Samira Khelifi

List of Publications by Year
in descending order

39 papers	1,278 citations	430874 18 h-index	361022 35 g-index
40 all docs	40 docs citations	40 times ranked	1684 citing authors

#	Article	IF	Citations
1	The path towards efficient wide band gap thin-film kesterite solar cells with transparent back contact for viable tandem application. Solar Energy Materials and Solar Cells, 2021, 219, 110824.	6.2	17
2	Identification of vanadium dopant sites in the metalâ€"organic framework DUT-5(Al). Physical Chemistry Chemical Physics, 2021, 23, 7088-7100.	2.8	1
3	Investigation of recombination mechanisms in Cu(In,Ga)Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2531" altimg="si3.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> solar cells using numerical modelling. Solar Energy, 2021, 228, 464-473.	6.1	7
4	Fructosamine-3-Kinase as a Potential Treatment Option for Age-Related Macular Degeneration. Journal of Clinical Medicine, 2020, 9, 2869.	2.4	6
5	Numerical modelling of the performance-limiting factors in CZGSe solar cells. Journal Physics D: Applied Physics, 2020, 53, 385102.	2.8	7
6	Effect of Na and the back contact on Cu2Zn(Sn,Ge)Se4 thin-film solar cells: Towards semi-transparent solar cells. Solar Energy, 2020, 206, 555-563.	6.1	11
7	Sputter deposition of copper oxide films. Applied Surface Science, 2019, 492, 711-717.	6.1	14
8	Lanthanide-centered luminescence evolution and potential anti-counterfeiting application of Tb³⁺/Eu³⁺ grafted melamine cyanurate hydrogen-bonded triazine frameworks. Materials Chemistry Frontiers, 2019, 3, 579-586.	5.9	15
9	Wide band gap kesterite absorbers for thin film solar cells: potential and challenges for their deployment in tandem devices. Sustainable Energy and Fuels, 2019, 3, 2246-2259.	4.9	19
10	Non-Isothermal Modeling of Dark Current-Voltage Measurements of a CIGS Solar Cell. ECS Journal of Solid State Science and Technology, 2018, 7, P50-P54.	1.8	5
11	Sulfurization of co-evaporated Cu2ZnSnSe4 thin film solar cells: The role of Na. Solar Energy Materials and Solar Cells, 2018, 186, 115-123.	6.2	17
12	Interface Engineering in CuInSe₂ Solar Cells Using Ammonium Sulfide Vapors. Solar Rrl, 2017, 1, 1700067.	5.8	7
13	Determination of Majority Carrier Capture Rates via Deep Level Transient Spectroscopy. ECS Journal of Solid State Science and Technology, 2016, 5, P3041-P3047.	1.8	1
14	KCN Chemical Etch for Interface Engineering in Cu₂ZnSnSe₄ Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 14690-14698.	8.0	62
15	Effect of the burn-out step on the microstructure of the solution-processed Cu(In,Ga)Se2 solar cells. Thin Solid Films, 2015, 583, 142-150.	1.8	4
16	Photoluminescence investigation of Cu 2 ZnSnS 4 thin film solar cells. Thin Solid Films, 2015, 582, 146-150.	1.8	19
17	Spectral currentâ€"voltage analysis of kesterite solar cells. Journal Physics D: Applied Physics, 2014, 47, 175101.	2.8	33
18	Effect of light induced degradation on electrical transport and charge extraction in polythiophene:Fullerene (P3HT:PCBM) solar cells. Solar Energy Materials and Solar Cells, 2014, 120, 244-252.	6.2	43

#	Article	IF	Citations
19	Effect of Binder Content in Cuâ€“Inâ€“Se Precursor Ink on the Physical and Electrical Properties of Printed CuInSe₂ Solar Cells. Journal of Physical Chemistry C, 2014, 118, 27201-27209.	3.1	9
20	Modelling and measurement of the metastable defect distribution in chalcopyrite-based thin film solar cells. Thin Solid Films, 2013, 535, 362-365.	1.8	4
21	Advanced electrical simulation of thin film solar cells. Thin Solid Films, 2013, 535, 296-301.	1.8	342
22	Assignment of capacitance spectroscopy signals of CIGS solar cells to effects of non-ohmic contacts. Solar Energy Materials and Solar Cells, 2013, 112, 78-83.	6.2	33
23	Effect of Polymer Crystallinity in P3HT:PCBM Solar Cells on Band Gap Trap States and Apparent Recombination Order. Advanced Energy Materials, 2013, 3, 466-471.	19.5	48
24	Electrical characterization of all-layers-sprayed solar cell based on ZnO nanorods and extremely thin CIS absorber. Solar Energy, 2013, 91, 48-58.	6.1	26
25	About RCâ€·like contacts in deep level transient spectroscopy and Cu(In,Ga)Se₂ solar cells. Progress in Photovoltaics: Research and Applications, 2012, 20, 588-594.	8.1	23
26	Defect distributions in thin film solar cells deduced from admittance measurements under different bias voltages. Journal of Applied Physics, 2011, 110, .	2.5	37
27	Signature of a back contact barrier in DLTS spectra. Journal of Applied Physics, 2011, 109, .	2.5	22
28	Modelling multivalent defects in thin film solar cells. Thin Solid Films, 2011, 519, 7481-7484.	1.8	151
29	Investigation of defects by admittance spectroscopy measurements in poly (3-hexylthiophene):(6,6)-phenyl C61-butyric acid methyl ester organic solar cells degraded under air exposure. Journal of Applied Physics, 2011, 110, .	2.5	112
30	Analytical versus numerical analysis of back grading in CIGS solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 1550-1554.	6.2	16
31	Can a multivalent defect be mimicked by several Shockleyâ€“Readâ€“Hall-like defects?. Journal of Applied Physics, 2010, 108, 063707.	2.5	2
32	The AlxGa1â^’xAs window composition effect on the hardness improvement of a p+â€“nâ€“n+GaAs solar cell exposed to the electron irradiation. Energy Conversion and Management, 2010, 51, 1676-1678.	9.2	5
33	A simple correction method for series resistance and inductance on solar cell admittance spectroscopy. Solar Energy Materials and Solar Cells, 2010, 94, 966-970.	6.2	23
34	Characterization of flexible thin film CIGSe solar cells grown on different metallic foil substrates. Energy Procedia, 2010, 2, 109-117.	1.8	21
35	Numerical simulation of the effect of the Al molar fraction and thickness of an AlxGa1â^’xAs window on the sensitivity of a p+â€“nâ€“n+ GaAs solar cell to 1MeV electron irradiation. Renewable Energy, 2009, 34, 2426-2431.	8.9	7
36	Numerical simulation of the impurity photovoltaic effect in silicon solar cells. Renewable Energy, 2008, 33, 293-298.	8.9	37

#	Article	IF	Citations
37	Impurity photovoltaic effect in GaAs solar cell with two deep impurity levels. Solar Energy Materials and Solar Cells, 2008, 92, 1559-1565.	6.2	30
38	Effects of temperature and series resistance on GaAs concentrator solar cell. EPJ Applied Physics, 2008, 41, 115-119.	0.7	9
39	Modelling of the perimeter recombination effect in GaAs-based micro-solar cell. Solar Energy Materials and Solar Cells, 2006, 90, 1-14.	6.2	32