

Ashish Kulkarni

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

3,624
citations

393982

19
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610482

24
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24
all docs

24
docs citations

24
times ranked

5078
citing authors

#	ARTICLE	IF	CITATIONS
1	Halide Perovskite Photovoltaics: Background, Status, and Future Prospects. <i>Chemical Reviews</i> , 2019, 119, 3036-3103.	23.0	2,009
2	Effect of Electron Transporting Layer on Bismuth-Based Lead-Free Perovskite (CH ₃ NH ₃) ₃ Bi ₂ I ₉ for Photovoltaic Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14542-14547.	4.0	270
3	Stabilization of $\text{CH}_3\text{NH}_3\text{PbI}_3$ in Ambient Room Temperature Conditions by Incorporating Eu into $\text{CH}_3\text{NH}_3\text{PbI}_3$. <i>Chemistry of Materials</i> , 2018, 30, 6668-6674.	3.2	199
4	Perovskite Solar Cells: Can We Go Organic-Free, Lead-Free, and Dopant-Free?. <i>Advanced Energy Materials</i> , 2020, 10, 1902500.	10.2	198
5	Poly(4-vinylpyridine)-Based Interfacial Passivation to Enhance Voltage and Moisture Stability of Lead Halide Perovskite Solar Cells. <i>ChemSusChem</i> , 2017, 10, 2473-2479.	3.6	157
6	An open-access database and analysis tool for perovskite solar cells based on the FAIR data principles. <i>Nature Energy</i> , 2022, 7, 107-115.	19.8	136
7	Lead(II) Propionate Additive and a Dopant-Free Polymer Hole Transport Material for $\text{CH}_3\text{NH}_3\text{PbBr}_2$ Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 1292-1299.	8.8	81
8	Photovoltaic enhancement of bismuth halide hybrid perovskite by N-methyl pyrrolidone-assisted morphology conversion. <i>RSC Advances</i> , 2017, 7, 9456-9460.	1.7	80
9	Understanding the interplay of stability and efficiency in A-site engineered lead halide perovskites. <i>APL Materials</i> , 2020, 8, .	2.2	57
10	Performance enhancement of AgBi_2I_7 solar cells by modulating a solvent-mediated adduct and tuning remnant BiI_3 in one-step crystallization. <i>Chemical Communications</i> , 2019, 55, 4031-4034.	2.2	54
11	Steady state performance, photo-induced performance degradation and their relation to transient hysteresis in perovskite solar cells. <i>Journal of Power Sources</i> , 2016, 309, 1-10.	4.0	49
12	Revealing and reducing the possible recombination loss within TiO ₂ compact layer by incorporating MgO layer in perovskite solar cells. <i>Solar Energy</i> , 2016, 136, 379-384.	2.9	48
13	Investigating the Growth of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Thin Films on RF-Sputtered NiO _x for Inverted Planar Perovskite Solar Cells: Effect of CH_3NH_3 Halide Additives versus CH_3NH_3 Halide Vapor Annealing. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901749.	1.9	48
14	Vapor Annealing Controlled Crystal Growth and Photovoltaic Performance of Bismuth Triiodide Embedded in Mesoporous Configurations. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9547-9554.	4.0	45
15	Low-temperature and Ambient Air Processes of Amorphous SnO _x -based Mixed Halide Perovskite Planar Solar Cell. <i>Chemistry Letters</i> , 2017, 46, 382-384.	0.7	28
16	Concerted Ion Migration and Diffusion-Induced Degradation in Lead-Free Ag_3BiI_6 Ruddersite Solar Cells under Ambient Conditions. <i>Solar Rrl</i> , 2021, 5, 2100077.	3.1	28
17	A single-phase brookite TiO ₂ nanoparticle bridge enhances the stability of perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2009-2017.	2.5	25
18	Passivation of Bulk and Interface Defects in Sputtered-NiO _x -Based Planar Perovskite Solar Cells: A Facile Interfacial Engineering Strategy with Alkali Metal Halide Salts. <i>ACS Applied Energy Materials</i> , 2021, 4, 4530-4540.	2.5	25

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19	Residual PbI_2 Beneficial in the Bulk or at the Interface? An Investigation Study in Sputtered NiO_x Hole-Transport-Layer-Based Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 6215-6221.	2.5	24
20	Single- or double A-site cations in $\text{A}_3\text{Bi}_2\text{I}_9$ bismuth perovskites: What is the suitable choice?. Journal of Materials Research, 2021, 36, 1794-1804.	1.2	20
21	Bismuth-based halide perovskite and perovskite-inspired light absorbing materials for photovoltaics. Journal Physics D: Applied Physics, 2022, 55, 113002.	1.3	17
22	Solid-State Thin-Film Dye-Sensitized Solar Cell Co-Sensitized with Methylammonium Lead Bromide Perovskite. Bulletin of the Chemical Society of Japan, 2018, 91, 754-760.	2.0	14
23	Tetrahydrofuran as an Oxygen Donor Additive to Enhance Stability and Reproducibility of Perovskite Solar Cells Fabricated in High Relative Humidity (50%) Atmosphere. Energy Technology, 2020, 8, 1900990.	1.8	6
24	Tantalum Oxide as an Efficient Alternative Electron Transporting Layer for Perovskite Solar Cells. Nanomaterials, 2022, 12, 780.	1.9	6