

Dounya Barrit

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,978
citations

471509

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docs citations

24
times ranked

3065
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable High-Performance Perovskite Solar Cells via Grain Boundary Passivation. <i>Advanced Materials</i> , 2018, 30, e1706576.	21.0	665
2	High performance ambient-air-stable FAPbI_3 perovskite solar cells with molecule-passivated Ruddlesden-Popper/3D heterostructured film. <i>Energy and Environmental Science</i> , 2018, 11, 3358-3366.	30.8	196
3	Dynamical Transformation of Two-Dimensional Perovskites with Alternating Cations in the Interlayer Space for High-Performance Photovoltaics. <i>Journal of the American Chemical Society</i> , 2019, 141, 2684-2694.	13.7	189
4	Interfacial Engineering at the 2D/3D Heterojunction for High-Performance Perovskite Solar Cells. <i>Nano Letters</i> , 2019, 19, 7181-7190.	9.1	163
5	Multi-cation Synergy Suppresses Phase Segregation in Mixed-Halide Perovskites. <i>Joule</i> , 2019, 3, 1746-1764.	24.0	159
6	Scalable Ambient Fabrication of High-Performance CsPbI_2Br Solar Cells. <i>Joule</i> , 2019, 3, 2485-2502.	24.0	124
7	Kinetic Stabilization of the Sol-Gel State in Perovskites Enables Facile Processing of High-Efficiency Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1808357.	21.0	76
8	Ambient blade coating of mixed cation, mixed halide perovskites without dripping: <i>in situ</i> investigation and highly efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1095-1104.	10.3	68
9	Improved Morphology and Efficiency of $\text{n}^+\text{i}^{\text{p}}$ Planar Perovskite Solar Cells by Processing with Glycol Ether Additives. <i>ACS Energy Letters</i> , 2017, 2, 1960-1968.	17.4	47
10	Impact of the Solvation State of Lead Iodide on Its Two-Step Conversion to MAPbI_3 : An In Situ Investigation. <i>Advanced Functional Materials</i> , 2019, 29, 1807544.	14.9	45
11	Bismuth-Based Perovskite-Inspired Solar Cells: In Situ Diagnostics Reveal Similarities and Differences in the Film Formation of Bismuth- and Lead-Based Films. <i>Solar Rrl</i> , 2019, 3, 1800305.	5.8	41
12	Room-Temperature Partial Conversion of $\text{I}^{\pm}\text{FAPbI}_3$ Perovskite Phase via PbI_2 Solvation Enables High-Performance Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 1907442.	14.9	41
13	Wide and Tunable Bandgap $\text{MAPbBr}_3\text{xCl}_x$ Hybrid Perovskites with Enhanced Phase Stability: In Situ Investigation and Photovoltaic Devices. <i>Solar Rrl</i> , 2021, 5, 2000718.	5.8	32
14	<i>In situ</i> study of the film formation mechanism of organic-inorganic hybrid perovskite solar cells: controlling the solvate phase using an additive system. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7695-7703.	10.3	29
15	Hybrid perovskite solar cells: <i>In situ</i> investigation of solution-processed PbI_2 reveals metastable precursors and a pathway to producing porous thin films. <i>Journal of Materials Research</i> , 2017, 32, 1899-1907.	2.6	26
16	Efficient Hybrid Mixed-Ion Perovskite Photovoltaics: In Situ Diagnostics of the Roles of Cesium and Potassium Alkali Cation Addition. <i>Solar Rrl</i> , 2020, 4, 2000272.	5.8	19
17	Perovskite Solar Cells toward Eco-Friendly Printing. <i>Research</i> , 2021, 2021, 9671892.	5.7	18
18	Sequential Formation of Tunable Bandgap Mixed-Halide Lead-Based Perovskites: In Situ Investigation and Photovoltaic Devices. <i>Solar Rrl</i> , 2021, 5, .	5.8	15

#	ARTICLE	IF	CITATIONS
19	Impact of Residual Lead Iodide on Photophysical Properties of Lead Triiodide Perovskite Solar Cells. Energy Technology, 2020, 8, 1900627.	3.8	10
20	Mini-review on all-inorganic lead-based perovskite solar cells: challenges and opportunities for production and upscaling. Emergent Materials, 2022, 5, 207-225.	5.7	6
21	Processing of Lead Halide Perovskite Thin Films Studied with In-Situ Real-Time X-ray Scattering. ACS Applied Materials & Interfaces, 2022, 14, 26315-26326.	8.0	5
22	Ralos car: Solar powered car with a hybrid backup system. , 2012, , .		3
23	In Situ Investigation and Photovoltaic Devices: Sequential Formation of Tunable-Bandgap Mixed-Halide Lead-based Perovskites. , 0, , .		1
24	Deposition of transparent Aluminum Oxide (Al_2O_3) films on silvered CSP mirrors. , 2014, , .		0