Claudia Malerba

List of Publications by Year
in descending order

28 papers	1,116 citations	430442 18 h-index	552369 26 g-index
30 all docs	30 docs citations	30 times ranked	1697 citing authors

#	ARTICLE	IF	CITATIONS
1	Absorption coefficient of bulk and thin film Cu2O. Solar Energy Materials and Solar Cells, 2011, 95, 2848-2854.	3.0	195
2	CZTS stoichiometry effects on the band gap energy. Journal of Alloys and Compounds, 2014, 582, 528-534.	2.8	146
3	Valence band offset at the CdS/Cu₂ZnSnS₄ interface probed by x-ray photoelectron spectroscopy. Journal Physics D: Applied Physics, 2013, 46, 175101.	1.3	113
4	Nitrogen doped Cu2O: A possible material for intermediate band solar cells?. Solar Energy Materials and Solar Cells, 2012, 105, 192-195.	3.0	67
5	Cu₂SnS₃ based solar cell with 3% efficiency. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 35-39.	0.8	58
6	Effect of the order-disorder transition on the optical properties of Cu2ZnSnS4. Applied Physics Letters, 2016, 108, .	1.5	53
7	Chlorine doping of Cu2O. Solar Energy Materials and Solar Cells, 2010, 94, 1947-1952.	3.0	51
8	Fabrication of Cu2ZnSnS4 solar cells by sulfurization of evaporated precursors. Energy Procedia, 2011, 10, 187-191.	1.8	44
9	Intrinsic defects and metastability effects in Cu2O. Thin Solid Films, 2009, 517, 2469-2472.	0.8	39
10	Cation Disorder In Cu₂ZnSnS₄Thin Films: Effect On Solar Cell Performances. Solar Rrl, 2017, 1, 1700101.	3.1	34
11	Physical routes for the synthesis of kesterite. JPhys Energy, 2019, 1, 042003.	2.3	34
12	Fabrication of monolithic CZTS/Si tandem cells by development of the intermediate connection. Solar Energy, 2019, 190, 414-419.	2.9	33
13	Electronic structure of Ar+ ion-sputtered thin-film MoS2: A XPS and IPES study. Applied Surface Science, 2017, 392, 795-800.	3.1	31
14	Rear Band gap Grading Strategies on Snâ€"Ge-Alloyed Kesterite Solar Cells. ACS Applied Energy Materials, 2020, 3, 10362-10375.	2.5	29
15	Stoichiometry effect on Cu2ZnSnS4 thin films morphological and optical properties. Journal of Renewable and Sustainable Energy, 2014, 6, .	0.8	28
16	Blistering in Cu 2 ZnSnS 4 thin films: correlation with residual stresses. Materials and Design, 2016, 108, 725-735.	3.3	28
17	Structural properties of RF-magnetron sputtered Cu2O thin films. Thin Solid Films, 2011, 520, 280-286.	0.8	25
18	Control of composition and grain growth in Cu2ZnSnS4 thin films from nanoparticle inks. Thin Solid Films, 2019, 674, 12-21.	0.8	22

#	Article	IF	Citations
19	Insights into the Formation Pathways of Cu₂ZnSnSe₄ Using Rapid Thermal Processes. ACS Applied Energy Materials, 2018, 1, 1981-1989.	2.5	16
20	Synthesis and Post-Annealing of Cu2ZnSnS4 Absorber Layers Based on Oleylamine/1-dodecanethiol. Materials, 2019, 12, 3320.	1.3	16
21	Thermoelectric properties of CZTS thin films: effect of Cuâ€“Zn disorder. Physical Chemistry Chemical Physics, 2021, 23, 13148-13158.	1.3	15
22	Study and optimization of alternative MBEâ€deposited metallic precursors for highly efficient kesterite CZTSe:Ge solar cells. Progress in Photovoltaics: Research and Applications, 2019, 27, 779-788.	4.4	12
23	Over 10% Efficient Wide Bandgap CIGSe Solar Cells on Transparent Substrate with Na Predeposition Treatment. Solar Rrl, 2020, 4, 2000284.	3.1	8
24	Chloride-based route for monodisperse Cu2ZnSnS4 nanoparticles preparation. Journal of Renewable and Sustainable Energy, 2015, 7, .	0.8	7
25	Towards an ink-based method for the deposition of ZnxCd1-xS buffer layers in CZTS solar cells. Journal of Materials Science: Materials in Electronics, 2020, 31, 2575-2582.	1.1	4
26	Combinatorial study of co-sputtered Cu<inf>2</inf>ZnSnS<inf>4</inf> thin-film stoichiometry for photovoltaic devices. , 2014, , .		3
27	KSEMAW: an open source software for the analysis ofspectrophotometric, ellipsometric andphotothermal deflection spectroscopy measurements. Open Research Europe, 0, 1, 95.	2.0	1
28	Wide bandgap CIGSe solar cells on transparent substrates above 10% efficiency. , 2021, , .		0