

Polymer-templated nucleation and crystal growth of perovskite solar cells with energy conversion efficiency greater than 21%

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Characterization and Photovoltaic Properties of BiFeO <sub>3</sub> Thin Films. <i>Coatings</i> , 2016, 6, 68.	1.2	17
2	D-A- $\pi$ -A Motif Quinoxaline-Based Sensitizers with High Molar Extinction Coefficient for Quasi-Solid-State Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 31016-31024.	4.0	46
3	Turning a disadvantage into an advantage: synthesizing high-quality organometallic halide perovskite nanosheet arrays for humidity sensors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2504-2508.	2.7	74
4	Tailoring interface of lead-halide perovskite solar cells. <i>Nano Research</i> , 2017, 10, 1471-1497.	5.8	39
5	Ultrasoother Perovskite Film via Mixed Anti-Solvent Strategy with Improved Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 3667-3676.	4.0	98
6	All-vacuum-Deposited Stoichiometrically Balanced Inorganic Cesium Lead Halide Perovskite Solar Cells with Stabilized Efficiency Exceeding 11%. <i>Advanced Materials</i> , 2017, 29, 1605290.	11.1	321
7	Cu(II) Complexes as p-Type Dopants in Efficient Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 497-503.	8.8	77
8	Two-Step Sequential Deposition of Organometal Halide Perovskite for Photovoltaic Application. <i>Advanced Functional Materials</i> , 2017, 27, 1605654.	7.8	120
9	Nucleation mediated interfacial precipitation for architectural perovskite films with enhanced photovoltaic performance. <i>Nanoscale</i> , 2017, 9, 2569-2578.	2.8	27
10	Efficient and stable solution-processed planar perovskite solar cells via contact passivation. <i>Science</i> , 2017, 355, 722-726.	6.0	2,019
11	Improved Reproducibility for Perovskite Solar Cells with 1 cm <sup>2</sup> Active Area by a Modified Two-Step Process. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 5974-5981.	4.0	41
12	Atomistic Origins of Surface Defects in CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Perovskite and Their Electronic Structures. <i>ACS Nano</i> , 2017, 11, 2060-2065.	7.3	123
13	2,9,16,23-Tetrakis(7-coumarinoxy-4-methyl)- metallophthalocyanines -based hole transporting material for mixed-perovskite solar cells. <i>Synthetic Metals</i> , 2017, 226, 1-6.	2.1	20
14	Covalently Connecting Crystal Grains with Polyvinylammonium Carbochain Backbone To Suppress Grain Boundaries for Long-Term Stable Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6064-6071.	4.0	33
15	Facile Face-Down Annealing Triggered Remarkable Texture Development in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Films for High-Performance Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6104-6113.	4.0	67
16	Chemical Vapor Deposition of Perovskites for Photovoltaic Application. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600970.	1.9	46
17	Carbon-Based Perovskite Solar Cells without Hole Transport Materials: The Front Runner to the Market?. <i>Advanced Materials</i> , 2017, 29, 1603994.	11.1	261
18	Recent advances in perovskite solar cells: efficiency, stability and lead-free perovskite. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11462-11482.	5.2	378

