Xiaoyu Deng

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/10589263/publications.pdf

Version: 2024-02-01

20 papers	879 citations	567281 15 h-index	839539 18 g-index
20 all docs	20 docs citations	20 times ranked	1432 citing authors

#	Article	IF	Citations
1	Lewis acid/base approach for efficacious defect passivation in perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 12201-12225.	10.3	149
2	Emerging alkali metal ion (Li⁺, Na⁺, K⁺ and Rb⁺) doped perovskite films for efficient solar cells: recent advances and prospects. Journal of Materials Chemistry A, 2019, 7, 24150-24163.	10.3	116
3	Understanding the Formation of Vertical Orientation in Two-dimensional Metal Halide Perovskite Thin Films. Chemistry of Materials, 2019, 31, 1336-1343.	6.7	93
4	Ionic liquids engineering for high-efficiency and stable perovskite solar cells. Chemical Engineering Journal, 2020, 398, 125594.	12.7	85
5	Ionic liquid reducing energy loss and stabilizing CsPbI2Br solar cells. Nano Energy, 2021, 81, 105631.	16.0	71
6	Metal oxide alternatives for efficient electron transport in perovskite solar cells: beyond TiO₂ and SnO₂. Journal of Materials Chemistry A, 2020, 8, 19768-19787.	10.3	60
7	Coordination modulated crystallization and defect passivation in high quality perovskite film for efficient solar cells. Coordination Chemistry Reviews, 2020, 420, 213408.	18.8	51
8	Room-Temperature Processing of TiO_x Electron Transporting Layer for Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2017, 8, 3206-3210.	4.6	36
9	Insights into Ultrafast Carrier Dynamics in Perovskite Thin Films and Solar Cells. ACS Photonics, 2020, 7, 1893-1907.	6.6	34
10	Low-cost coenzyme Q10 as an efficient electron transport layer for inverted perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 18626-18633.	10.3	33
11	Precise control of PbI2 excess into grain boundary for efficacious charge extraction in off-stoichiometric perovskite solar cells. Electrochimica Acta, 2020, 338, 135697.	5.2	25
12	Secondary lateral growth of MAPbI₃ grains for the fabrication of efficient perovskite solar cells. Journal of Materials Chemistry C, 2020, 8, 3217-3225.	5.5	24
13	Impact of Crystallographic Orientation Disorders on Electronic Heterogeneities in Metal Halide Perovskite Thin Films. Nano Letters, 2018, 18, 6271-6278.	9.1	22
14	Laser Annealing of TiO₂ Electron-Transporting Layer in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 41312-41317.	8.0	20
15	Benzotriazole derivative inhibits nonradiative recombination and improves the UV-stability of inverted MAPbI3 perovskite solar cells. Journal of Energy Chemistry, 2022, 65, 592-599.	12.9	18
16	Tetrazole modulated perovskite films for efficient solar cells with improved moisture stability. Chemical Engineering Journal, 2021, 420, 127579.	12.7	14
17	Aqueous solvent-regulated crystallization and interfacial modification in perovskite solar cells with enhanced stability and performance. Journal of Power Sources, 2020, 471, 228447.	7.8	13
18	Relationship between the Nature of Monovalent Cations and Charge Recombination in Metal Halide Perovskites. ACS Applied Energy Materials, 2020, 3, 1298-1304.	5.1	11

#	Article	IF	Citations
19	Silicon Surface Passivation by Laser Processing a Solâ€“Gel TiO_x Thin Film. ACS Applied Energy Materials, 0, , .	5.1	4
20	Improving the hole extraction by hexadecylbenzene modification for efficient perovskite solar cells. IOP Conference Series: Earth and Environmental Science, 2021, 781, 042042.	0.3	0