FabiÃ¡n A PulgarÃ-n-Agudelo

List of Publications by Year
in descending order

19 papers	625 citations	840119 11 h-index	839053 18 g-index
19 all docs	19 docs citations	19 times ranked	920 citing authors

#	Article	IF	Citations
1	Development of a Selective Chemical Etch To Improve the Conversion Efficiency of Zn-Rich Cu₂ZnSnS₄ Solar Cells. Journal of the American Chemical Society, 2012, 134, 8018-8021.	6.6	242
2	Secondary phase formation in Znâ€rich Cu₂ZnSnSe₄â€based solar cells annealed in low pressure and temperature conditions. Progress in Photovoltaics: Research and Applications, 2014, 22, 479-487.	4.4	97
3	Open-circuit voltage enhancement in CdS/Cu2ZnSnSe4-based thin film solar cells: A metalâ€“insulatorâ€“semiconductor (MIS) performance. Solar Energy Materials and Solar Cells, 2016, 149, 204-212.	3.0	45
4	Optimization of physical properties of spray-deposited Cu2ZnSnS4 thin films for solar cell applications. Materials and Design, 2017, 114, 515-520.	3.3	41
5	Ultra-thin CdS for highly performing chalcogenides thin film based solar cells. Solar Energy Materials and Solar Cells, 2016, 158, 138-146.	3.0	31
6	Determination of minority carrier diffusion length of sprayed-Cu 2 ZnSnS 4 thin films. Solid-State Electronics, 2016, 118, 1-3.	0.8	26
7	Suited growth parameters inducing type of conductivity conversions on chemical spray pyrolysis synthesized SnS thin films. Journal of Analytical and Applied Pyrolysis, 2016, 121, 347-359.	2.6	25
8	Optimization of CdxZn1-xS compound from CdS/ZnS bi-layers deposited by chemical bath deposition for thin film solar cells application. Thin Solid Films, 2019, 676, 100-107.	0.8	25
9	Optimization of CBD-CdS physical properties for solar cell applications considering a MIS structure. Materials and Design, 2016, 99, 254-261.	3.3	18
10	Visible electroluminescence from silicon nanoclusters embedded in chlorinated silicon nitride thin films. Thin Solid Films, 2010, 518, 3891-3893.	0.8	13
11	Cu₂ZnSn(S,Se)₄ thin-films prepared from selenized nanocrystals ink. RSC Advances, 2019, 9, 18420-18428.	1.7	13
12	Study on the impact of stoichiometric and optimal compositional ratios on physical properties of Cu₂ZnSnS₄ thin films deposited by spray pyrolysis. Materials Research Express, 2018, 5, 015513.	0.8	12
13	Preparation and characterization of Cu₂ZnSnSe₄and Cu₂ZnSn(S,Se)₄powders by ball milling process for solar cells application. Materials Research Express, 2017, 4, 125501.	0.8	11
14	Influence of Ge content on Cu2Zn(SnGe)Se4 physical properties deposited by sequential thermal evaporation technique. Materials Science in Semiconductor Processing, 2018, 83, 96-101.	1.9	11
15	Cu content dependence of Cu2Zn(SnGe)Se4 solar cells prepared by using sequential thermal evaporation technique of Cu/Sn/Cu/Zn/Ge stacked layers. Journal of Materials Science: Materials in Electronics, 2018, 29, 15363-15368.	1.1	6
16	A thermal route to synthesize photovoltaic grade CuInSe2 films from printed CuO/In2O3 nanoparticle-based inks under Se atmosphere. Journal of Renewable and Sustainable Energy, 2013, 5, 053140.	0.8	4
17	Preparation of 4.8% efficiency Cu<inf>2</inf>ZnSnSe<inf>4</inf> based solar cell by a two step process. , 2012, , .		2
18	Influence of Germanium Content on the Properties of Cu 2 Zn(SnGe)Se 4 Thin Films Deposited by Sequential Thermal Evaporation Technique Studied by Photoacoustic Technique. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900260.	0.8	2

#	Article	IF	Citations
19	Synthesis of CuInSe<SUB align="right">2 nanopowders by microwave assisted solvothermal method. International Journal of Nanotechnology, 2013, 10, 1029.	0.1	1