

Zhenghong Dai

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,977
citations

516710

16
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

2660
citing authors

#	ARTICLE	IF	CITATIONS
1	Delineation and Passivation of Grain-Boundary Channels in Metal Halide Perovskite Thin Films for Solar Cells. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	4
2	Time-resolved vibrational-pump visible-probe spectroscopy for thermal conductivity measurement of metal-halide perovskites. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	5
3	Lead-Free Flexible Perovskite Solar Cells with Interfacial Native Oxide Have >10% Efficiency and Simultaneously Enhanced Stability and Reliability. <i>ACS Energy Letters</i> , 2022, 7, 2256-2264.	17.4	19
4	Correlations between Electrochemical Ion Migration and Anomalous Device Behaviors in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 1003-1014.	17.4	39
5	Interpenetrating interfaces for efficient perovskite solar cells with high operational stability and mechanical robustness. <i>Nature Communications</i> , 2021, 12, 973.	12.8	189
6	High-performance methylammonium-free ideal-band-gap perovskite solar cells. <i>Matter</i> , 2021, 4, 1365-1376.	10.0	51
7	Real-Time Investigation of Sn(II) Oxidation in Pb-Free Halide Perovskites by X-ray Absorption and Mössbauer Spectroscopy. <i>ACS Applied Energy Materials</i> , 2021, 4, 4327-4332.	5.1	9
8	Interfacial toughening with self-assembled monolayers enhances perovskite solar cell reliability. <i>Science</i> , 2021, 372, 618-622.	12.6	313
9	Flexible perovskite solar cells with simultaneously improved efficiency, operational stability, and mechanical reliability. <i>Joule</i> , 2021, 5, 1587-1601.	24.0	120
10	Sub-1.4eV bandgap inorganic perovskite solar cells with long-term stability. <i>Nature Communications</i> , 2020, 11, 151.	12.8	92
11	Arrays of Plasmonic Nanostructures for Absorption Enhancement in Perovskite Thin Films. <i>Nanomaterials</i> , 2020, 10, 1342.	4.1	13
12	Mechanisms of exceptional grain growth and stability in formamidinium lead triiodide thin films for perovskite solar cells. <i>Acta Materialia</i> , 2020, 193, 10-18.	7.9	27
13	High-Performance Lead-Free Solar Cells Based on Tin-Halide Perovskite Thin Films Functionalized by a Divalent Organic Cation. <i>ACS Energy Letters</i> , 2020, 5, 2223-2230.	17.4	96
14	Facile healing of cracks in organic-inorganic halide perovskite thin films. <i>Acta Materialia</i> , 2020, 187, 112-121.	7.9	51
15	Effect of Grain Size on the Fracture Behavior of Organic-Inorganic Halide Perovskite Thin Films for Solar Cells. <i>Scripta Materialia</i> , 2020, 185, 47-50.	5.2	32
16	Quantum-Dot-Induced Cesium-Rich Surface Imparts Enhanced Stability to Formamidinium Lead Iodide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2019, 4, 1970-1975.	17.4	82
17	Lead-Free Dion-Jacobson Tin Halide Perovskites for Photovoltaics. <i>ACS Energy Letters</i> , 2019, 4, 276-277.	17.4	101
18	Tuning Molecular Interactions for Highly Reproducible and Efficient Formamidinium Perovskite Solar Cells via Adduct Approach. <i>Journal of the American Chemical Society</i> , 2018, 140, 6317-6324.	13.7	338

#	ARTICLE	IF	CITATIONS
19	The role of grain boundaries in perovskite solar cells. <i>Materials Today Energy</i> , 2018, 7, 149-160.	4.7	209
20	Surface Ligand Management for Stable FAPbI ₃ Perovskite Quantum Dot Solar Cells. <i>Joule</i> , 2018, 2, 1866-1878.	24.0	187
21	Fracture Behavior of Organic-Inorganic Halide Perovskite Thin Films for Solar Cells. , 0, , .		0