

# Growth of $\text{CH}_3\text{NH}_3\text{PbI}_3$ cuboids with controlled size for solar cells

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Citation Report

#	ARTICLE	IF	CITATIONS
4	Tuning the Light Emission Properties by Band Gap Engineering in Hybrid Lead Halide Perovskite. Journal of the American Chemical Society, 2014, 136, 17730-17733.	6.6	546
5	Defect density and dielectric constant in perovskite solar cells. Applied Physics Letters, 2014, 105, .	1.5	221
6	Low-temperature processed high-performance flexible perovskite solar cells via rationally optimized solvent washing treatments. RSC Advances, 2014, 4, 62971-62977.	1.7	182
7	Strong Photocurrent Amplification in Perovskite Solar Cells with a Porous TiO <sub>2</sub> Blocking Layer under Reverse Bias. Journal of Physical Chemistry Letters, 2014, 5, 3931-3936.	2.1	104
8	Two-step deposition method for high-efficiency perovskite solar cells. MRS Bulletin, 2015, 40, 654-659.	1.7	50
9	Photovoltaic devices employing vacuum-deposited perovskite layers. MRS Bulletin, 2015, 40, 660-666.	1.7	58
10	Steps toward efficient inorganic-organic hybrid perovskite solar cells. MRS Bulletin, 2015, 40, 648-653.	1.7	33
11	Charge-Carrier Dynamics and Mobilities in Formamidinium Lead Mixed-Halide Perovskites. Advanced Materials, 2015, 27, 7938-7944.	11.1	343
12	Multifunctional Inverse Opal-Like TiO <sub>2</sub> Electron Transport Layer for Efficient Hybrid Perovskite Solar Cells. Advanced Science, 2015, 2, 1500105.	5.6	58
13	Surface Engineering of ZnO Thin Film for High Efficiency Planar Perovskite Solar Cells. Scientific Reports, 2015, 5, 13211.	1.6	155
14	Electrodeposited Ultrathin TiO <sub>2</sub> Blocking Layers for Efficient Perovskite Solar Cells. Scientific Reports, 2015, 5, 16098.	1.6	96
15	Perovskite Photovoltaics: Rare Functions of Organo Lead Halide in Solar Cells and Optoelectronic Devices. Chemistry Letters, 2015, 44, 720-729.	0.7	216
16	Stable and Efficient Perovskite Solar Cells Based on Titania Nanotube Arrays. Small, 2015, 11, 5533-5539.	5.2	80
17	Improving the Extraction of Photogenerated Electrons with SnO <sub>2</sub> Nanocolloids for Efficient Planar Perovskite Solar Cells. Advanced Functional Materials, 2015, 25, 7200-7207.	7.8	194
18	Planar Heterojunction Perovskite Solar Cells Incorporating Metal-Organic Framework Nanocrystals. Advanced Materials, 2015, 27, 7229-7235.	11.1	134
19	Square-Centimeter Solution-Processed Planar CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells with Efficiency Exceeding 15%. Advanced Materials, 2015, 27, 6363-6370.	11.1	311
20	Polymer/Perovskite Amplifying Waveguides for Active Hybrid Silicon Photonics. Advanced Materials, 2015, 27, 6157-6162.	11.1	83
21	Beyond Efficiency: the Challenge of Stability in Mesoscopic Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1501066.	10.2	395

