

Lead-free organic–inorganic tin halide perovskites for

Energy and Environmental Science

7, 3061-3068

DOI: 10.1039/c4ee01076k

Citation Report

#	ARTICLE	IF	CITATIONS
3	band gap of the hybrid organic-inorganic perovskite Effect of spin-orbit interaction, semicore electrons, an. Physical Review B, 2014, 90, .	1.1	126
4	Tunable ferroelectric polarization and its interplay with spin-orbit coupling in tin iodide perovskites. Nature Communications, 2014, 5, 5900.	5.8	247
5	Shallow halogen vacancies in halide optoelectronic materials. Physical Review B, 2014, 90, .	1.1	119
6	$\Gamma^2$ -(p-Carboxyaminophenyl)porphyrin derivatives: new dyes for TiO <sub>2</sub> dye-sensitized solar cells. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	7
7	Perovskite based solar cells: A milestone towards cheaper PV technology. , 2014, , .		1
8	Anomalous Band Gap Behavior in Mixed Sn and Pb Perovskites Enables Broadening of Absorption Spectrum in Solar Cells. Journal of the American Chemical Society, 2014, 136, 8094-8099.	6.6	1,234
9	Reduced ultraviolet light induced degradation and enhanced light harvesting using YVO <sub>4</sub> :Eu <sup>3+</sup> down-shifting nano-phosphor layer in organometal halide perovskite solar cells. Applied Physics Letters, 2014, 105, .	1.5	147
10	Remnant PbI <sub>2</sub> , an unforeseen necessity in high-efficiency hybrid perovskite-based solar cells?. APL Materials, 2014, 2, .	2.2	264
11	Solution Chemistry Engineering toward High-Efficiency Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 4175-4186.	2.1	227
12	A Layered Hybrid Perovskite Solar Cell Absorber with Enhanced Moisture Stability. Angewandte Chemie - International Edition, 2014, 53, 11232-11235.	7.2	1,547
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17	Parameters Affecting $I_{sc}$ Hysteresis of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells: Effects of Perovskite Crystal Size and Mesoporous TiO <sub>2</sub> Layer. Journal of Physical Chemistry Letters, 2014, 5, 2927-2934.	2.1	974
18	Correlated electron-hole plasma in organometal perovskites. Nature Communications, 2014, 5, 5049.	5.8	497
19	Strong Covalency-Induced Recombination Centers in Perovskite Solar Cell Material CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . Journal of the American Chemical Society, 2014, 136, 14570-14575.	6.6	462
20	Lead-Free Halide Perovskite Solar Cells with High Photocurrents Realized Through Vacancy Modulation. Advanced Materials, 2014, 26, 7122-7127.	11.1	942
21	The emergence of perovskite solar cells. Nature Photonics, 2014, 8, 506-514.	15.6	5,727

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22	Organo-metal perovskite based solar cells: sensitized versus planar architecture. RSC Advances, 2014, 4, 29012-29021.	1.7	55
23	Slow Dynamic Processes in Lead Halide Perovskite Solar Cells. Characteristic Times and Hysteresis. Journal of Physical Chemistry Letters, 2014, 5, 2357-2363.	2.1	609
24	Ab Initio Analysis of Charge Carrier Dynamics in Organic-Inorganic Lead Halide Perovskite Solar Cells. Materials Research Society Symposia Proceedings, 2015, 1776, 19-29.	0.1	4
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28	Photocatalytic Reduction of Carbon Dioxide. , 2015, , 186-199.		1
31	Antiperovskite Chalco-Halides Ba <sub>3</sub> (FeS <sub>4</sub> )Cl, Ba <sub>3</sub> (FeS <sub>4</sub> )Br and Ba <sub>3</sub> (FeSe <sub>4</sub> )Br with Spin Super-Super Exchange. Scientific Reports, 2015, 5, 15910.	1.6	15
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35	Unraveling the Reasons for Efficiency Loss in Perovskite Solar Cells. Advanced Functional Materials, 2015, 25, 3925-3933.	7.8	129
36	Bismuth Based Hybrid Perovskites A <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> (A: Methylammonium or Tj ETQq1 1 0.784314 rgB / 1,017	11.1	1,017
37	Can Trihalide Lead Perovskites Support Continuous Wave Lasing?. Advanced Optical Materials, 2015, 3, 1557-1564.	3.6	72
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1627	Regulating the Auger Recombination Process in Two-Dimensional Sn-Based Halide Perovskites. ACS Photonics, 2022, 9, 1627-1637.	3.2	4
1628	Study of narrow band gap double perovskites (Sr/Ba) <sub>2</sub> BB'O <sub>6</sub> (B = In, Tl, B' = Sb, Bi) for optical, thermoelectric, and mechanical properties. Materials Today Communications, 2022, 31, 103547.	0.9	9
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1634	Effect of vertical strain and in-plane biaxial strain on type-II MoSi <sub>2</sub> N <sub>4</sub> /Cs <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> van der Waals heterostructure. Journal of Applied Physics, 2022, 131, .	1.1	11
1635	Comparative performance analysis of lead-free perovskites solar cells by numerical simulation. Journal of Applied Physics, 2022, 131, .	1.1	32
1636	Optoelectronic Properties of Mixed Iodide-Bromide Perovskites from First-Principles Computational Modeling and Experiment. Journal of Physical Chemistry Letters, 2022, 13, 4184-4192.	2.1	16
1637	4-Hydrazinobenzoic Acid Antioxidant for High Efficiency Sn-Pb Alloyed Perovskite Solar Cells. Energy Technology, 2022, 10, .	1.8	10
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1645	Lead-free perovskite solar cell by Using SCAPS-1D: Design and simulation. <i>Materials Today: Proceedings</i> , 2022, 62, 4327-4331.	0.9	7
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1677	Suppression of Sn <sup>2+</sup> oxidation and formation of large-size crystal grains with multifunctional chloride salt for perovskite solar cell applications. <i>Journal of Materials Chemistry C</i> , 2022, 10, .	2.7	5
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