

Tayfun Gokmen

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

7,643
citations

279798

23
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580821

25
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28
all docs

28
docs citations

28
times ranked

4608
citing authors

#	ARTICLE	IF	CITATIONS
1	Device Characteristics of CZTSSe Thin-Film Solar Cells with 12.6% Efficiency. Advanced Energy Materials, 2014, 4, 1301465.	19.5	2,651
2	Beyond 11% Efficiency: Characteristics of State-of-the-Art $\text{Cu}_{2}\text{ZnSn}(\text{S},\text{Se})_{4}$ Solar Cells. Advanced Energy Materials, 2013, 3, 34-38.	19.5	922
3	Device characteristics of a 10.1% hydrazine-processed $\text{Cu}_{2}\text{ZnSn}(\text{Se},\text{S})_{4}$ solar cell. Progress in Photovoltaics: Research and Applications, 2012, 20, 6-11.	8.1	720
4	Band tailing and efficiency limitation in kesterite solar cells. Applied Physics Letters, 2013, 103, .	3.3	576
5	$\text{Cu}_{2}\text{ZnSnSe}_{4}$ Thin-Film Solar Cells by Thermal Co-Evaporation with 11.6% Efficiency and Improved Minority Carrier Diffusion Length. Advanced Energy Materials, 2015, 5, 1401372.	19.5	408
6	High Efficiency $\text{Cu}_{2}\text{ZnSn}(\text{S},\text{Se})_{4}$ Solar Cells by Applying a Double $\text{In}_{2}\text{S}_{3}/\text{CdS}$ Emitter. Advanced Materials, 2014, 26, 7427-7431.	21.0	400
7	Solution-processed $\text{Cu}(\text{In},\text{Ga})(\text{S},\text{Se})_{2}$ absorber yielding a 15.2% efficient solar cell. Progress in Photovoltaics: Research and Applications, 2013, 21, 82-87.	8.1	343
8	Low band gap liquid-processed CZTSe solar cell with 10.1% efficiency. Energy and Environmental Science, 2012, 5, 7060.	30.8	303
9	Electronic properties of the $\text{Cu}_{2}\text{ZnSn}(\text{Se},\text{S})_{4}$ absorber layer in solar cells as revealed by admittance spectroscopy and related methods. Applied Physics Letters, 2012, 100, .	3.3	194
10	Hydrazine-Processed Ge-Substituted CZTSe Solar Cells. Chemistry of Materials, 2012, 24, 4588-4593.	6.7	165
11	Electrodeposited $\text{Cu}_{2}\text{ZnSnSe}_{4}$ thin film solar cell with 7% power conversion efficiency. Progress in Photovoltaics: Research and Applications, 2014, 22, 58-68.	8.1	142
12	Impact of Nanoscale Elemental Distribution in High-Performance Kesterite Solar Cells. Advanced Energy Materials, 2015, 5, 1402180.	19.5	120
13	Minority carrier diffusion length extraction in $\text{Cu}_{2}\text{ZnSn}(\text{Se},\text{S})_{4}$ solar cells. Journal of Applied Physics, 2013, 114, 114511.	2.5	91
14	Sun-<i>VOC</i> characteristics of high performance kesterite solar cells. Journal of Applied Physics, 2014, 116, .	2.5	90
15	Photoluminescence characterization of a high-efficiency $\text{Cu}_{2}\text{ZnSnS}_{4}$ device. Journal of Applied Physics, 2013, 114, .	2.5	84
16	Semi-empirical device model for $\text{Cu}_{2}\text{ZnSn}(\text{S},\text{Se})_{4}$ solar cells. Applied Physics Letters, 2014, 105, .	3.3	81
17	Understanding the relationship between $\text{Cu}_{2}\text{ZnSn}(\text{S},\text{Se})_{4}$ material properties and device performance. MRS Communications, 2014, 4, 159-170.	1.8	59
18	Back Contact Engineering for Increased Performance in Kesterite Solar Cells. Advanced Energy Materials, 2017, 7, 1602585.	19.5	54

#	ARTICLE	IF	CITATIONS
19	The impact of sodium on the sub-bandgap states in CZTSe and CZTS. Applied Physics Letters, 2015, 106, .	3.3	51
20	Electronically active defects in the Cu ₂ ZnSn(S _e ,S) ₄ alloys as revealed by transient photocapacitance spectroscopy. Applied Physics Letters, 2012, 101, 142106.	3.3	48
21	Relationship between Cu ₂ ZnSnS ₄ quasi donor-acceptor pair density and solar cell efficiency. Applied Physics Letters, 2013, 103, .	3.3	44
22	Industrial perspectives on earth abundant, multinary thin film photovoltaics. Semiconductor Science and Technology, 2017, 32, 033004.	2.0	31
23	Unconventional kesterites: The quest to reduce band tailing in CZTSSe. Current Opinion in Green and Sustainable Chemistry, 2017, 4, 29-36.	5.9	29
24	Nanoscale Characterization of Back Surfaces and Interfaces in Thin-Film Kesterite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 17024-17033.	8.0	18
25	Analysis of loss mechanisms in Ag ₂ ZnSnSe ₄ Schottky barrier photovoltaics. Journal of Applied Physics, 2017, 121, .	2.5	12
26	Device characteristics of high performance Cu ₂ ZnSnS ₄ solar cell. , 2012, , .		4
27	High intensity and integrated Suns-Voc characterization of high performance kesterite solar cells. , 2015, , .		1