Muhammad Azam

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9493607/publications.pdf

Version: 2024-02-01

28 papers	672 citations	623734 14 h-index	552781 26 g-index
28 all docs	28 docs citations	28 times ranked	1097 citing authors

#	Article	IF	Citations
1	Efficacious engineering on charge extraction for realizing highly efficient perovskite solar cells. Energy and Environmental Science, 2017, 10, 2570-2578.	30.8	155
2	Turning a disadvantage into an advantage: synthesizing high-quality organometallic halide perovskite nanosheet arrays for humidity sensors. Journal of Materials Chemistry C, 2017, 5, 2504-2508.	5.5	74
3	Quasi-Vertically Oriented Sb₂Se₃ Thin-Film Solar Cells with Open-Circuit Voltage Exceeding 500 mV Prepared via Close-Space Sublimation and Selenization. ACS Applied Materials & Interfaces, 2021, 13, 46671-46680.	8.0	48
4	Highly efficient solar cells based on Cl incorporated tri-cation perovskite materials. Journal of Materials Chemistry A, 2018, 6, 13725-13734.	10.3	43
5	Insights into the Influence of Work Functions of Cathodes on Efficiencies of Perovskite Solar Cells. Small, 2017, 13, 1700007.	10.0	36
6	Insights into Charge Separation and Transport in Ternary Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 3299-3307.	8.0	35
7	Realization of Perovskiteâ€Nanowireâ€Based Plasmonic Lasers Capable of Mode Modulation. Laser and Photonics Reviews, 2019, 13, 1800306.	8.7	32
8	High Openâ€Circuit Voltage in Fullâ€Inorganic Sb₂S₃ Solar Cell via Modified Znâ€Doped TiO₂ Electron Transport Layer. Solar Rrl, 2020, 4, 2000551.	5.8	29
9	Bandgap engineering of lead-free ternary halide perovskites for photovoltaics and beyond: Recent progress and future prospects. Nano Energy, 2022, 92, 106710.	16.0	27
10	Triple cation perovskite doped with the small molecule F4TCNQ for highly efficient stable photodetectors. Journal of Materials Chemistry C, 2020, 8, 2880-2887.	5.5	24
11	Examining the Interfacial Defect Passivation with Chlorinated Organic Salt for Highly Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000358.	5.8	19
12	The Positive Function of Incorporation of Small Molecules into Perovskite Materials for Highâ€Efficient Stable Solar Cells. Solar Rrl, 2019, 3, 1800327.	5.8	16
13	Organic Chloride Salt Interfacial Modified Crystallization for Efficient Antimony Selenosulfide Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 4276-4284.	8.0	16
14	Recent advances in defect passivation of perovskite active layer via additive engineering: a review. Journal Physics D: Applied Physics, 2020, 53, 183002.	2.8	15
15	A wrinkled structure with broadband and omnidirectional light-trapping abilities for improving the performance of organic solar cells with low defect density. Nanoscale, 2019, 11, 22467-22474.	5.6	14
16	Collection optimization of photo-generated charge carriers for efficient organic solar cells. Journal of Power Sources, 2019, 412, 465-471.	7.8	14
17	Insights on the correlation of precursor solution, morphology of the active layer and performance of the pervoskite solar cells. Journal of Alloys and Compounds, 2018, 731, 375-380.	5.5	12
18	Wrinkled substrate and Indium Tin Oxide-free transparent electrode making organic solar cells thinner in active layer. Journal of Power Sources, 2016, 331, 43-49.	7.8	11

#	Article	IF	Citations
19	The route and optimization of charge transport in ternary organic solar cells based on O6T-4F and PC71BM as acceptors. Journal of Power Sources, 2020, 449, 227583.	7.8	11
20	Realization of Moisture-Resistive Perovskite Films for Highly Efficient Solar Cells Using Molecule Incorporation. ACS Applied Materials & Interfaces, 2020, 12, 39063-39073.	8.0	11
21	Near-band-edge emission enhancement and suppression of the deep levels in Ga-doped ZnO via surface plasmon-exciton coupling without a dielectric spacer. Journal of Materials Science: Materials in Electronics, 2019, 30, 20544-20550.	2.2	6
22	Large photoluminescence enhancement in mechanical-exfoliated one-dimensional ZnO nanorods. Journal of Materials Science: Materials in Electronics, 2019, 30, 5170-5176.	2.2	6
23	Low Dark Current and Performance Enhanced Perovskite Photodetector by Graphene Oxide as an Interfacial Layer. Nanomaterials, 2022, 12, 190.	4.1	6
24	Multiple-engineering controlled growth of tunable-bandgap perovskite nanowires for high performance photodetectors. RSC Advances, 2019, 9, 19772-19779.	3.6	5
25	Energy band alignment for Cd-free antimony triselenide substrate structured solar cells by Co-sputtering ZnSnO buffer layer. Solar Energy Materials and Solar Cells, 2022, 240, 111721.	6.2	5
26	Insight into the Influence of Cl Incorporation into Lead-Halide Perovskite Materials: A Review. Journal of Nanoscience and Nanotechnology, 2018, 18, 7335-7348.	0.9	1
27	The Positive Function of Incorporation of Small Molecules into Perovskite Materials for High-Efficient Stable Solar Cells (Solar RRL 3â•2019). Solar Rrl, 2019, 3, 1970034.	5.8	1
28	Mode Modulation: Realization of Perovskiteâ€Nanowireâ€Based Plasmonic Lasers Capable of Mode Modulation (Laser Photonics Rev. 13(7)/2019). Laser and Photonics Reviews, 2019, 13, 1970029.	8.7	0