

Claudia Malerba

List of Publications by Year in descending order

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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	Wide bandgap CIGSe solar cells on transparent substrates above 10% efficiency. , 2021, , .		0
2	Thermoelectric properties of CZTS thin films: effect of Cu ²⁺ Zn disorder. Physical Chemistry Chemical Physics, 2021, 23, 13148-13158.	1.3	15
3	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
4	Rear Band gap Grading Strategies on Sn ²⁺ Ge-Alloyed Kesterite Solar Cells. ACS Applied Energy Materials, 2020, 3, 10362-10375.	2.5	29
5	Over 10% Efficient Wide Bandgap CIGSe Solar Cells on Transparent Substrate with Na Predeposition Treatment. Solar Rrl, 2020, 4, 2000284.	3.1	8
6	Synthesis and Post-Annealing of Cu ₂ ZnSnS ₄ Absorber Layers Based on Oleylamine/1-dodecanethiol. Materials, 2019, 12, 3320.	1.3	16
7	Fabrication of monolithic CZTS/Si tandem cells by development of the intermediate connection. Solar Energy, 2019, 190, 414-419.	2.9	33
8	Study and optimization of alternative MBE ²⁺ deposited metallic precursors for highly efficient kesterite CZTSe:Ge solar cells. Progress in Photovoltaics: Research and Applications, 2019, 27, 779-788.	4.4	12
9	Physical routes for the synthesis of kesterite. JPhys Energy, 2019, 1, 042003.	2.3	34
10	Control of composition and grain growth in Cu ₂ ZnSnS ₄ thin films from nanoparticle inks. Thin Solid Films, 2019, 674, 12-21.	0.8	22
11	Insights into the Formation Pathways of Cu ₂ ZnSnSe ₄ Using Rapid Thermal Processes. ACS Applied Energy Materials, 2018, 1, 1981-1989.	2.5	16
12	Cation Disorder In Cu ₂ ZnSnS ₄ Thin Films: Effect On Solar Cell Performances. Solar Rrl, 2017, 1, 1700101.	3.1	34
13	Electronic structure of Ar ⁺ ion-sputtered thin-film MoS ₂ : A XPS and IPES study. Applied Surface Science, 2017, 392, 795-800.	3.1	31
14	Blistering in Cu ₂ ZnSnS ₄ thin films: correlation with residual stresses. Materials and Design, 2016, 108, 725-735.	3.3	28
15	Effect of the order-disorder transition on the optical properties of Cu ₂ ZnSnS ₄ . Applied Physics Letters, 2016, 108, .	1.5	53
16	Cu ₂ Sn ₃ based solar cell with 3% efficiency. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 35-39.	0.8	58
17	Chloride-based route for monodisperse Cu ₂ ZnSnS ₄ nanoparticles preparation. Journal of Renewable and Sustainable Energy, 2015, 7, .	0.8	7
18	Combinatorial study of co-sputtered Cu ₂ ZnSnS ₄ thin-film stoichiometry for photovoltaic devices. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
19	Stoichiometry effect on Cu ₂ ZnSnS ₄ thin films morphological and optical properties. Journal of Renewable and Sustainable Energy, 2014, 6, .	0.8	28
20	CZTS stoichiometry effects on the band gap energy. Journal of Alloys and Compounds, 2014, 582, 528-534.	2.8	146
21	Valence band offset at the CdS/Cu ₂ ZnSnS ₄ interface probed by x-ray photoelectron spectroscopy. Journal Physics D: Applied Physics, 2013, 46, 175101.	1.3	113
22	Nitrogen doped Cu ₂ O: A possible material for intermediate band solar cells?. Solar Energy Materials and Solar Cells, 2012, 105, 192-195.	3.0	67
23	Fabrication of Cu ₂ ZnSnS ₄ solar cells by sulfurization of evaporated precursors. Energy Procedia, 2011, 10, 187-191.	1.8	44
24	Absorption coefficient of bulk and thin film Cu ₂ O. Solar Energy Materials and Solar Cells, 2011, 95, 2848-2854.	3.0	195
25	Structural properties of RF-magnetron sputtered Cu ₂ O thin films. Thin Solid Films, 2011, 520, 280-286.	0.8	25
26	Chlorine doping of Cu ₂ O. Solar Energy Materials and Solar Cells, 2010, 94, 1947-1952.	3.0	51
27	Intrinsic defects and metastability effects in Cu ₂ O. Thin Solid Films, 2009, 517, 2469-2472.	0.8	39
28	KSEMAW: an open source software for the analysis of spectrophotometric, ellipsometric and photothermal deflection spectroscopy measurements. Open Research Europe, 0, 1, 95.	2.0	1