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20	Scalable Ligand-Mediated Transport Synthesis of Organic-Inorganic Hybrid Perovskite Nanocrystals with Resolved Electronic Structure and Ultrafast Dynamics. <i>ACS Nano</i> , 2017, 11, 2689-2696.	7.3	62
21	The detailed balance limit of perovskite/silicon and perovskite/CdTe tandem solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600955.	0.8	44
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24	Isomer-Pure Bis-PCBM-Assisted Crystal Engineering of Perovskite Solar Cells Showing Excellent Efficiency and Stability. <i>Advanced Materials</i> , 2017, 29, 1606806.	11.1	320
25	Low-bandgap mixed tin-lead iodide perovskite absorbers with long carrier lifetimes for all-perovskite tandem solar cells. <i>Nature Energy</i> , 2017, 2, .	19.8	634
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34	Development of electron and hole selective contact materials for perovskite solar cells. <i>Chinese Chemical Letters</i> , 2017, 28, 1144-1152.	4.8	20
35	Cost-effective sustainable-engineering of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells through slicing and restacking of 2D layers. <i>Nano Energy</i> , 2017, 36, 295-302.	8.2	30
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44	Understanding and Eliminating Hysteresis for Highly Efficient Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700414.	10.2	190
45	MgO Nanoparticle Modified Anode for Highly Efficient $\text{SnO}_2$ -Based Planar Perovskite Solar Cells. <i>Advanced Science</i> , 2017, 4, 1700031.	5.6	175
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54	In Situ Observation of Crystallization of Methylammonium Lead Iodide Perovskite from Microdroplets. <i>Small</i> , 2017, 13, 1604125.	5.2	39

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74	An annealing-free aqueous-processed anatase TiO <sub>2</sub> compact layer for efficient planar heterojunction perovskite solar cells. <i>Chemical Communications</i> , 2017, 53, 10882-10885.	2.2	31
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110	Simulations of 3-dimensional ferroelectric domains in perovskite solar cells based on MAPbI <sub>3</sub> . , 2017, , .		0
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128	A gradient engineered hole-transporting material for monolithic series-type large-area perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21161-21168.	5.2	35
129	Laser-Induced Localized Growth of Methylammonium Lead Halide Perovskite Nano- and Microcrystals on Substrates. <i>Advanced Functional Materials</i> , 2017, 27, 1701613.	7.8	38
130	Improved efficiency and short-term stability of the planar heterojunction perovskite solar cells with a polyelectrolyte layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1700281.	0.8	3
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414	Enhanced stability of perovskite solar cells using hydrophobic organic fluoropolymer. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	14
415	Effect of PbI <sub>2</sub> solution on air-preparation of perovskite solar cells for enhanced performance. <i>Applied Surface Science</i> , 2018, 458, 172-182.	3.1	24
416	Triazatetrabenzcorrole (TBC) as efficient dopant-free hole transporting materials for organo metal halide perovskite solar cells. <i>Dyes and Pigments</i> , 2018, 159, 600-603.	2.0	14



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418	Toward Industrial-Scale Production of Perovskite Solar Cells: Screen Printing, Slot-Die Coating, and Emerging Techniques. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2707-2713.	2.1	124
419	Enhanced stability and optoelectronic properties of MAPbI <sub>3</sub> films by a cationic surface-active agent for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10825-10834.	5.2	81
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428	Spin control in reduced-dimensional chiral perovskites. <i>Nature Photonics</i> , 2018, 12, 528-533.	15.6	371
429	Efficient and Stable Nonfullerene Graded Heterojunction Inverted Perovskite Solar Cells with Inorganic Ga <sub>2</sub> O <sub>3</sub> Tunneling Protective Nanolayer. <i>Advanced Functional Materials</i> , 2018, 28, 1804128.	7.8	76
430	FA <sub>0.88</sub> Cs <sub>0.12</sub> PbI <sub>3</sub> (PF <sub>6</sub> ) <sub>x</sub> Interlayer Formed by Ion Exchange Reaction between Perovskite and Hole Transporting Layer for Improving Photovoltaic Performance and Stability. <i>Advanced Materials</i> , 2018, 30, e1801948.	11.1	214
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432	Anchoring Fullerene onto Perovskite Film via Grafting Pyridine toward Enhanced Electron Transport in High-Efficiency Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 32471-32482.	4.0	73
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1600	ε <sup>TM</sup> é'çÿžâ±,â <sup>é</sup> ~ <sup>3</sup> ç”μæ±ä,ç”μè•ä¼è¾“ææ– <sup>TM</sup> çš,,ç”ç©¶è;â±•. <i>Science China Materials</i> , 2023, 66, 2107-2127.	3.5	1
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