

Dae-Ho Son

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,070
citations

687363

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713466

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22
times ranked

925
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Metal-Precursor Stacking Order on Volume-Defect Formation in CZTSSe Thin Film: Formation Mechanism of Blisters and Nanopores. ACS Applied Materials & Interfaces, 2022, 14, 30649-30657.	8.0	4
2	Sodium Effects on the Diffusion, Phase, and Defect Characteristics of Kesterite Solar Cells and Flexible $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ with Greater than 11% Efficiency. Advanced Functional Materials, 2021, 31, 2102238.	14.9	36
3	Self-Alignment of Bottom CZTSSe by Patterning of an Al_2O_3 Intermediate Layer. Nanomaterials, 2020, 10, 43.	4.1	7
4	Effect of Al_2O_3 Dot Patterning on CZTSSe Solar Cell Characteristics. Nanomaterials, 2020, 10, 1874.	4.1	4
5	CZTSSe Formation Mechanism Using a Cu/Zn/SnS Stacked Precursor: Origin of Triple CZTSSe Layer Formation. ACS Applied Materials & Interfaces, 2020, 12, 46037-46044.	8.0	4
6	Effect of Cu-Sn-Se Liquid Phase on Grain Growth and Efficiency of CZTSSe Solar Cells. Advanced Energy Materials, 2020, 10, 1903173.	19.5	37
7	Flexible $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ solar cells with over 10% efficiency and methods of enlarging the cell area. Nature Communications, 2019, 10, 2959.	12.8	100
8	Secondary Phase Formation Mechanism in the Mo-Back Contact Region during Sulfo-Selenization Using a Metal Precursor: Effect of Wettability between a Liquid Metal and Substrate on Secondary Phase Formation. ACS Applied Materials & Interfaces, 2019, 11, 23160-23167.	8.0	23
9	Void and secondary phase formation mechanisms of CZTSSe using Sn/Cu/Zn/Mo stacked elemental precursors. Nano Energy, 2019, 59, 399-411.	16.0	61
10	Flexible high-efficiency CZTSSe solar cells on stainless steel substrates. Journal of Materials Chemistry A, 2019, 7, 24891-24899.	10.3	27
11	Effects of S and Se contents on the physical and photovoltaic properties of $\text{Cu}_2\text{ZnSn}(\text{S}_x\text{Se}_{1-x})_4$ thin films: achieving a PCE of 9.47%. Journal of Materials Chemistry A, 2019, 7, 22986-22995.	10.3	12
12	Effect of solid- H_2S gas reactions on CZTSSe thin film growth and photovoltaic properties of a 12.62% efficiency device. Journal of Materials Chemistry A, 2019, 7, 25279-25289.	10.3	229
13			

#	ARTICLE	IF	CITATIONS
19	Influence of precursor sulfur content on film formation and the properties of sulfurized $\text{Cu}_2\text{ZnSnS}_4$ thin films for solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 946-951.	1.8	20
20	Surface potential on grain boundaries and intragrain of highly efficient $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ thin-films grown by two-step sputtering process. <i>Solar Energy Materials and Solar Cells</i> , 2014, 127, 129-135.	6.2	63
21	Effect of ZnO Layer Thickness on Efficiency of $\text{Cu}(\text{In},\text{Ga})\text{Se}_2$ Thin-film Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 565, 52-58.	0.9	5