

Long-Range Balanced Electron- and Hole-Transport Layer
NH₃ PbI₃

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Citation Report

#	ARTICLE	IF	CITATIONS
11	Perovskites under the Sun. Nature Materials, 2013, 12, 1087-1089.	27.5	109
12	Small Photocarrier Effective Masses Featuring Ambipolar Transport in Methylammonium Lead Iodide Perovskite: A Density Functional Analysis. Journal of Physical Chemistry Letters, 2013, 4, 4213-4216.	4.6	675
13	Perovskite-Based Solar Cells. Science, 2013, 342, 317-318.	12.6	731
14	Plasmonic Structure Enhanced Exciton Generation at the Interface between the Perovskite Absorber and Copper Nanoparticles. Scientific World Journal, The, 2014, 2014, 1-6.	2.1	14
15	Synergistic Microbial Consortium for Bioenergy Generation from Complex Natural Energy Sources. Scientific World Journal, The, 2014, 2014, 1-5.	2.1	1
16	Rutherford Backscattering Spectroscopy of Mass Transport by Transformation of PbI ₂ into CH ₃ NH ₃ PbI ₃ within np-TiO ₂ . Hybrid Materials, 2014, 1, .	0.7	3
17	Optical properties of organometallic perovskite: An ab initio study using relativistic GW correction and Bethe-Salpeter equation. Europhysics Letters, 2014, 108, 67015.	2.0	47
18	Calcium manganate: A promising candidate as buffer layer for hybrid halide perovskite photovoltaic-thermoelectric systems. Journal of Applied Physics, 2014, 116, 194901.	2.5	8
19	band gap of the hybrid organic-inorganic perovskite Effect of spin-orbit interaction, semicore electrons, an. Physical Review B, 2014, 90, .	3.2	126
20	Density Functional Theory Simulations of Semiconductors for Photovoltaic Applications: Hybrid Organic-Inorganic Perovskites and III/V Heterostructures. International Journal of Photoenergy, 2014, 2014, 1-11.	2.5	23
21	Ultrafast charge generation, high and balanced charge carrier mobilities in organo halide perovskite solar cell. , 2014, , .		2
22	Perovskites and their Potential use in Solar Energy Applications. Science Progress, 2014, 97, 279-287.	1.9	12
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25	Steric engineering of metal-halide perovskites with tunable optical band gaps. Nature Communications, 2014, 5, 5757.	12.8	787
26	Lasing behaviors upon phase transition in solution-processed perovskite thin films. Applied Physics Letters, 2014, 105, .	3.3	59
27	Efficient methylammonium lead iodide perovskite solar cells with active layers from 300 to 900 nm. APL Materials, 2014, 2, .	5.1	118
29	Perovskite-based low-cost and high-efficiency hybrid halide solar cells. Photonics Research, 2014, 2, 111.	7.0	89

