

Qifan Xue

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papers

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3,998
ext. citations

14.2
avg, IF

5.57
L-index

#	Paper	IF	Citations
33	Modulation of recombination zone position for quasi-two-dimensional blue perovskite light-emitting diodes with efficiency exceeding 5. <i>Nature Communications</i> , 2019 , 10, 1027	17.4	282
32	Interface Engineering for All-Inorganic CsPbI ₃ Br Perovskite Solar Cells with Efficiency over 14. <i>Advanced Materials</i> , 2018 , 30, e1802509	24	269
31	Dual Interfacial Design for Efficient CsPbI ₃ Br Perovskite Solar Cells with Improved Photostability. <i>Advanced Materials</i> , 2019 , 31, e1901152	24	248
30	Amino-Functionalized Conjugated Polymer as an Efficient Electron Transport Layer for High-Performance Planar-Heterojunction Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1501534	21.8	247
29	Effects of a Molecular Monolayer Modification of NiO Nanocrystal Layer Surfaces on Perovskite Crystallization and Interface Contact toward Faster Hole Extraction and Higher Photovoltaic Performance. <i>Advanced Functional Materials</i> , 2016 , 26, 2950-2958	15.6	239
28	Recent advances in semi-transparent polymer and perovskite solar cells for power generating window applications. <i>Energy and Environmental Science</i> , 2018 , 11, 1688-1709	35.4	202
27	Highly efficient all-inorganic perovskite solar cells with suppressed non-radiative recombination by a Lewis base. <i>Nature Communications</i> , 2020 , 11, 177	17.4	200
26	Highly efficient fullerene/perovskite planar heterojunction solar cells via cathode modification with an amino-functionalized polymer interlayer. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19598-19603	13	174
25	High-Performance Color-Tunable Perovskite Light Emitting Devices through Structural Modulation from Bulk to Layered Film. <i>Advanced Materials</i> , 2017 , 29, 1603157	24	172
24	Dual Interfacial Modifications Enable High Performance Semitransparent Perovskite Solar Cells with Large Open Circuit Voltage and Fill Factor. <i>Advanced Energy Materials</i> , 2017 , 7, 1602333	21.8	161
23	Structurally Reconstructed CsPbI ₂ Br Perovskite for Highly Stable and Square-Centimeter All-Inorganic Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1803572	21.8	149
22	Improving Film Formation and Photovoltage of Highly Efficient Inverted-Type Perovskite Solar Cells through the Incorporation of New Polymeric Hole Selective Layers. <i>Advanced Energy Materials</i> , 2016 , 6, 1502021	21.8	141
21	Inorganic Halide Perovskite Solar Cells: Progress and Challenges. <i>Advanced Energy Materials</i> , 2020 , 10, 2000183	21.8	111
20	Enhancing the Performance of Inverted Perovskite Solar Cells via Grain Boundary Passivation with Carbon Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3044-3052	9.5	94
19	Fluoranthene-based dopant-free hole transporting materials for efficient perovskite solar cells. <i>Chemical Science</i> , 2018 , 9, 2698-2704	9.4	87
18	Dopant-Free Squaraine-Based Polymeric Hole-Transporting Materials with Comprehensive Passivation Effects for Efficient All-Inorganic Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17724-17730	16.4	83
17	Phosphonium Halides as Both Processing Additives and Interfacial Modifiers for High Performance Planar-Heterojunction Perovskite Solar Cells. <i>Small</i> , 2015 , 11, 3344-50	11	78

16	Efficient and Stable Perovskite Solar Cells via Dual Functionalization of Dopamine Semiquinone Radical with Improved Trap Passivation Capabilities. <i>Advanced Functional Materials</i> , 2018 , 28, 1707444	15.6	74
15	Metallohalide perovskite/polymer composite film for hybrid planar heterojunction solar cells. <i>RSC Advances</i> , 2015 , 5, 775-783	3.7	64
14	Recombination Dynamics Study on Nanostructured Perovskite Light-Emitting Devices. <i>Advanced Materials</i> , 2018 , 30, e1801370	24	60
13	A PCBM Electron Transport Layer Containing Small Amounts of Dual Polymer Additives that Enables Enhanced Perovskite Solar Cell Performance. <i>Advanced Science</i> , 2016 , 3, 1500353	13.6	52
12	Growth and evolution of solution-processed CH ₃ NH ₃ PbI ₃ -xCl _x layer for highly efficient planar-heterojunction perovskite solar cells. <i>Journal of Power Sources</i> , 2016 , 301, 242-250	8.9	38
11	High performance low-bandgap perovskite solar cells based on a high-quality mixed SnPb perovskite film prepared by vacuum-assisted thermal annealing. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16347-16354	13	31
10	Recent Advances in Perovskite Solar Cells: Morphology Control and Interfacial Engineering. <i>Acta Chimica Sinica</i> , 2015 , 73, 179	3.3	27
9	Fluoro- and Amino-Functionalized Conjugated Polymers as Electron Transport Materials for Perovskite Solar Cells with Improved Efficiency and Stability. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5289-5297	9.5	23
8	In-situ synthesis of metal nanoparticle-polymer composites and their application as efficient interfacial materials for both polymer and planar heterojunction perovskite solar cells. <i>Organic Electronics</i> , 2015 , 27, 46-52	3.5	18
7	Engineering of perovskite light-emitting diodes based on quasi-2D perovskites formed by diamine cations. <i>Organic Electronics</i> , 2019 , 75, 105400	3.5	12
6	Metal-Halide Perovskite Crystallization Kinetics: A Review of Experimental and Theoretical Studies. <i>Advanced Energy Materials</i> , 2021 , 11, 2100784	21.8	10
5	The Energy-Alignment Engineering in Polytriphenylamines-Based Hole Transport Polymers Realizes Low Energy Loss and High Efficiency for All-Inorganic Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900265	7.1	8
4	Molecularly Engineered Interfaces in Metal Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4882-4901	6.4	7
3	Monolithic perovskite/organic tandem solar cells: Developments, prospects, and challenges. <i>Nano Select</i> , 2021 , 2, 1266-1276	3.1	7
2	Architecturing 1D-2D-3D Multidimensional Coupled CsPbI Br Perovskites toward Highly Effective and Stable Solar Cells. <i>Small</i> , 2021 , 17, e2100888	11	6
1	Interface Engineering for All-Inorganic CsPbIBr ₂ Perovskite Solar Cells with Enhanced Power Conversion Efficiency over 11%. <i>Energy Technology</i> , 2100562	3.5	5