

# Ion Migration in Organometal Trihalide Perovskite and Efficiency and Stability

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Citation Report

#	ARTICLE	IF	CITATIONS
3	Emission Enhancement and Intermittency in Polycrystalline Organolead Halide Perovskite Films. <i>Molecules</i> , 2016, 21, 1081.	1.7	33
4	Airâ€Stable, Efficient Mixedâ€Cation Perovskite Solar Cells with Cu Electrode by Scalable Fabrication of Active Layer. <i>Advanced Energy Materials</i> , 2016, 6, 1600372.	10.2	275
5	Iodine Migration and Degradation of Perovskite Solar Cells Enhanced by Metallic Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5168-5175.	2.1	225
6	Three-Dimensional Optical Tomography and Correlated Elemental Analysis of Hybrid Perovskite Microstructures: An Insight into Defect-Related Lattice Distortion and Photoinduced Ion Migration. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5227-5234.	2.1	37
7	Toward Switchable Photovoltaic Effect via Tailoring Mobile Oxygen Vacancies in Perovskite Oxide Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 34590-34597.	4.0	32
8	The physics of photon induced degradation of perovskite solar cells. <i>AIP Advances</i> , 2016, 6, .	0.6	48
9	Evidence for ion migration in hybrid perovskite solar cells with minimal hysteresis. <i>Nature Communications</i> , 2016, 7, 13831.	5.8	616
10	Super-Resolution Luminescence Microspectroscopy Reveals the Mechanism of Photoinduced Degradation in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10711-10719.	1.5	127
11	Defect Passivation of Organicâ€Inorganic Hybrid Perovskites by Diammonium Iodide toward High-Performance Photovoltaic Devices. <i>ACS Energy Letters</i> , 2016, 1, 757-763.	8.8	317
12	Electric field induced reversible and irreversible photoluminescence responses in methylammonium lead iodide perovskite. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9060-9068.	2.7	77
13	Influence of the mixed organic cation ratio in lead iodide based perovskite on the performance of solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27148-27157.	1.3	75
14	Recent progress on stability issues of organicâ€inorganic hybrid lead perovskite-based solar cells. <i>RSC Advances</i> , 2016, 6, 89356-89366.	1.7	69
15	Ultrafast ion migration in hybrid perovskite polycrystalline thin films under light and suppression in single crystals. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 30484-30490.	1.3	322
16	Chemical instability leads to unusual chemical-potential-independent defect formation and diffusion in perovskite solar cell material CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Journal of Materials Chemistry A</i> , 2016, 4, 16975-16981.	5.2	67
17	Photon Driven Transformation of Cesium Lead Halide Perovskites from Fewâ€Monolayer Nanoplatelets to Bulk Phase. <i>Advanced Materials</i> , 2016, 28, 10637-10643.	11.1	130
18	PbI <sub>2</sub> â€HMPA Complex Pretreatment for Highly Reproducible and Efficient CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 14380-14387.	6.6	107
19	Observation of Enhanced Hole Extraction in Br Concentration Gradient Perovskite Materials. <i>Nano Letters</i> , 2016, 16, 5756-5763.	4.5	91
20	Fast self-diffusion of ions in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> : the interstitially mechanism versus vacancy-assisted mechanism. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13105-13112.	5.2	74

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26	Crystalline Intermediates and Their Transformation Kinetics during the Formation of Methylammonium Lead Halide Perovskite Thin Films. <i>Chemistry of Materials</i> , 2016, 28, 9041-9048.	3.2	29
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