Antonio Cunha

List of Publications by Year
in descending order

44 papers	3,952 citations	185998 28 h-index	276539 41 g-index
44 all docs	44 docs citations	44 times ranked	3566 citing authors

#	Article	IF	Citations
1	Novel dielectrics compounds grown by atomic layer deposition as sustainable materials for chalcogenides thin-films photovoltaics technologies. , 2021, , 71-100.		2
2	Slow-muon study of quaternary solar-cell materials: Single layers and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>p</mml:mi><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mi junctions. Physical Review Materials, 2018, 2, .	2.9	23
3	Optical and structural investigation of Cu₂ZnSnS₄ based solar cells. Physica Status Solidi (B): Basic Research, 2016, 253, 2129-2135.	0.7	4
4	A comparison between thin film solar cells made from coâ€evaporated CuIn_{1â€x}Ga_xSe₂ using a oneâ€stage process versus a threeâ€stage process. Progress in Photovoltaics: Research and Applications, 2015, 23, 470-478.	4.4	53
5	Muonium states in Cu₂ZnSnS₄solar cell material. Journal of Physics: Conference Series, 2014, 551, 012045.	0.3	8
6	Synthesis, characterization and electrochemical properties of meso-thiocarboxylate-substituted porphyrin derivatives. Journal of Porphyrins and Phthalocyanines, 2014, 18, 967-974.	0.4	13
7	Radiative transitions in highly doped and compensated chalcopyrites and kesterites: The case of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">Cu</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">ZnSnS</mml:mi></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 90, .	3.7	48
8	Î²-(p-Carboxyaminophenyl)porphyrin derivatives: new dyes for TiO2 dye-sensitized solar cells. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	7
9	ZnO micro/nanocrystals grown by laser assisted flow deposition. , 2014, , .		1
10	Comparison of fluctuating potentials and donor-acceptor pair transitions in a Cu-poor Cu2ZnSnS4 based solar cell. Applied Physics Letters, 2014, 105, .	1.5	34
11	Secondary crystalline phases identification in Cu $$_2$$ 2 ZnSnSe $$_4$$ 4 thin films: contributions from Raman scattering and photoluminescence. Journal of Materials Science, 2014, 49, 7425-7436.	1.7	99
12	Thermodynamic pathway for the formation of SnSe and SnSe2 polycrystalline thin films by selenization of metal precursors. CrystEngComm, 2013, 15, 10278.	1.3	129
13	Cu2ZnSnS4 absorber layers obtained through sulphurization of metallic precursors: Graphite box versus sulphur flux. Thin Solid Films, 2013, 535, 27-30.	0.8	18
14	Hopping conduction and persistent photoconductivity in Cu₂ZnSnS₄thin films. Journal Physics D: Applied Physics, 2013, 46, 155107.	1.3	86
15	Effects of sulphurization time on Cu2ZnSnS4 absorbers and thin films solar cells obtained from metallic precursors. Solar Energy Materials and Solar Cells, 2013, 115, 157-165.	3.0	64
16	Elastic and optical properties of Cu₂ZnSn(Se_xS<sub>1) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (Technology, 2012, 27, 115001.	1.0	20
17	Admittance spectroscopy of Cu2ZnSnS4 based thin film solar cells. Applied Physics Letters, 2012, 100, .	1.5	82
18	Growth and characterization of Cu2ZnSn(S,Se)4 thin films for solar cells. Solar Energy Materials and Solar Cells, 2012, 101, 147-153.	3.0	105

#	Article	IF	Citations
19	Solution-Processed Networks of Silicon Nanocrystals: The Role of Internanocrystal Medium on Semiconducting Behavior. Journal of Physical Chemistry C, 2011, 115, 20120-20127.	1.5	41
20	Detection of ZnS phases in CZTS thin-films by EXAFS. , 2011, , .		0
21	Study of polycrystalline Cu2ZnSnS4 films by Raman scattering. Journal of Alloys and Compounds, 2011, 509, 7600-7606.	2.8	631
22	The influence of hydrogen in the incorporation of Zn during the growth of Cu2ZnSnS4 thin films. Solar Energy Materials and Solar Cells, 2011, 95, 3482-3489.	3.0	33
23	Cu2ZnSnS4 solar cells prepared with sulphurized dc-sputtered stacked metallic precursors. Thin Solid Films, 2011, 519, 7382-7385.	0.8	92
24	Study of optical and structural properties of Cu2ZnSnS4 thin films. Thin Solid Films, 2011, 519, 7390-7393.	0.8	47
25	Assessment of the potential of tin sulphide thin films prepared by sulphurization of metallic precursors as cell absorbers. Thin Solid Films, 2011, 519, 7416-7420.	0.8	58
26	Photoluminescence and electrical study of fluctuating potentials in Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>ZnSnS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>-based thin films. Physical Review B, 2011, 84, .	1.1	138
27	Growth pressure dependence of Cu2ZnSnSe4 properties. Solar Energy Materials and Solar Cells, 2010, 94, 2176-2180.	3.0	55
28	ZnO nanostructures for photovoltaic cells. Physica Status Solidi (B): Basic Research, 2010, 247, 1633-1636.	0.7	12
29	Cu_xSnS_{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
30	Influence of selenization pressure on the growth of Cu2ZnSnSe4films from stacked metallic layers. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, NA-NA.	0.8	36
31	A study of ternary Cu₂SnS₃ and Cu₃SnS₄ thin films prepared by sulfurizing stacked metal precursors. Journal Physics D: Applied Physics, 2010, 43, 215403.	1.3	434
32	Mo bilayer for thin film photovoltaics revisited. Journal Physics D: Applied Physics, 2010, 43, 345501.	1.3	52
33	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
34	Morphological and structural characterization of Cu2ZnSnSe4 thin films grown by selenization of elemental precursor layers. Thin Solid Films, 2009, 517, 2531-2534.	0.8	109
35	Growth and Raman scattering characterization of Cu2ZnSnS4 thin films. Thin Solid Films, 2009, 517, 2519-2523.	0.8	484
36	Precursors' order effect on the properties of sulfurized Cu₂ZnSnS₄thin films. Semiconductor Science and Technology, 2009, 24, 105013.	1.0	109

#	Article	IF	Citations
37	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
38	Optical and structural analysis of porous silicon coated with GZO films using rf magnetron sputtering. Thin Solid Films, 2007, 515, 8664-8669.	0.8	28
39	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
40	Performance comparison of hybrid sputtering/evaporation CuIn1âˆ’xGaxSe2 solar cells with different transparent conducting oxide window layers. Journal of Non-Crystalline Solids, 2006, 352, 1976-1980.	1.5	14
41	Cu(In,Ga)Se₂ 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
42	Sodium incorporation strategies for CIGS growth at different temperatures. Thin Solid Films, 2005, 480-481, 55-60.	0.8	145
43	Efficiency enhancement of Cu(In,Ga)Se2 solar cells due to post-deposition Na incorporation. Applied Physics Letters, 2004, 84, 1129-1131.	1.5	285
44	A voltammetric study of the electrodeposition of CuInSe2 in a citrate electrolyte. Thin Solid Films, 2002, 405, 129-134.	0.8	59