

# 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  
h-index

580821

25  
g-index

28  
all docs

28  
docs citations

28  
times ranked

4608  
citing authors

#	ARTICLE	IF	CITATIONS
1	Industrial perspectives on earth abundant, multinary thin film photovoltaics. Semiconductor Science and Technology, 2017, 32, 033004.	2.0	31
2	Unconventional kesterites: The quest to reduce band tailing in CZTSSe. Current Opinion in Green and Sustainable Chemistry, 2017, 4, 29-36.	5.9	29
3	Analysis of loss mechanisms in Ag <sub>2</sub> ZnSnSe <sub>4</sub> Schottky barrier photovoltaics. Journal of Applied Physics, 2017, 121, .	2.5	12
4	Back Contact Engineering for Increased Performance in Kesterite Solar Cells. Advanced Energy Materials, 2017, 7, 1602585.	19.5	54
5	Nanoscale Characterization of Back Surfaces and Interfaces in Thin-Film Kesterite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 17024-17033.	8.0	18
6	High intensity and integrated Suns-Voc characterization of high performance kesterite solar cells. , 2015, , .		1
7	Impact of Nanoscale Elemental Distribution in High-Performance Kesterite Solar Cells. Advanced Energy Materials, 2015, 5, 1402180.	19.5	120
8	The impact of sodium on the sub-bandgap states in CZTSe and CZTS. Applied Physics Letters, 2015, 106, .	3.3	51
9	Cu <sub>2</sub> ZnSnSe <sub>4</sub> 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
10	Understanding the relationship between Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> material properties and device performance. MRS Communications, 2014, 4, 159-170.	1.8	59
11	Electrodeposited Cu <sub>2</sub> ZnSnSe <sub>4</sub> thin film solar cell with 7% power conversion efficiency. Progress in Photovoltaics: Research and Applications, 2014, 22, 58-68.	8.1	142
12	Device Characteristics of CZTSSe Thin-Film Solar Cells with 12.6% Efficiency. Advanced Energy Materials, 2014, 4, 1301465.	19.5	2,651
13	Suns-VOC characteristics of high performance kesterite solar cells. Journal of Applied Physics, 2014, 116, .	2.5	90
14	Semi-empirical device model for Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> solar cells. Applied Physics Letters, 2014, 105, .	3.3	81
15	High Efficiency Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> Solar Cells by Applying a Double In <sub>2</sub> S <sub>3</sub> /CdS Emitter. Advanced Materials, 2014, 26, 7427-7431.	21.0	400
16	Solution-processed Cu(In,Ga)(S,Se) <sub>2</sub> absorber yielding a 15.2% efficient solar cell. Progress in Photovoltaics: Research and Applications, 2013, 21, 82-87.	8.1	343
17	Minority carrier diffusion length extraction in Cu <sub>2</sub> ZnSn(Se,S) <sub>4</sub> solar cells. Journal of Applied Physics, 2013, 114, 114511.	2.5	91
18	Band tailing and efficiency limitation in kesterite solar cells. Applied Physics Letters, 2013, 103, .	3.3	576

#	ARTICLE	IF	CITATIONS
19	Relationship between Cu <sub>2</sub> ZnSnS <sub>4</sub> quasi donor-acceptor pair density and solar cell efficiency. Applied Physics Letters, 2013, 103, .	3.3	44
20	Photoluminescence characterization of a high-efficiency Cu <sub>2</sub> ZnSnS <sub>4</sub> device. Journal of Applied Physics, 2013, 114, .	2.5	84
21	Beyond 11% Efficiency: Characteristics of State-of-the-Art Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> Solar Cells. Advanced Energy Materials, 2013, 3, 34-38.	19.5	922
22	Device characteristics of high performance Cu <sub>2</sub> ZnSnS <sub>4</sub> solar cell. , 2012, , .		4
23	Electronically active defects in the Cu <sub>2</sub> ZnSn(Se,S) <sub>4</sub> alloys as revealed by transient photocapacitance spectroscopy. Applied Physics Letters, 2012, 101, 142106.	3.3	48
24	Hydrazine-Processed Ge-Substituted CZTSe Solar Cells. Chemistry of Materials, 2012, 24, 4588-4593.	6.7	165
25	Electronic properties of the Cu <sub>2</sub> ZnSn(Se,S) <sub>4</sub> absorber layer in solar cells as revealed by admittance spectroscopy and related methods. Applied Physics Letters, 2012, 100, .	3.3	194
26	Device characteristics of a 10.1% hydrazine-processed Cu <sub>2</sub> ZnSn(Se,S) <sub>4</sub> solar cell. Progress in Photovoltaics: Research and Applications, 2012, 20, 6-11.	8.1	720
27	Low band gap liquid-processed CZTSe solar cell with 10.1% efficiency. Energy and Environmental Science, 2012, 5, 7060.	30.8	303