

Antonio Cunha

List of Publications by Year in descending order

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44
papers

3,952
citations

185998

28
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276539

41
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44
all docs

44
docs citations

44
times ranked

3566
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of polycrystalline Cu ₂ ZnSnS ₄ films by Raman scattering. Journal of Alloys and Compounds, 2011, 509, 7600-7606.	2.8	631
2	Growth and Raman scattering characterization of Cu ₂ ZnSnS ₄ thin films. Thin Solid Films, 2009, 517, 2519-2523.	0.8	484
3	A study of ternary Cu ₂ Sn ₃ and Cu ₃ Sn ₄ thin films prepared by sulfurizing stacked metal precursors. Journal Physics D: Applied Physics, 2010, 43, 215403.	1.3	434
4	Efficiency enhancement of Cu(In,Ga)Se ₂ solar cells due to post-deposition Na incorporation. Applied Physics Letters, 2004, 84, 1129-1131.	1.5	285
5	Comparative study of ITO layers deposited by DC and RF magnetron sputtering at room temperature. Journal of Non-Crystalline Solids, 2006, 352, 1466-1470.	1.5	147
6	Sodium incorporation strategies for CIGS growth at different temperatures. Thin Solid Films, 2005, 480-481, 55-60.	0.8	145
7	Photoluminescence and electrical study of fluctuating potentials in Cu ₂ ZnSnS ₄ thin films. Physical Review B, 2011, 84, 045407.	1.1	138
8	Cu _x Sn _{x+1} (x = 2, 3) thin films grown by sulfurization of metallic precursors deposited by dc magnetron sputtering. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 901-904.	0.8	133
9	Thermodynamic pathway for the formation of SnSe and SnSe ₂ polycrystalline thin films by selenization of metal precursors. CrystEngComm, 2013, 15, 10278.	1.3	129
10	Morphological and structural characterization of Cu ₂ ZnSnSe ₄ thin films grown by selenization of elemental precursor layers. Thin Solid Films, 2009, 517, 2531-2534.	0.8	109
11	Precursors' order effect on the properties of sulfurized Cu ₂ ZnSn ₄ thin films. Semiconductor Science and Technology, 2009, 24, 105013.	1.0	109
12	Growth and characterization of Cu ₂ ZnSn(S,Se) ₄ thin films for solar cells. Solar Energy Materials and Solar Cells, 2012, 101, 147-153.	3.0	105
13	Secondary crystalline phases identification in Cu ₂ ZnSnSe ₄ thin films: contributions from Raman scattering and photoluminescence. Journal of Materials Science, 2014, 49, 7425-7436.	1.7	99
14	Cu ₂ ZnSnS ₄ solar cells prepared with sulphurized dc-sputtered stacked metallic precursors. Thin Solid Films, 2011, 519, 7382-7385.	0.8	92
15	Hopping conduction and persistent photoconductivity in Cu ₂ ZnSn ₄ thin films. Journal Physics D: Applied Physics, 2013, 46, 155107.	1.3	86
16	Admittance spectroscopy of Cu ₂ ZnSnS ₄ based thin film solar cells. Applied Physics Letters, 2012, 100, .	1.5	82
17	Effects of sulphurization time on Cu ₂ ZnSnS ₄ absorbers and thin films solar cells obtained from metallic precursors. Solar Energy Materials and Solar Cells, 2013, 115, 157-165.	3.0	64
18	A voltammetric study of the electrodeposition of CuInSe ₂ in a citrate electrolyte. Thin Solid Films, 2002, 405, 129-134.	0.8	59

#	ARTICLE	IF	CITATIONS
19	Assessment of the potential of tin sulphide thin films prepared by sulphurization of metallic precursors as cell absorbers. <i>Thin Solid Films</i> , 2011, 519, 7416-7420.	0.8	58
20	Growth pressure dependence of Cu ₂ ZnSnSe ₄ properties. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 2176-2180.	3.0	55
21	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.	4.4	53
22	Mo bilayer for thin film photovoltaics revisited. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 345501.	1.3	52
23	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
24	Study of optical and structural properties of Cu ₂ ZnSnS ₄ thin films. <i>Thin Solid Films</i> , 2011, 519, 7390-7393.	0.8	47
25	Solution-Processed Networks of Silicon Nanocrystals: The Role of Internanocrystal Medium on Semiconducting Behavior. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20120-20127.	1.5	41
26	Influence of selenization pressure on the growth of Cu ₂ ZnSnSe ₄ films from stacked metallic layers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, NA-NA.	0.8	36
27	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, .	1.5	34
28	The influence of hydrogen in the incorporation of Zn during the growth of Cu ₂ ZnSnS ₄ thin films. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3482-3489.	3.0	33
29	Optical and structural analysis of porous silicon coated with GZO films using rf magnetron sputtering. <i>Thin Solid Films</i> , 2007, 515, 8664-8669.	0.8	28
30	Slow-muon study of quaternary solar-cell materials: Single layers and p-n junctions. <i>Physical Review Materials</i> , 2018, 2, .	0.9	23
31	Elastic and optical properties of Cu ₂ ZnSn(S _x) _{1-x} ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Technology, 2012, 27, 115001.	1.0	20
32	Cu ₂ ZnSnS ₄ absorber layers obtained through sulphurization of metallic precursors: Graphite box versus sulphur flux. <i>Thin Solid Films</i> , 2013, 535, 27-30.	0.8	18
33	Performance comparison of hybrid sputtering/evaporation CuIn _{1-x} Ga _x Se ₂ solar cells with different transparent conducting oxide window layers. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1976-1980.	1.5	14
34	Synthesis, characterization and electrochemical properties of meso-thiocarboxylate-substituted porphyrin derivatives. <i>Journal of Porphyrins and Phthalocyanines</i> , 2014, 18, 967-974.	0.4	13
35	ZnO nanostructures for photovoltaic cells. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1633-1636.	0.7	12
36	Muonium states in Cu ₂ ZnSnS ₄ solar cell material. <i>Journal of Physics: Conference Series</i> , 2014, 551, 012045.	0.3	8

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37	Î²-(p-Carboxyaminophenyl)porphyrin derivatives: new dyes for TiO ₂ dye-sensitized solar cells. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	7
38	Cu(In,Ga)Se ₂ ; Prepared by a 2 and 3-Stage Hybrid RF-Magnetron Sputtering and Se Evaporation Method: Properties and Solar Cell Performance. Materials Science Forum, 2006, 514-516, 93-97.	0.3	6
39	Incorporation of Ga in CIGS Absorber Layers Formed by RF-Magnetron Sputtering in Se Vapours. Materials Science Forum, 2008, 587-588, 323-327.	0.3	4
40	Microwave shielding of fluorine-doped tin oxide film obtained by spray pyrolysis studied by electrical characterization. Journal of Applied Physics, 2009, 105, .	1.1	4
41	Optical and structural investigation of Cu ₂ ZnSnS ₄ based solar cells. Physica Status Solidi (B): Basic Research, 2016, 253, 2129-2135.	0.7	4
42	Novel dielectrics compounds grown by atomic layer deposition as sustainable materials for chalcogenides thin-films photovoltaics technologies. , 2021, , 71-100.		2
43	ZnO micro/nanocrystals grown by laser assisted flow deposition. , 2014, , .		1
44	Detection of ZnS phases in CZTS thin-films by EXAFS. , 2011, , .		0