

# Dilara Gokcen Buldu

## List of Publications by Year in descending order

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19  
papers

175  
citations

1478505

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1125743

13  
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all docs

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	A Novel Strategy for the Application of an Oxide Layer to the Front Interface of Cu(In,Ga)Se <sub>2</sub> Thin Film Solar Cells: Al <sub>2</sub> O <sub>3</sub> /HfO <sub>2</sub> Multi-Stack Design With Contact Openings. IEEE Journal of Photovoltaics, 2022, 12, 301-308.	2.5	4
2	Comparison of a bottom-up and a top-down approach for the creation of contact openings in a multi-stack oxide layer at the front interface of Cu(In,Ga)Se <sub>2</sub> . Solar Energy, 2022, 237, 161-172.	6.1	1
3	Revealing the electronic structure, heterojunction band offset and alignment of Cu <sub>2</sub> ZnGeSe <sub>4</sub> : a combined experimental and computational study towards photovoltaic applications. Physical Chemistry Chemical Physics, 2021, 23, 9553-9560.	2.8	6
4	Novel cost-effective approach to produce nano-sized contact openings in an aluminum oxide passivation layer up to 30 nm thick for CIGS solar cells. Journal Physics D: Applied Physics, 2021, 54, 234004.	2.8	4
5	Comparative Study of Al <sub>2</sub> O <sub>3</sub> and HfO <sub>2</sub> for Surface Passivation of Cu(In,Ga)Se <sub>2</sub> Thin Films: An Innovative Al <sub>2</sub> O <sub>3</sub> /HfO <sub>2</sub> Multistack Design. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100073.	1.8	5
6	A multi-stack Al <sub>2</sub> O <sub>3</sub> /HfO <sub>2</sub> design with contact openings for front surface of Cu(In,Ga)Se <sub>2</sub> solar cells. , 2021, , .		1
7	Detrimental Impact of Na Upon Rb Postdeposition Treatments of Cu(In,Ga)Se <sub>2</sub> Absorber Layers. Solar Rrl, 2021, 5, 2100390.	5.8	4
8	Bias dependent admittance spectroscopy of thin film solar cells: KF post deposition treatment, accelerated lifetime testing, and their effect on the CVf loss maps. Solar Energy Materials and Solar Cells, 2021, 231, 111289.	6.2	1
9	Investigating the experimental space for two-step Cu(In,Ga)(S,Se) <sub>2</sub> absorber layer fabrication: A design of experiment approach. Thin Solid Films, 2021, 738, 138958.	1.8	3
10	KF Postdeposition Treatment in N <sub>2</sub> of Single-Stage Thin Cu(In,Ga)Se <sub>2</sub> Absorber Layers. IEEE Journal of Photovoltaics, 2020, 10, 255-258.	2.5	3
11	Intermediate scale bandgap fluctuations in ultrathin Cu(In,Ga)Se <sub>2</sub> absorber layers. Journal of Applied Physics, 2020, 128, 163102.	2.5	5
12	Study of Ammonium Sulfide Surface Treatment for Ultrathin Cu(In,Ga)Se <sub>2</sub> with Different Cu/(Ga+In) Ratios. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000307.	1.8	5
13	Rear surface passivation of ultra-thin CIGS solar cells using atomic layer deposited HfO <sub>x</sub> . EPJ Photovoltaics, 2020, 11, 10.	1.6	17
14	Inclusion of Water in Cu(In, Ga)Se <sub>2</sub> Absorber Material During Accelerated Lifetime Testing. ACS Applied Energy Materials, 2020, 3, 5120-5125.	5.1	14
15	Bias-Dependent Admittance Spectroscopy of Thin-Film Solar Cells: Experiment and Simulation. IEEE Journal of Photovoltaics, 2020, 10, 1102-1111.	2.5	13
16	High <i>V<sub>oc</sub></i> upon KF Post-Deposition Treatment for Ultrathin Single-Stage Coevaporated Cu(In, Ga)Se <sub>2</sub> Solar Cells. ACS Applied Energy Materials, 2019, 2, 6102-6111.	5.1	22
17	Influence of sulfurization temperature on Cu <sub>2</sub> ZnSnS <sub>4</sub> absorber layer on flexible titanium substrates for thin film solar cells. Physica Scripta, 2018, 93, 024002.	2.5	25
18	Wet Processing in State-of-the-Art Cu(In,Ga)(S,Se) <sub>2</sub> Thin Film Solar Cells. Solid State Phenomena, 2018, 282, 300-305.	0.3	3

#	ARTICLE	IF	CITATIONS
19	Insulator Materials for Interface Passivation of Cu(In,Ga)Se <sub>2</sub> Thin Films. IEEE Journal of Photovoltaics, 2018, 8, 1313-1319.	2.5	39