

Unique Properties of Halide Perovskites as Possible Ori Performance

Advanced Materials

26, 4653-4658

DOI: [10.1002/adma.201306281](https://doi.org/10.1002/adma.201306281)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Shallow halogen vacancies in halide optoelectronic materials. <i>Physical Review B</i> , 2014, 90, .	1.1	119
2	Qualifying composition dependent $\langle i \rangle_p$ and $\langle i \rangle_n$ self-doping in $\text{CH}_3\text{NH}_3\text{PbI}_3$. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	518
3	Solution-processed hybrid perovskite photodetectors with high detectivity. <i>Nature Communications</i> , 2014, 5, 5404.	5.8	2,214
4	Predictions for p-Type $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskites. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25350-25354.	1.5	71
5	Anomalous Alloy Properties in Mixed Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3625-3631.	2.1	231
6	First-Principles Study of Lead Iodide Perovskite Tetragonal and Orthorhombic Phases for Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19565-19571.	1.5	220
7	Influence of Defects and Synthesis Conditions on the Photovoltaic Performance of Perovskite Semiconductor CsSn_3 . <i>Chemistry of Materials</i> , 2014, 26, 6068-6072.	3.2	256
8	Hole blocking $\text{Pb}_2/\text{CH}_3\text{NH}_3\text{Pb}_3$ interface. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 08, 763-766.	1.2	46
9	Vapor-assisted solution process for perovskite materials and solar cells. <i>MRS Bulletin</i> , 2015, 40, 667-673.	1.7	39
10	Identifying defect-tolerant semiconductors with high minority-carrier lifetimes: beyond hybrid lead halide perovskites. <i>MRS Communications</i> , 2015, 5, 265-275.	0.8	662
11	Charge-Carrier Dynamics and Mobilities in Formamidinium Lead Mixed-Halide Perovskites. <i>Advanced Materials</i> , 2015, 27, 7938-7944.	11.1	343
12	Methylammonium fragmentation in amines as source of localized trap levels and the healing role of Cl in hybrid lead-iodide perovskites. <i>Physical Review B</i> , 2015, 92, .	1.1	54
13	Hexagonal rare-earth manganites as promising photovoltaics and light polarizers. <i>Physical Review B</i> , 2015, 92, .	1.1	100
14	Self-regulation of charged defect compensation and formation energy pinning in semiconductors. <i>Scientific Reports</i> , 2015, 5, 16977.	1.6	56
15	Polymer/Perovskite Amplifying Waveguides for Active Hybrid Silicon Photonics. <i>Advanced Materials</i> , 2015, 27, 6157-6162.	11.1	83
16	Copper(I) Iodide as Hole-Conductor in Planar Perovskite Solar Cells: Probing the Origin of $\langle i \rangle_V$ Hysteresis. <i>Advanced Functional Materials</i> , 2015, 25, 5650-5661.	7.8	260
17	Hybrid Organic-Inorganic Perovskites (HOIPs): Opportunities and Challenges. <i>Advanced Materials</i> , 2015, 27, 5102-5112.	11.1	372
18	One-Dimensional Self-Standing TiO_2 Nanotube Array Layers Designed for Perovskite Solar Cell Applications. <i>ChemPhysChem</i> , 2015, 16, 2836-2841.	1.0	29

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19	Lead Replacement in CH ₃ NH ₃ PbI ₃ Perovskites. <i>Advanced Electronic Materials</i> , 2015, 1, 1500089.	2.6	67
20	Perovskite Quantum Dots Modeled Using ab Initio and Replica Exchange Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13965-13971.	1.5	28
21	Low-Temperature Solution-Processed Tin Oxide as an Alternative Electron Transporting Layer for Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 6730-6733.	6.6	1,045
22	Solvent engineering towards controlled grain growth in perovskite planar heterojunction solar cells. <i>Nanoscale</i> , 2015, 7, 10595-10599.	2.8	294
23	Thin-film Sb ₂ Se ₃ photovoltaics with oriented one-dimensional ribbons and benign grain boundaries. <i>Nature Photonics</i> , 2015, 9, 409-415.	15.6	781
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25	Halide-Dependent Electronic Structure of Organolead Perovskite Materials. <i>Chemistry of Materials</i> , 2015, 27, 4405-4412.	3.2	305
26	Spectroscopic ellipsometry studies of CH ₃ NH ₃ PbX ₃ thin films and their growth evolution. , 2015, , .		5
27	Perovskites: Solar cells & engineering applications – materials and device developments. <i>Solar Energy</i> , 2015, 122, 678-699.	2.9	133
28	Exploring the performance limiting parameters of perovskite solar cell through experimental analysis and device simulation. <i>Solar Energy</i> , 2015, 122, 773-782.	2.9	42
29	Optical Properties of Photovoltaic Organic/Inorganic Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4774-4785.	2.1	280
30	Phenoxazine-Based Small Molecule Material for Efficient Perovskite Solar Cells and Bulk Heterojunction Organic Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1401720.	10.2	109
31	Superior Photovoltaic Properties of Lead Halide Perovskites: Insights from First-Principles Theory. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5253-5264.	1.5	246
32	Phosphonium Halides as Both Processing Additives and Interfacial Modifiers for High Performance Planar Heterojunction Perovskite Solar Cells. <i>Small</i> , 2015, 11, 3344-3350.	5.2	91
33	Organic/inorganic halide perovskite based solar cells – revolutionary progress in photovoltaics. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 315-335.	3.0	70
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35	Cooperative kinetics of depolarization in CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Energy and Environmental Science</i> , 2015, 8, 910-915.	15.6	116
36	Control of Charge Transport in the Perovskite CH ₃ NH ₃ PbI ₃ Thin Film. <i>ChemPhysChem</i> , 2015, 16, 842-847.	1.0	36

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37	Perovskite thin-film solar cell: excitation in photovoltaic science. <i>Science China Chemistry</i> , 2015, 58, 221-238.	4.2	63
38	A Universal Interface Layer Based on an Amine-Functionalized Fullerene Derivative with Dual Functionality for Efficient Solution Processed Organic and Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1401692.	10.2	144
39	Benefit of Grain Boundaries in Organic-Inorganic Halide Planar Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 875-880.	2.1	422
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43	Uncovering the Veil of the Degradation in Perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ upon Humidity Exposure: A First-Principles Study. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3289-3295.	2.1	171
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46	Evolution of Organic-Inorganic Lead Halide Perovskite from Solid-State Iodoplumbate Complexes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17065-17073.	1.5	70
47	Efficient fiber-shaped perovskite photovoltaics using silver nanowires as top electrode. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19310-19313.	5.2	70
48	Thin-Film Preparation and Characterization of $\text{Cs}_3\text{Sb}_2\text{I}_9$: A Lead-Free Layered Perovskite Semiconductor. <i>Chemistry of Materials</i> , 2015, 27, 5622-5632.	3.2	653
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66	Native defects in Ti_6Si_4 : Density functional calculations. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	7
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74	First-Principles Study of Ion Diffusion in Perovskite Solar Cell Sensitizers. <i>Journal of the American Chemical Society</i> , 2015, 137, 10048-10051.	6.6	582
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77	Collective Behavior of Molecular Dipoles in $CH_3NH_3PbI_3$. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19674-19680.	1.5	46
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81	Investigation of Bismuth Triiodide (BiI_3) for Photovoltaic Applications. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4297-4302.	2.1	176
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121	Efficient Perovskite Hybrid Photovoltaics via Alcoholâ€“Vapor Annealing Treatment. <i>Advanced Functional Materials</i> , 2016, 26, 101-110.	7.8	117
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