

Wangen Zhao

List of Publications by Year in descending order

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26
papers

1,785
citations

361413

20
h-index

552781

26
g-index

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all docs

26
docs citations

26
times ranked

2352
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Alkali Metal Doping for Improved CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells. Advanced Science, 2018, 5, 1700131.	11.2	227
3	Fabrication of a Cu ₂ ZnSn(S,Se) ₄ Photovoltaic Device by a Low-Toxicity Ethanol Solution Process. ACS Applied Materials & Interfaces, 2013, 5, 10042-10047.	8.0	130
4	Versatile and Low-Toxic Solution Approach to Binary, Ternary, and Quaternary Metal Sulfide Thin Films and Its Application in Cu ₂ ZnSn(S,Se) ₄ Solar Cells. Chemistry of Materials, 2014, 26, 3098-3103.	6.7	109
5	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
6	Molten-Salt-Assisted CsPbI ₃ Perovskite Crystallization for Nearly 20% Efficiency Solar Cells. Advanced Materials, 2021, 33, e2103770.	21.0	81
7	Stability of the CsPbI ₃ perovskite: from fundamentals to improvements. Journal of Materials Chemistry A, 2021, 9, 11124-11144.	10.3	78
8	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
9	Solution-Processed Highly Efficient Cu ₂ ZnSnSe ₄ Thin Film Solar Cells by Dissolution of Elemental Cu, Zn, Sn, and Se Powders. ACS Applied Materials & Interfaces, 2015, 7, 460-464.	8.0	69
10	Metal sulfide precursor aqueous solutions for fabrication of Cu ₂ ZnSn(S,Se) ₄ thin film solar cells. Green Chemistry, 2015, 17, 1269-1275.	9.0	68
11	Path towards high-efficient kesterite solar cells. Journal of Energy Chemistry, 2018, 27, 1040-1053.	12.9	68
12	Solution-processed Cu ₂ CdSn(S,Se) ₄ thin film solar cells. Solar Energy Materials and Solar Cells, 2015, 133, 15-20.	6.2	61
13	Organic-Inorganic Hybrid Perovskite with Controlled Dopant Modification and Application in Photovoltaic Device. Small, 2017, 13, 1604153.	10.0	59
14	Mn Doping of CsPbI ₃ Film Towards High-Efficiency Solar Cell. ACS Applied Energy Materials, 2020, 3, 5190-5197.	5.1	56
15	Fabrication of Cu ₂ ZnSn(S,Se) ₄ Solar Cells via an Ethanol-Based Sol-Gel Route Using SnS ₂ as Sn Source. ACS Applied Materials & Interfaces, 2014, 6, 12650-12655.	8.0	51
16	Enhanced Efficiency of Inorganic CsPbI ₃ Perovskite Solar Cell via Self-Regulation of Antisite Defects. Advanced Energy Materials, 2021, 11, 2100403.	19.5	45
17	Air-Stable, Low-Toxicity Precursors for CuIn(S,Se) ₂ Solar Cells with 10.1% Efficiency. Energy Technology, 2013, 1, 131-134.	3.8	42
18	Defects in CsPbX ₃ Perovskite: From Understanding to Effective Manipulation for High-Performance Solar Cells. Small Methods, 2021, 5, e2100725.	8.6	37

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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	Design of surface termination for high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23597-23606.	10.3	25
21	A straightforward chemical approach for excellent In_2S_3 electron transport layer for high-efficiency perovskite solar cells. <i>RSC Advances</i> , 2019, 9, 884-890.	3.6	21
22	Local temperature reduction induced crystallization of MASn_3 and achieving a direct wafer production. <i>RSC Advances</i> , 2017, 7, 38155-38159.	3.6	17
23	Morphology Evolution of a High-Efficiency PSC by Modulating the Vapor Process. <i>Small</i> , 2020, 16, e2003582.	10.0	15
24	Fabrication of a High-Quality $\text{Cu}_2\text{ZnSn}(\text{S,Se})_4$ Absorber Layer via an Aqueous Solution Process and Application in Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 634-639.	8.0	9
25	Fabrication of a $\text{Cu}_2\text{MnSn}(\text{S,Se})_4$ thin film based on a low-cost degradable solution process. <i>CrystEngComm</i> , 2016, 18, 4744-4748.	2.6	5
26	Low-Temperature-Processed CdS as the Electron Selective Layer in an Organometal Halide Perovskite Photovoltaic Device. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800137.	2.3	4