

Muhammad Azam

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

672
citations

623734

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docs citations

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1097
citing authors

#	ARTICLE	IF	CITATIONS
1	Bandgap engineering of lead-free ternary halide perovskites for photovoltaics and beyond: Recent progress and future prospects. <i>Nano Energy</i> , 2022, 92, 106710.	16.0	27
2	Organic Chloride Salt Interfacial Modified Crystallization for Efficient Antimony Selenosulfide Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4276-4284.	8.0	16
3	Low Dark Current and Performance Enhanced Perovskite Photodetector by Graphene Oxide as an Interfacial Layer. <i>Nanomaterials</i> , 2022, 12, 190.	4.1	6
4	Energy band alignment for Cd-free antimony triselenide substrate structured solar cells by Co-sputtering ZnSnO buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2022, 240, 111721.	6.2	5
5	Quasi-Vertically Oriented Sb ₂ Se ₃ Thin-Film Solar Cells with Open-Circuit Voltage Exceeding 500 mV Prepared via Close-Space Sublimation and Selenization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46671-46680.	8.0	48
6	The route and optimization of charge transport in ternary organic solar cells based on O6T-4F and PC71BM as acceptors. <i>Journal of Power Sources</i> , 2020, 449, 227583.	7.8	11
7	High Open-Circuit Voltage in Full-Inorganic Sb ₂ S ₃ Solar Cell via Modified Zn-Doped TiO ₂ Electron Transport Layer. <i>Solar Rrl</i> , 2020, 4, 2000551.	5.8	29
8	Realization of Moisture-Resistive Perovskite Films for Highly Efficient Solar Cells Using Molecule Incorporation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39063-39073.	8.0	11
9	Examining the Interfacial Defect Passivation with Chlorinated Organic Salt for Highly Efficient and Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000358.	5.8	19
10	Triple cation perovskite doped with the small molecule F4TCNQ for highly efficient stable photodetectors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2880-2887.	5.5	24
11	Recent advances in defect passivation of perovskite active layer via additive engineering: a review. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 183002.	2.8	15
12	Mode Modulation: Realization of Perovskite Nanowire-Based Plasmonic Lasers Capable of Mode Modulation (<i>Laser Photonics Rev.</i> 13(7)/2019). <i>Laser and Photonics Reviews</i> , 2019, 13, 1970029.	8.7	0
13	Near-band-edge emission enhancement and suppression of the deep levels in Ga-doped ZnO via surface plasmon-exciton coupling without a dielectric spacer. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20544-20550.	2.2	6
14	Large photoluminescence enhancement in mechanical-exfoliated one-dimensional ZnO nanorods. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 5170-5176.	2.2	6
15	Multiple-engineering controlled growth of tunable-bandgap perovskite nanowires for high performance photodetectors. <i>RSC Advances</i> , 2019, 9, 19772-19779.	3.6	5
16	Realization of Perovskite Nanowire-Based Plasmonic Lasers Capable of Mode Modulation. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800306.	8.7	32
17	The Positive Function of Incorporation of Small Molecules into Perovskite Materials for High-Efficient Stable Solar Cells (<i>Solar RRL</i> 3â•2019). <i>Solar Rrl</i> , 2019, 3, 1970034.	5.8	1
18	The Positive Function of Incorporation of Small Molecules into Perovskite Materials for High-Efficient Stable Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1800327.	5.8	16

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19	A wrinkled structure with broadband and omnidirectional light-trapping abilities for improving the performance of organic solar cells with low defect density. <i>Nanoscale</i> , 2019, 11, 22467-22474.	5.6	14
20	Insights into Charge Separation and Transport in Ternary Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3299-3307.	8.0	35
21	Collection optimization of photo-generated charge carriers for efficient organic solar cells. <i>Journal of Power Sources</i> , 2019, 412, 465-471.	7.8	14
22	Insights on the correlation of precursor solution, morphology of the active layer and performance of the perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2018, 731, 375-380.	5.5	12
23	Insight into the Influence of Cl Incorporation into Lead-Halide Perovskite Materials: A Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 7335-7348.	0.9	1
24	Highly efficient solar cells based on Cl incorporated tri-cation perovskite materials. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13725-13734.	10.3	43
25	Turning a disadvantage into an advantage: synthesizing high-quality organometallic halide perovskite nanosheet arrays for humidity sensors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2504-2508.	5.5	74
26	Insights into the Influence of Work Functions of Cathodes on Efficiencies of Perovskite Solar Cells. <i>Small</i> , 2017, 13, 1700007.	10.0	36
27	Efficacious engineering on charge extraction for realizing highly efficient perovskite solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 2570-2578.	30.8	155
28	Wrinkled substrate and Indium Tin Oxide-free transparent electrode making organic solar cells thinner in active layer. <i>Journal of Power Sources</i> , 2016, 331, 43-49.	7.8	11