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22	A Smooth CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Film via a New Approach for Forming the PbI <sub>2</sub> Nanostructure Together with Strategically High CH <sub>3</sub> NH <sub>3</sub> I Concentration for High Efficient Planar Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1501354.	10.2	228
23	Controllable Growth of Perovskite Films by Room Temperature Air Exposure for Efficient Planar Heterojunction Photovoltaic Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14862-14865.	7.2	41
24	Plasmonic Induced Photon Recycling in Metal Halide Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 5038-5046.	7.8	198
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27	Effective Electron Blocking of CuPC Doped Spiro-OMeTAD for Highly Efficient Inorganic Organic Hybrid Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1501320.	10.2	84
28	Morphology Controlled Synthesis of Organometal Halide Perovskite Inverse Opals. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13806-13810.	7.2	68
29	A promising unisource thermal evaporation for <i>in situ</i> fabrication of organolead halide perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> thin film. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1901-1907.	4.4	28
30	Recent Advances of Cobalt(II/III) Redox Couples for Dye Sensitized Solar Cell Applications. <i>Chemical Record</i> , 2015, 15, 760-788.	2.9	68
31	High Performance Semitransparent Perovskite Solar Cells with 10% Power Conversion Efficiency and 25% Average Visible Transmittance Based on Transparent CuSCN as the Hole Transporting Material. <i>Advanced Energy Materials</i> , 2015, 5, 1500486.	10.2	221
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39	Formamidinium and Cesium Hybridization for Photo and Moisture Stable Perovskite Solar Cell. <i>Advanced Energy Materials</i> , 2015, 5, 1501310.	10.2	1,350
40	Mechanically Recoverable and Highly Efficient Perovskite Solar Cells: Investigation of Intrinsic Flexibility of Organic Inorganic Perovskite. <i>Advanced Energy Materials</i> , 2015, 5, 1501406.	10.2	131
41	Modulation of photovoltage in mesoscopic perovskite solar cell by controlled interfacial electron injection. <i>RSC Advances</i> , 2015, 5, 47334-47340.	1.7	25
42	Novel planar heterostructure perovskite solar cells with CdS nanorods array as electron transport layer. <i>Solar Energy Materials and Solar Cells</i> , 2015, 140, 396-404.	3.0	72

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50	Tunable Optical Properties and Charge Separation in CH <sub>3</sub> NH <sub>3</sub> Sn <sub>x</sub> Pb <sub>1-x</sub> I <sub>3</sub> /TiO <sub>2</sub> -Based Planar Perovskites Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 8227-8236.	4.3	140
51	Smooth perovskite thin films and efficient perovskite solar cells prepared by the hybrid deposition method. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14631-14641.	5.2	126
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80	Fully Printable Mesoscopic Perovskite Solar Cells with Organic Silane Self-Assembled Monolayer. <i>Journal of the American Chemical Society</i> , 2015, 137, 1790-1793.	6.6	414
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82	Ultra-thin high efficiency semitransparent perovskite solar cells. <i>Nano Energy</i> , 2015, 13, 249-257.	8.2	310
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98	Efficient Light Harvester Layer Prepared by Solid/Mist Interface Reaction for Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16907-16912.	4.0	26
99	Interface engineering for high-performance perovskite hybrid solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19205-19217.	5.2	145
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136	Thin Films of Dendritic Anatase Titania Nanowires Enable Effective Hole-Blocking and Efficient Light-Harvesting for High-Performance Mesoscopic Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 3264-3272.	7.8	101
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138	Ferroelectric polarization driven optical absorption and charge carrier transport in $\text{CH}_3\text{NH}_3\text{PbI}_3/\text{TiO}_2$ -based photovoltaic cells. <i>Journal of Power Sources</i> , 2015, 291, 58-65.	4.0	10
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974	Real time observation of photo-instability of ternary-halide mixed CH <sub>3</sub> NH <sub>3</sub> Pb(Br <sub>1-x</sub> Cl <sub>x</sub> ) <sub>3</sub> perovskite: Preferential diffusion of small halide ions. <i>Journal of Alloys and Compounds</i> , 2019, 808, 151716.	2.8	5
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976	Crystalline Liquid-like Behavior: Surface-Induced Secondary Grain Growth of Photovoltaic Perovskite Thin Film. <i>Journal of the American Chemical Society</i> , 2019, 141, 13948-13953.	6.6	163
977	Metal Halide Perovskite and Phosphorus Doped g-C <sub>3</sub> N <sub>4</sub> Bulk Heterojunctions for Air-Stable Photodetectors. <i>ACS Energy Letters</i> , 2019, 4, 2315-2322.	8.8	36
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1040	Methods and strategies for achieving high-performance carbon-based perovskite solar cells without hole transport materials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15476-15490.	5.2	85
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