

Wangen Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,785
citations

361413

20
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

2352
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability of the CsPbI ₃ perovskite: from fundamentals to improvements. Journal of Materials Chemistry A, 2021, 9, 11124-11144.	10.3	78
2	Enhanced Efficiency of Inorganic CsPbI ₃ Perovskite Solar Cell via Self-Regulation of Antisite Defects. Advanced Energy Materials, 2021, 11, 2100403.	19.5	45
3	Defects in CsPbX ₃ Perovskite: From Understanding to Effective Manipulation for High-Performance Solar Cells. Small Methods, 2021, 5, e2100725.	8.6	37
4	Molten-Salt-Assisted CsPbI ₃ Perovskite Crystallization for Nearly 20% Efficiency Solar Cells. Advanced Materials, 2021, 33, e2103770.	21.0	81
5	Design of surface termination for high-performance perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 23597-23606.	10.3	25
6	Morphology Evolution of a High-Efficiency PSC by Modulating the Vapor Process. Small, 2020, 16, e2003582.	10.0	15
7	Mn Doping of CsPbI ₃ Film Towards High-Efficiency Solar Cell. ACS Applied Energy Materials, 2020, 3, 5190-5197.	5.1	56
8	A straightforward chemical approach for excellent In ₂ S ₃ electron transport layer for high-efficiency perovskite solar cells. RSC Advances, 2019, 9, 884-890.	3.6	21
9	Fabrication of a High-Quality Cu ₂ ZnSn(S,Se) ₄ Absorber Layer via an Aqueous Solution Process and Application in Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 634-639.	8.0	9
10	Alkali Metal Doping for Improved CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells. Advanced Science, 2018, 5, 1700131.	11.2	227
11	Path towards high-efficient kesterite solar cells. Journal of Energy Chemistry, 2018, 27, 1040-1053.	12.9	68
12	Low-Temperature-Processed CdS as the Electron Selective Layer in an Organometal Halide Perovskite Photovoltaic Device. Particle and Particle Systems Characterization, 2018, 35, 1800137.	2.3	4
13	Organic-Inorganic Hybrid Perovskite with Controlled Dopant Modification and Application in Photovoltaic Device. Small, 2017, 13, 1604153.	10.0	59
14	Graphene-oxide doped PEDOT:PSS as a superior hole transport material for high-efficiency perovskite solar cell. Organic Electronics, 2017, 48, 165-171.	2.6	87
15	Solution-Processed Nb:SnO ₂ Electron Transport Layer for Efficient Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 2421-2429.	8.0	315
16	Local temperature reduction induced crystallization of MASn ₃ and achieving a direct wafer production. RSC Advances, 2017, 7, 38155-38159.	3.6	17
17	Zn-doping for reduced hysteresis and improved performance of methylammonium lead iodide perovskite hybrid solar cells. Materials Today Energy, 2017, 5, 205-213.	4.7	75
18	Fabrication of a Cu ₂ MnSn(S,Se) ₄ thin film based on a low-cost degradable solution process. CrystEngComm, 2016, 18, 4744-4748.	2.6	5

#	ARTICLE	IF	CITATIONS
19	Kesterite $\text{Cu}_2\text{Zn}(\text{Sn,Ge})(\text{S,Se})_4$ thin film with controlled Ge-doping for photovoltaic application. <i>Nanoscale</i> , 2016, 8, 10160-10165.	5.6	31
20	Solution-Processed Highly Efficient $\text{Cu}_2\text{ZnSnSe}_4$ Thin Film Solar Cells by Dissolution of Elemental Cu, Zn, Sn, and Se Powders. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 460-464.	8.0	69
21	Solution-processed $\text{Cu}_2\text{CdSn}(\text{S,Se})_4$ thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 133, 15-20.	6.2	61
22	Metal sulfide precursor aqueous solutions for fabrication of $\text{Cu}_2\text{ZnSn}(\text{S,Se})_4$ thin film solar cells. <i>Green Chemistry</i> , 2015, 17, 1269-1275.	9.0	68
23	Fabrication of $\text{Cu}_2\text{ZnSn}(\text{S,Se})_4$ Solar Cells via an Ethanol-Based Sol-Gel Route Using SnS_2 as Sn Source. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12650-12655.	8.0	51
24	Versatile and Low-Toxic Solution Approach to Binary, Ternary, and Quaternary Metal Sulfide Thin Films and Its Application in $\text{Cu}_2\text{ZnSn}(\text{S,Se})_4$ Solar Cells. <i>Chemistry of Materials</i> , 2014, 26, 3098-3103.	6.7	109
25	Fabrication of a $\text{Cu}_2\text{ZnSn}(\text{S,Se})_4$ Photovoltaic Device by a Low-Toxicity Ethanol Solution Process. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10042-10047.	8.0	130
26	Air-Stable, Low-Toxicity Precursors for $\text{CuIn}(\text{SeS})_2$ Solar Cells with 10.1% Efficiency. <i>Energy Technology</i> , 2013, 1, 131-134.	3.8	42