Kee-Jeong Yang

List of Publications by Year
in descending order

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24 papers	1,219 citations	516710 16 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	969 citing authors

#	Article	IF	Citations
1	Facile growth of a Sb₂Se₃ nanorod array induced by a MoSe₂ interlayer and its application in 3D pâ€“n junction solar cells. Materials Advances, 2022, 3, 978-985.	5.4	7
2	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
3	Sodium Effects on the Diffusion, Phase, and Defect Characteristics of Kesterite Solar Cells and Flexible Cu₂ZnSn(S,Se)₄ with Greater than 11% Efficiency. Advanced Functional Materials, 2021, 31, 2102238.	14.9	36
4	Atomic Layer Deposition of Ultrathin ZnO Films for Hybrid Window Layers for Cu(Inx,Ga1â^'x)Se2 Solar Cells. Nanomaterials, 2021, 11, 2779.	4.1	10
5	Self-Alignment of Bottom CZTSSe by Patterning of an Al2O3 Intermediate Layer. Nanomaterials, 2020, 10, 43.	4.1	7
6	Approach to Transparent Photovoltaics Based on Wide Band Gap Sb₂S₃ Absorber Layers and Optics-Based Device Optimization. ACS Applied Energy Materials, 2020, 3, 12644-12651.	5.1	25
7	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
8	Effect of Cuâ€“Snâ€“Se Liquid Phase on Grain Growth and Efficiency of CZTSSe Solar Cells. Advanced Energy Materials, 2020, 10, 1903173.	19.5	37
9	Carrier transport and surface potential over phase variations in the surface and bulk of highly efficient Cu₂ZnSn(S,Se)₄ solar cells. Progress in Photovoltaics: Research and Applications, 2020, 28, 382-392.	8.1	12
10	Flexible Cu2ZnSn(S,Se)4 solar cells with over 10% efficiency and methods of enlarging the cell area. Nature Communications, 2019, 10, 2959.	12.8	100
11	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
12	The characteristics of Cu(In, Ga)Se2 thin-film solar cells by bandgap grading. Journal of Industrial and Engineering Chemistry, 2019, 76, 437-442.	5.8	5
13	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
14	Controlled synthesis of (hk1) preferentially oriented Sb₂Se₃rod arrays by co-evaporation for photovoltaic applications. Journal of Materials Chemistry A, 2019, 7, 25900-25907.	10.3	34
15	Effect of solid-H₂S 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
16	High photo-conversion efficiency Cu2ZnSn(S,Se)4 thin-film solar cells prepared by compound-precursors and metal-precursors. Solar Energy Materials and Solar Cells, 2018, 183, 129-136.	6.2	26
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#	Article	IF	Citations
19	Precursor designs for Cu2ZnSn(S,Se)4 thin-film solar cells. Nano Energy, 2017, 35, 52-61.	16.0	32
20	Comparison of chalcopyrite and kesterite thin-film solar cells. Journal of Industrial and Engineering Chemistry, 2017, 45, 78-84.	5.8	23
21	A band-gap-graded CZTSSe solar cell with 12.3% efficiency. Journal of Materials Chemistry A, 2016, 4, 10151-10158.	10.3	260
22	Growth and Device Characteristics of CZTSSe Thin-Film Solar Cells with 8.03% Efficiency. Chemistry of Materials, 2015, 27, 5180-5188.	6.7	63
23	Effects of the compositional ratio distribution with sulfurization temperatures in the absorber layer on the defect and surface electrical characteristics of Cu₂ZnSnS₄ solar cells. Progress in Photovoltaics: Research and Applications, 2015, 23, 1771-1784.	8.1	64
24	Effects of Na and MoS₂ on Cu₂ZnSnS₄ thinâ€film solar cell. Progress in Photovoltaics: Research and Applications, 2015, 23, 862-873.	8.1	108