

Ashish Kulkarni

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

3,624
citations

393982

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610482

24
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24
docs citations

24
times ranked

5078
citing authors

#	ARTICLE	IF	CITATIONS
1	Bismuth-based halide perovskite and perovskite-inspired light absorbing materials for photovoltaics. Journal Physics D: Applied Physics, 2022, 55, 113002.	1.3	17
2	Tantalum Oxide as an Efficient Alternative Electron Transporting Layer for Perovskite Solar Cells. Nanomaterials, 2022, 12, 780.	1.9	6
3	An open-access database and analysis tool for perovskite solar cells based on the FAIR data principles. Nature Energy, 2022, 7, 107-115.	19.8	136
4	Single- or double A-site cations in A ₃ Bi ₂ I ₉ bismuth perovskites: What is the suitable choice?. Journal of Materials Research, 2021, 36, 1794-1804.	1.2	20
5	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. ACS Applied Energy Materials, 2021, 4, 4530-4540.	2.5	25
6	Concerted Ion Migration and Diffusion-Induced Degradation in Lead-Free Ag ₃ Bi ₆ Rudorffite Solar Cells under Ambient Conditions. Solar Rrl, 2021, 5, 2100077.	3.1	28
7	Perovskite Solar Cells: Can We Go Organic-Free, Lead-Free, and Dopant-Free?. Advanced Energy Materials, 2020, 10, 1902500.	10.2	198
8	Investigating the Growth of CH ₃ NH ₃ Pb ₃ Thin Films on RF-Sputtered NiO _x for Inverted Planar Perovskite Solar Cells: Effect of CH ₃ NH ₃ ⁺ Halide Additives versus CH ₃ NH ₃ ⁺ Halide Vapor Annealing. Advanced Materials Interfaces, 2020, 7, 1901748.	1.9	48
9	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
10	Residual Pb 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
11	Lead(II) Propionate Additive and a Dopant-Free Polymer Hole Transport Material for CsPb ₂ Br Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 1292-1299.	8.8	81
12	Understanding the interplay of stability and efficiency in A-site engineered lead halide perovskites. APL Materials, 2020, 8, .	2.2	57
13	A single-phase brookite TiO ₂ nanoparticle bridge enhances the stability of perovskite solar cells. Sustainable Energy and Fuels, 2020, 4, 2009-2017.	2.5	25
14	Performance enhancement of AgBi ₂ I ₇ solar cells by modulating a solvent-mediated adduct and tuning remnant Bi ₃ in one-step crystallization. Chemical Communications, 2019, 55, 4031-4034.	2.2	54
15	Halide Perovskite Photovoltaics: Background, Status, and Future Prospects. Chemical Reviews, 2019, 119, 3036-3103.	23.0	2,009
16	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
17	Vapor Annealing Controlled Crystal Growth and Photovoltaic Performance of Bismuth Triiodide Embedded in Mesostructured Configurations. ACS Applied Materials & Interfaces, 2018, 10, 9547-9554.	4.0	45
18	Stabilization of δ -CsPb ₃ in Ambient Room Temperature Conditions by Incorporating Eu into CsPb ₃ . Chemistry of Materials, 2018, 30, 6668-6674.	3.2	199

#	ARTICLE	IF	CITATIONS
19	Photovoltaic enhancement of bismuth halide hybrid perovskite by N-methyl pyrrolidone-assisted morphology conversion. RSC Advances, 2017, 7, 9456-9460.	1.7	80
20	Poly(4-vinylpyridine)-Based Interfacial Passivation to Enhance Voltage and Moisture Stability of Lead Halide Perovskite Solar Cells. ChemSusChem, 2017, 10, 2473-2479.	3.6	157
21	Low-temperature and Ambient Air Processes of Amorphous SnO _x -based Mixed Halide Perovskite Planar Solar Cell. Chemistry Letters, 2017, 46, 382-384.	0.7	28
22	Effect of Electron Transporting Layer on Bismuth-Based Lead-Free Perovskite (CH ₃ NH ₃) ₃ Bi ₂ I ₉ for Photovoltaic Applications. ACS Applied Materials & Interfaces, 2016, 8, 14542-14547.	4.0	270
23	Revealing and reducing the possible recombination loss within TiO ₂ compact layer by incorporating MgO layer in perovskite solar cells. Solar Energy, 2016, 136, 379-384.	2.9	48
24	Steady state performance, photo-induced performance degradation and their relation to transient hysteresis in perovskite solar cells. Journal of Power Sources, 2016, 309, 1-10.	4.0	49