

Tayfun Gokmen

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Device Characteristics of CZTSSe Thin-Film Solar Cells with 12.6% Efficiency. Advanced Energy Materials, 2014, 4, 1301465. | 10.2 | 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. | 10.2 | 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. | 4.4 | 720 |
| 4 | Band tailing and efficiency limitation in kesterite solar cells. Applied Physics Letters, 2013, 103, . | 1.5 | 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. | 10.2 | 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. | 11.1 | 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. | 4.4 | 343 |
| 8 | Low band gap liquid-processed CZTSe solar cell with 10.1% efficiency. Energy and Environmental Science, 2012, 5, 7060. | 15.6 | 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, . | 1.5 | 194 |
| 10 | Hydrazine-Processed Ge-Substituted CZTSe Solar Cells. Chemistry of Materials, 2012, 24, 4588-4593. | 3.2 | 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. | 4.4 | 142 |
| 12 | Impact of Nanoscale Elemental Distribution in High-Performance Kesterite Solar Cells. Advanced Energy Materials, 2015, 5, 1402180. | 10.2 | 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. | 1.1 | 91 |
| 14 | Sun-<i>VOC</i> characteristics of high performance kesterite solar cells. Journal of Applied Physics, 2014, 116, . | 1.1 | 90 |
| 15 | Photoluminescence characterization of a high-efficiency $\text{Cu}_{2}\text{ZnSnS}_{4}$ device. Journal of Applied Physics, 2013, 114, . | 1.1 | 84 |
| 16 | Semi-empirical device model for $\text{Cu}_{2}\text{ZnSn}(\text{S},\text{Se})_{4}$ solar cells. Applied Physics Letters, 2014, 105, . | 1.5 | 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. | 0.8 | 59 |
| 18 | Back Contact Engineering for Increased Performance in Kesterite Solar Cells. Advanced Energy Materials, 2017, 7, 1602585. | 10.2 | 54 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | The impact of sodium on the sub-bandgap states in CZTSe and CZTS. Applied Physics Letters, 2015, 106, . | 1.5 | 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. | 1.5 | 48 |
| 21 | Relationship between Cu ₂ ZnSnS ₄ quasi donor-acceptor pair density and solar cell efficiency. Applied Physics Letters, 2013, 103, . | 1.5 | 44 |
| 22 | Industrial perspectives on earth abundant, multinary thin film photovoltaics. Semiconductor Science and Technology, 2017, 32, 033004. | 1.0 | 31 |
| 23 | Unconventional kesterites: The quest to reduce band tailing in CZTSSe. Current Opinion in Green and Sustainable Chemistry, 2017, 4, 29-36. | 3.2 | 29 |
| 24 | Nanoscale Characterization of Back Surfaces and Interfaces in Thin-Film Kesterite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 17024-17033. | 4.0 | 18 |
| 25 | Analysis of loss mechanisms in Ag ₂ ZnSnSe ₄ Schottky barrier photovoltaics. Journal of Applied Physics, 2017, 121, . | 1.1 | 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 |