTe nanowires. Nanoscale, 2017, 9, 15612-15621.	5.6	12
139	Modulating Excitonic Recombination Effects through Oneâ€Step Synthesis of Perovskite Nanoparticles for Lightâ€Emitting Diodes. ChemSusChem, 2017, 10, 3818-3824.	6.8	12
140	Solutionâ€Processed Perovskite Microdisk for Coherent Light Emission. Advanced Optical Materials, 2019, 7, 1900678.	7.3	12
141	Synergistic Interplay between Asymmetric Backbone Conformation, Molecular Aggregation, and Charge-Carrier Dynamics in Fused-Ring Electron Acceptor-Based Bulk Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 2961-2970.	8.0	12
142	Lithium-rich sulfide/selenide cathodes for next-generation lithium-ion batteries: challenges and perspectives. Chemical Communications, 2022, 58, 3591-3600.	4.1	12
143	Exploring novel ligands with strong electron delocalization for high-performance blue CsPbBr₃ perovskite nanoplatelets. Journal of Materials Chemistry C, 2022, 10, 9834-9840.	5.5	12
144	Stability, encapsulation and large-area fabrication of organic photovoltaics. Science China Chemistry, 2021, 64, 1441-1459.	8.2	11

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145	Plasmonic Nanohole Arrays with Enhanced Visible Light Photoelectrocatalytic Activity. ACS Photonics, 2022, 9, 652-663.	6.6	11
146	In Operando Neutron Scattering Multipleâ€Scale Studies of Lithiumâ€Ion Batteries. Small, 2022, 18, e2107491.	10.0	11
147	Two-Dimensional Heterostructure of MoS₂/BA₂PbI₄ 2D Ruddlesdenâ€“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
148	Trapâ€Fillingâ€Induced Charge Carrier Dynamics in Organic Solar Cells. Advanced Optical Materials, 2018, 6, 1800027.	7.3	10
149	[(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
150	Phase Tailoring of Ruddlesdenâ€“Popper Perovskite at Fixed Large Spacer Cation Ratio. Small, 2021, 17, e2100560.	10.0	10
151	Near-Infrared-Excitable Organic Ultralong Phosphorescence through Multiphoton Absorption. Research, 2020, 2020, 2904928.	5.7	10
152	Development of Perovskite Oxideâ€Based Electrocatalysts for Oxygen Evolution Reaction (Small) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	10.0	10
153	Manipulation of Band Alignment in Two-Dimensional Vertical WSe₂/BA₂PbI₄ Ruddlesdenâ€“Popper Perovskite Heterojunctions via Defect Engineering. Journal of Physical Chemistry Letters, 2022, 13, 4579-4588.	4.6	10
154	Broadband white-light emission from a novel two-dimensional metal halide assembled by Pbâ€“Cl hendecahedrons. Journal of Materials Chemistry C, 2022, 10, 9465-9470.	5.5	10
155	Understanding the Impact of Cu-In-Ga-S Nanoparticles Compactness on Holes Transfer of Perovskite Solar Cells. Nanomaterials, 2019, 9, 286.	4.1	9
156	Effects of Material Dimensionality on the Optical Properties of CsPbBr₃ Nanomaterials. Journal of Physical Chemistry C, 2019, 123, 28893-28897.	3.1	8
157	Improved CsPbBr 3 visible light photodetectors via decoration of sputtered au nanoparticles with synergistic benefits. Nano Select, 0, , .	3.7	8
158	A visible to near-infrared nanocrystalline organic photodetector with ultrafast photoresponse. Journal of Materials Chemistry C, 2022, 10, 9391-9400.	5.5	8
159	Design, synthesis and application in biological imaging of a novel red fluorescent dye based on a rhodanine derivative. RSC Advances, 2021, 11, 160-163.	3.6	7
160	Perovskite Solar Cells: Lowâ€Dimensional Perovskites with Diammonium and Monoammonium Alternant Cations for Highâ€Performance Photovoltaics (Adv. Mater. 35/2019). Advanced Materials, 2019, 31, 1970252.	21.0	6
161	Ultrafast carrier relaxation dynamics of photoexcited GaAs and GaAs/AlGaAs nanowire array. Physical Chemistry Chemical Physics, 2020, 22, 25819-25826.	2.8	6
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