Cristy Leonor Azanza Ricardo

List of Publications by Year
in descending order

38 papers	1,246 citations	471061 17 h-index	377514 34 g-index
40 all docs	40 docs citations	40 times ranked	1941 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	Reverse bending fatigue of shot peened 7075-T651 aluminium alloy: The role of residual stress relaxation. International Journal of Fatigue, 2009, 31, 1225-1236.	2.8	137
4	Morphology, structure and chemistry of extracted diesel sootâ€"Part I: Transmission electron microscopy, Raman spectroscopy, X-ray photoelectron spectroscopy and synchrotron X-ray diffraction study. Tribology International, 2012, 52, 29-39.	3.0	100
5	The potential of polyurethane bio-based solid polymer electrolyte for photoelectrochemical cell application. International Journal of Hydrogen Energy, 2014, 39, 3005-3017.	3.8	76
6	Nitrogen doped Cu2O: A possible material for intermediate band solar cells?. Solar Energy Materials and Solar Cells, 2012, 105, 192-195.	3.0	67
7	Residual stresses in HVOF-sprayed ceramic coatings. Surface and Coatings Technology, 2008, 202, 4810-4819.	2.2	57
8	Modeling of the planetary ball-milling process: The case study of ceramic powders. Journal of the European Ceramic Society, 2016, 36, 2205-2212.	2.8	56
9	Fabrication of Cu2ZnSnS4 solar cells by sulfurization of evaporated precursors. Energy Procedia, 2011, 10, 187-191.	1.8	44
10	Whole powder pattern modelling macros for TOPAS. Journal of Applied Crystallography, 2018, 51, 1752-1765.	1.9	44
11	Effect of annealing and nanostructuring on pulsed laser deposited WS2 for HER catalysis. Applied Catalysis A: General, 2016, 510, 156-160.	2.2	39
12	Real-space calculation of powder diffraction patterns on graphics processing units. Journal of Applied Crystallography, 2010, 43, 647-653.	1.9	37
13	Production of Cu2(Zn,Fe)SnS4 powders for thin film solar cell by high energy ball milling. Journal of Power Sources, 2013, 230, 70-75.	4.0	29
14	Stoichiometry effect on Cu2ZnSnS4 thin films morphological and optical properties. Journal of Renewable and Sustainable Energy, 2014, 6, .	0.8	28
15	Blistering in Cu 2 ZnSnS 4 thin films: correlation with residual stresses. Materials and Design, 2016, 108, 725-735.	3.3	28
16	Structural properties of RF-magnetron sputtered Cu2O thin films. Thin Solid Films, 2011, 520, 280-286.	0.8	25
17	Correlation between microstructure and bioequivalence in Anti-HIV Drug Efavirenz. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 91, 52-58.	2.0	18
18	Revision and extension of the standard laboratory technique for X-ray diffraction measurement of residual stress gradients. Journal of Applied Crystallography, 2007, 40, 675-683.	1.9	15

#	Article	IF	Citations
19	A water- and sulfurization-free solution route to Cu2-xZn1+xSnS4. Journal of Sol-Gel Science and Technology, 2014, 72, 490-495.	1.1	12
20	Elastic grain interaction in electrodeposited nanocomposite Nickel matrix coatings. Surface and Coatings Technology, 2012, 206, 2499-2505.	2.2	10
21	Autoacceleration in Bulk Freeâ€Radical Polymerization: Effect of Chain Transfer. Macromolecular Chemistry and Physics, 2018, 219, 1700434.	1.1	10
22	On the algebra of binary codes representing close-packed stacking sequences. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, 201-208.	0.3	9
23	Epidemiological Characteristics of COVID-19 in Mexico and the Potential Impact of Lifting Confinement Across Regions. Frontiers in Physics, 2020, 8, .	1.0	9
24	Measurement of stress factors and residual stress of a film byin situX-ray diffraction during four-point bending. Journal of Applied Crystallography, 2009, 42, 1102-1109.	1.9	7
25	Chloride-based route for monodisperse Cu2ZnSnS4 nanoparticles preparation. Journal of Renewable and Sustainable Energy, 2015, 7, .	0.8	7
26	Residual Stress Depth-Profiling in Shot-Peened Al Alloy Components Subjected to Fatigue Testing. Materials Science Forum, 0, 638-642, 2464-2469.	0.3	5
27	Eco-friendly Production of Metallic Nanoparticles in Polymeric Solutions and Their Processing into Biocompatible Composites. Fibers and Polymers, 2018, 19, 156-169.	1.1	5
28	On the diffusive step of free-radical entry in emulsion polymerization and the applicability of the Smoluchowski rate coefficient. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 556, 134-139.	2.3	5
29	An alternative expression for counting the number of close-packed polytypes. Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, 592-595.	0.4	4
30	Influence of Shot-Peening Parameters on the Sub-Surface Residual Stress Profiles in Al-7075 Alloy Components. Materials Science Forum, 0, 768-769, 66-71.	0.3	3
31	Analysis of Residual Stress-Texture Relationships in Thin Films. Advanced Materials Research, 0, 89-91, 425-430.	0.3	2
32	Thin Film Stress and Texture Analysis at the MCX Synchrotron Radiation Beamline at ELETTRA. Materials Science Forum, 0, 681, 115-120.	0.3	2
33	Residual stress and texture in Aluminum doped Zinc Oxide layers deposited by reactive radio frequency magnetron sputtering. Thin Solid Films, 2016, 605, 169-172.	0.8	2
34	Partial and Total Substitution of Zn by Mg in the Cu2ZnSnS4 Structure. Crystals, 2020, 10, 578.	1.0	2
35	Sub-Surface Residual Stress Gradients: Advances in Laboratory XRD Methods. Materials Science Forum, 2006, 524-525, 25-30.	0.3	1
36	Stress gradients and grain interaction determination in electrodeposited coatings by synchrotron radiation. Thin Solid Films, 2013, 530, 66-70.	0.8	1

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37	Growth kinetics of Cu2ZnSnS4 thin films and powders. Powder Diffraction, 2013, 28, S228-S241.	0.4	1
38	Influence of Tempering Conditions on Shot-Peened Tool Steel Components In-Depth Residual Stress Profiles. Advanced Materials Research, 0, 996, 769-774.	0.3	0