Thierry Kohl

List of Publications by Year
in descending order

26	183	1040056 9	1125743 13
papers	citations	h-index	g-index

26	26	26	191
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Innovative and industrially viable approach to fabricate AlOx rear passivated ultra-thin Cu(In, Ga)Se2 (CIGS) solar cells. Solar Energy, 2020, 207, 1002-1008.	6.1	23
2	High V_{oc} upon KF Post-Deposition Treatment for Ultrathin Single-Stage Coevaporated Cu(In, Ga)Se₂ Solar Cells. ACS Applied Energy Materials, 2019, 2, 6102-6111.	5.1	22
3	A study to improve light confinement and rear-surface passivation in a thin-Cu(In, Ga)Se2 solar cell. Thin Solid Films, 2019, 669, 399-403.	1.8	18
4	Rear surface passivation of ultra-thin CIGS solar cells using atomic layer deposited HfO_x. EPJ Photovoltaics, 2020, 11, 10.	1.6	17
5	Inclusion of Water in Cu(In, Ga)Se2 Absorber Material During Accelerated Lifetime Testing. ACS Applied Energy Materials, 2020, 3, 5120-5125.	5.1	14
6	Fabrication of high band gap kesterite solar cell absorber materials for tandem applications. Thin Solid Films, 2018, 660, 247-252.	1.8	13
7	Alkali treatment for single-stage co-evaporated thin CuIn0.7Ga0.3Se2 solar cells. Thin Solid Films, 2019, 671, 44-48.	1.8	13
8	Bias-Dependent Admittance Spectroscopy of Thin-Film Solar Cells: Experiment and Simulation. IEEE Journal of Photovoltaics, 2020, 10, 1102-1111.	2.5	13
9	Crystallization properties of Cu2ZnGeSe4. Thin Solid Films, 2019, 670, 76-79.	1.8	10
10	Intermediate scale bandgap fluctuations in ultrathin Cu(In,Ga)Se2 absorber layers. Journal of Applied Physics, 2020, 128, 163102.	2.5	5
11	Study of Ammonium Sulfide Surface Treatment for Ultrathin Cu(In,Ga)Se₂ with Different Cu/(Gaâ€‰+â€‰In) Ratios. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000307.	1.8	5
12	Comparative Study of Al₂O₃ and HfO₂ for Surface Passivation of Cu(In,Ga)Se₂ Thin Films: An Innovative Al₂O₃/HfO₂ Multistack Design. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100073.	1.8	5
13	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
14	Detrimental Impact of Na Upon Rb Postdeposition Treatments of Cu(In,Ga)Se 2 Absorber Layers. Solar Rrl, 2021, 5, 2100390.	5.8	4
15	A Novel Strategy for the Application of an Oxide Layer to the Front Interface of Cu(In,Ga)Se₂ Thin Film Solar Cells: Al₂O₃/HfO₂ Multi-Stack Design With Contact Openings. IEEE Journal of Photovoltaics, 2022, 12, 301-308.	2.5	4
16	Wet Processing in State-of-the-Art Cu(In,Ga)(S,Se)₂ Thin Film Solar Cells. Solid State Phenomena, 2018, 282, 300-305.	0.3	3
17	KF Postdeposition Treatment in N₂ of Single-Stage Thin Cu(In,Ga)Se₂ Absorber Layers. IEEE Journal of Photovoltaics, 2020, 10, 255-258.	2.5	3
18	Investigating the experimental space for two-step Cu(In,Ga)(S,Se)2 absorber layer fabrication: A design of experiment approach. Thin Solid Films, 2021, 738, 138958.	1.8	3

#	Article	IF	Citations
19	A study of the degradation mechanisms of ultra-thin CIGS solar cells submitted to a damp heat environment. , 2019, , .		1
20	A multi-stack Al₂O₃/HfO₂ design with contact openings for front surface of Cu(In,Ga)Se₂ solar cells. , 2021, , .		1
21	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
22	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)Se2. Solar Energy, 2022, 237, 161-172.	6.1	1
23	Selenium and Sulphur replacement dynamics in CZTSSe and CZGSSe kesterite materials. , 2018, , .		0
24	Room temperature photoluminescence analysis of alkali treated single-stage thin Cu(In,Ga)Se2 absorber layers. , 2019, , .		0
25	Study of Room Temperature Photoluminescence For 1-stage Co-Evaporated Ultra-Thin Cu(In,Ga)Se2 Solar Cells. , 2019, , .		0
26	Bias dependent admittance spectroscopy: the impact of sodium supply on the Cu(In,Ga)Se2 growth.. , 2021, , .		0