Tayfun Gokmen

List of Publications by Year in descending order

27 papers	7,643 citations	279487 23 h-index	580395 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.	1.0	31
2	Unconventional kesterites: The quest to reduce band tailing in CZTSSe. Current Opinion in Green and Sustainable Chemistry, 2017, 4, 29-36.	3.2	29
3	Analysis of loss mechanisms in Ag2ZnSnSe4 Schottky barrier photovoltaics. Journal of Applied Physics, 2017, 121, .	1.1	12
4	Back Contact Engineering for Increased Performance in Kesterite Solar Cells. Advanced Energy Materials, 2017, 7, 1602585.	10.2	54
5	Nanoscale Characterization of Back Surfaces and Interfaces in Thin-Film Kesterite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 17024-17033.	4.0	18
6	High intensity and integrated Suns-Voc characterization of high performance kesterite solar cells. , 2015, , .		1
7	Impact of Nanoscale Elemental Distribution in Highâ€Performance Kesterite Solar Cells. Advanced Energy Materials, 2015, 5, 1402180.	10.2	120
8	The impact of sodium on the sub-bandgap states in CZTSe and CZTS. Applied Physics Letters, 2015, 106, .	1.5	51
9	Cu₂ZnSnSe₄ Thinâ€Film Solar Cells by Thermal Coâ€evaporation with 11.6% Efficiency and Improved Minority Carrier Diffusion Length. Advanced Energy Materials, 2015, 5, 1401372.	10.2	408
10	Understanding the relationship between Cu2ZnSn(S,Se)4 material properties and device performance. MRS Communications, 2014, 4, 159-170.	0.8	59
11	Electrodeposited Cu₂ZnSnSe₄ thin film solar cell with 7% power conversion efficiency. Progress in Photovoltaics: Research and Applications, 2014, 22, 58-68.	4.4	142
12	Device Characteristics of CZTSSe Thinâ€Film Solar Cells with 12.6% Efficiency. Advanced Energy Materials, 2014, 4, 1301465.	10.2	2,651
13	Suns-VOC characteristics of high performance kesterite solar cells. Journal of Applied Physics, 2014, 116, .	1.1	90
14	Semi-empirical device model for Cu2ZnSn(S,Se)4 solar cells. Applied Physics Letters, 2014, 105, .	1.5	81
15	High Efficiency Cu₂ZnSn(S,Se)₄ Solar Cells by Applying a Double In₂S₃/CdS Emitter. Advanced Materials, 2014, 26, 7427-7431.	11.1	400
16	Solutionâ€processed Cu(In,Ga)(S,Se)₂ absorber yielding a 15.2% efficient solar cell. Progress in Photovoltaics: Research and Applications, 2013, 21, 82-87.	4.4	343
17	Minority carrier diffusion length extraction in Cu₂ZnSn(Se,S)₄ solar cells. Journal of Applied Physics, 2013, 114, 114511.	1.1	91
18	Band tailing and efficiency limitation in kesterite solar cells. Applied Physics Letters, 2013, 103, .	1.5	576

#	Article	IF	Citations
19	Relationship between Cu2ZnSnS4 quasi donor-acceptor pair density and solar cell efficiency. Applied Physics Letters, 2013, 103, .	1.5	44
20	Photoluminescence characterization of a high-efficiency Cu2ZnSnS4 device. Journal of Applied Physics, 2013, 114, .	1.1	84
21	Beyond 11% Efficiency: Characteristics of Stateâ€ofâ€theâ€Art Cu₂ZnSn(S,Se)₄ Solar Cells. Advanced Energy Materials, 2013, 3, 34-38.	10.2	922
22	Device characteristics of high performance Cu<inf>2</inf>ZnSnS<inf>4</inf> solar cell. , 2012, , .		4
23	Electronically active defects in the Cu2ZnSn(Se,S)4 alloys as revealed by transient photocapacitance spectroscopy. Applied Physics Letters, 2012, 101, 142106.	1.5	48
24	Hydrazine-Processed Ge-Substituted CZTSe Solar Cells. Chemistry of Materials, 2012, 24, 4588-4593.	3.2	165
25	Electronic properties of the Cu2ZnSn(Se,S)4 absorber layer in solar cells as revealed by admittance spectroscopy and related methods. Applied Physics Letters, 2012, 100, .	1.5	194
26	Device characteristics of a 10.1% hydrazineâ€processed Cu₂ZnSn(Se,S)₄ solar cell. Progress in Photovoltaics: Research and Applications, 2012, 20, 6-11.	4.4	720
27	Low band gap liquid-processed CZTSe solar cell with 10.1% efficiency. Energy and Environmental Science, 2012, 5, 7060.	15.6	303