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30	Mechanical properties of hybrid organic-inorganic CH ₃ NH ₃ BX ₃ (B = Sn, Pb; X = Br, I) perovskites for solar cell absorbers. APL Materials, 2014, 2, .	5.1	293
31	Shallow halogen vacancies in halide optoelectronic materials. Physical Review B, 2014, 90, .	3.2	119
32	Fully crystalline perovskite-perylene hybrid photovoltaic cell capable of 1.2 V output with a minimized voltage loss. APL Materials, 2014, 2, .	5.1	37
33	Chloride in Lead Chloride-Derived Organo-Metal Halides for Perovskite-Absorber Solar Cells. Chemistry of Materials, 2014, 26, 7158-7165.	6.7	256
34	Ptâ€Ni Alloy Nanoparticles as Superior Counter Electrodes for Dyeâ€Sensitized Solar Cells: Experimental and Theoretical Understanding. Advanced Materials, 2014, 26, 8101-8106.	21.0	149
35	An easy-to-fabricate low-temperature TiO ₂ electron collection layer for high efficiency planar heterojunction perovskite solar cells. APL Materials, 2014, 2, .	5.1	99
36	CH ₃ NH ₃ PbI ₃ -Based Planar Solar Cells with Magnetron-Sputtered Nickel Oxide. ACS Applied Materials & Interfaces, 2014, 6, 22862-22870.	8.0	214
37	Moisture assisted perovskite film growth for high performance solar cells. Applied Physics Letters, 2014, 105, .	3.3	667
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39	Parameters influencing the deposition of methylammonium lead halide iodide in hole conductor free perovskite-based solar cells. APL Materials, 2014, 2, .	5.1	93
40	Tuning the Light Emission Properties by Band Gap Engineering in Hybrid Lead Halide Perovskite. Journal of the American Chemical Society, 2014, 136, 17730-17733.	13.7	546
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43	Efficient perovskite solar cells based on low-temperature solution-processed (CH ₃ NH ₃)PbI ₃ perovskite/CuInS ₂ planar heterojunctions. Nanoscale Research Letters, 2014, 9, 457.	5.7	22
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49	Mixed solvents for the optimization of morphology in solution-processed, inverted-type perovskite/fullerene hybrid solar cells. <i>Nanoscale</i> , 2014, 6, 6679.	5.6	275
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52	Simple Way to Engineer Metal-Semiconductor Interface for Enhanced Performance of Perovskite Organic Lead Iodide Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5651-5656.	8.0	93
53	Air-Exposure-Induced Gas-Molecule Incorporation into Spiro-MeOTAD Films. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1374-1379.	4.6	96
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56	A swivel-cruciform thiophene based hole-transporting material for efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6305-6309.	10.3	167
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64	Control of Charge Dynamics through a Charge-Separation Interface for All-Solid Perovskite-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2014, 15, 1062-1069.	2.1	73
65	Additive Enhanced Crystallization of Solution-Processed Perovskite for Highly Efficient Planar-Heterojunction Solar Cells. <i>Advanced Materials</i> , 2014, 26, 3748-3754.	21.0	1,344
66	Stark Effect in Perovskite/TiO ₂ Solar Cells: Evidence of Local Interfacial Order. <i>Nano Letters</i> , 2014, 14, 2168-2174.	9.1	200

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74	Charge Trapping in Photovoltaically Active Perovskites and Related Halogenoplumbate Compounds. Journal of Physical Chemistry Letters, 2014, 5, 1066-1071.	4.6	106
75	Supramolecular Halogen Bond Passivation of Organic-Inorganic Halide Perovskite Solar Cells. Nano Letters, 2014, 14, 3247-3254.	9.1	651
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86	Synthesis of Organic-Inorganic Lead Halide Perovskite Nanoplatelets: Towards High-Performance Perovskite Solar Cells and Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2014, 2, 838-844.	7.3	363
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1378	Two methoxyaniline-substituted dibenzofuran derivatives as hole-transport materials for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5415-5422.	10.3	56

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1381	Ultrafast terahertz probe of photoexcited free charge carriers in organometal CH ₃ NH ₃ PbI ₃ perovskite thin film. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	19
1382	Efficient lead acetate sourced planar heterojunction perovskite solar cells with enhanced substrate coverage via one-step spin-coating. <i>Organic Electronics</i> , 2016, 33, 194-200.	2.6	48
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3402	Multi-dimensional anatase TiO ₂ materials: Synthesis and their application as efficient charge transporter in perovskite solar cells. <i>Solar Energy</i> , 2019, 184, 323-330.	6.1	35
3403	Reversible Dimensionality Tuning of Hybrid Perovskites with Humidity: Visualization and Application to Stable Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 3111-3117.	6.7	35
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3418	Room-Temperature Molten Salt for Facile Fabrication of Efficient and Stable Perovskite Solar Cells in Ambient Air. <i>CheM</i> , 2019, 5, 995-1006.	11.7	245
3419	The Dominant Energy Transport Pathway in Halide Perovskites: Photon Recycling or Carrier Diffusion?. <i>Advanced Energy Materials</i> , 2019, 9, 1900185.	19.5	85
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3428	Metal halide perovskite photodetectors: Material features and device engineering. <i>Chinese Physics B</i> , 2019, 28, 018502.	1.4	18
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