

Jennifer P Teixeira

List of Publications by Year in descending order

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38
papers

804
citations

516710

16
h-index

501196

28
g-index

39
all docs

39
docs citations

39
times ranked

978
citing authors

#	ARTICLE	IF	CITATIONS
1	Secondary crystalline phases identification in Cu ₂ ZnSnSe ₄ thin films: contributions from Raman scattering and photoluminescence. <i>Journal of Materials Science</i> , 2014, 49, 7425-7436.	3.7	99
2	CdS and Zn _{1-x} Sn _x O _y buffer layers for CIGS solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 272-281.	6.2	56
3	A comparison between thin film solar cells made from co-evaporated CuIn _{1-x} Ga _x Se ₂ using a one-stage process versus a three-stage process. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 470-478.	8.1	53
4	Passivation of Interfaces in Thin Film Solar Cells: Understanding the Effects of a Nanostructured Rear Point Contact Layer. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701101.	3.7	50
5	Radiative transitions in highly doped and compensated chalcopyrites and kesterites: The case of Cu ₂ ZnSnS ₄ . <i>Physical Review B</i> , 2014, 90, .	4.8	48
6	Optimization of post-deposition annealing in Cu ₂ ZnSnS ₄ thin film solar cells and its impact on device performance. <i>Solar Energy Materials and Solar Cells</i> , 2017, 170, 287-294.	6.2	48
7	Growth of Cu ₂ ZnSnS ₄ thin films by selenization of RF sputtered binary precursors. <i>Solar Energy Materials and Solar Cells</i> , 2018, 187, 219-226.	6.2	45
8	Effect of rapid thermal processing conditions on the properties of Cu ₂ ZnSnS ₄ thin films and solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2014, 126, 101-106.	6.2	42
9	Insulator Materials for Interface Passivation of Cu(In,Ga)Se ₂ Thin Films. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1313-1319.	2.5	39
10	Comparison of fluctuating potentials and donor-acceptor pair transitions in a Cu-poor Cu ₂ ZnSnS ₄ based solar cell. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	34
11	Influence of CdS and ZnSnO Buffer Layers on the Photoluminescence of Cu(In,Ga)Se ₂ Thin Films. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 670-675.	2.5	23
12	Cd and Cu Interdiffusion in Cu(In, Ga)Se ₂ /CdS Hetero-Interfaces. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 858-863.	2.5	23
13	Slow-muon study of quaternary solar-cell materials: Single layers and p-n junctions. <i>Physical Review Materials</i> , 2018, 2, .	4.3	23
14	Evidence of Limiting Effects of Fluctuating Potentials on V _{OC} of Cu ₂ ZnSnS ₄ .		

#	ARTICLE	IF	CITATIONS
19	Exploiting the Optical Limits of Thin-Film Solar Cells: A Review on Light Management Strategies in Cu(In,Ga)Se ₂ . Advanced Photonics Research, 2022, 3, .	3.6	15
20	Fluctuating potentials in GaAs:Si nanowires: critical reduction of the influence of polytypism on the electronic structure. Nanoscale, 2018, 10, 3697-3708.	5.6	13
21	Recombination Channels in Cu(In,Ga)Se ₂ Thin Films: Impact of the Ga-Profile. Journal of Physical Chemistry C, 2020, 124, 12295-12304.	3.1	11
22	On the Importance of Joint Mitigation Strategies for Front, Bulk, and Rear Recombination in Ultrathin Cu(In,Ga)Se ₂ Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 27713-27725.	8.0	11
23	Will ultrathin CIGS solar cells overtake the champion thin-film cells? Updated SCAPS baseline models reveal main differences between ultrathin and standard CIGS. Solar Energy Materials and Solar Cells, 2022, 243, 111792.	6.2	11
24	Encapsulation of Nanostructures in a Dielectric Matrix Providing Optical Enhancement in Ultrathin Solar Cells. Solar Rrl, 2020, 4, 2000310.	5.8	10
25	Muonium states in Cu ₂ ZnSnS ₄ solar cell material. Journal of Physics: Conference Series, 2014, 551, 012045.	0.4	8
26	Substrate and Mg doping effects in GaAs nanowires. Beilstein Journal of Nanotechnology, 2017, 8, 2126-2138.	2.8	7
27	Synthesis and formation mechanism of CuInSe ₂ nanowires by one-step self-catalysed evaporation growth. CrystEngComm, 2016, 18, 7147-7153.	2.6	6
28	Silicon Nanoparticle Films Infilled with Al ₂ O ₃ Using Atomic Layer Deposition for Photosensor, Light Emission, and Photovoltaic Applications. ACS Applied Nano Materials, 2020, 3, 5033-5044.	5.0	6
29	Optical and structural investigation of Cu ₂ ZnSnS ₄ based solar cells. Physica Status Solidi (B): Basic Research, 2016, 253, 2129-2135.	1.5	4
30	Rapid Shutdown with Panel Level Electronics-A suitable safety measure?. , 2017, , .		4
31	CuInSe ₂ quantum dots grown by molecular beam epitaxy on amorphous SiO ₂ surfaces. Beilstein Journal of Nanotechnology, 2019, 10, 1103-1111.	2.8	4
32	SiO _x Patterned Based Substrates Implemented in Cu(In,Ga)Se ₂ Ultrathin Solar Cells: Optimum Thickness. IEEE Journal of Photovoltaics, 2022, 12, 954-961.	2.5	4
33	Growth of CuInSe ₂ nanowires without external catalyst by molecular beam epitaxy. , 2016, , .		2
34	Characterization of the Interfacial Defect Layer in Chalcopyrite Solar Cells by Depth-Resolved Muon Spin Spectroscopy. Advanced Materials Interfaces, 0, , 2200374.	3.7	2
35	Process Induced Deflection and Stress on Encapsulated Solar Cells. , 2017, , .		1
36	SiO _x patterned based substrates implemented in Cu(In, Ga)Se ₂ ultrathin solar cells: optimum thickness. , 2021, , .		1

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37	Influence of CdS and Znx/>Sn$1 \hat{x}$/>Oy/> buffer layers on the photoluminescence of Cu(In, Ga)Se2/> thin films. , 2016, , .		0
38	X-ray Photoelectron Spectroscopy for Studying Passivation Architectures of Cu(In,Ga)Se2 Cells. , 2021, , .		0