

# G A Castillo-Rodríguez

## List of Publications by Year in descending order

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40  
papers

1,003  
citations

430874

18  
h-index

434195

31  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1078  
citing authors

#	ARTICLE	IF	CITATIONS
1	p-Type CuSbS <sub>2</sub> thin films by thermal diffusion of copper into Sb <sub>2</sub> S <sub>3</sub> . <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2001-2005.	6.2	104
2	On the structure, morphology, and optical properties of chemical bath deposited Sb <sub>2</sub> S <sub>3</sub> thin films. <i>Applied Surface Science</i> , 2008, 254, 3200-3206.	6.1	87
3	CuSbS <sub>2</sub> thin films by rapid thermal processing of Sb <sub>2</sub> S <sub>3</sub> -Cu stack layers for photovoltaic application. <i>Solar Energy Materials and Solar Cells</i> , 2017, 164, 19-27.	6.2	77
4	Thin films of copper antimony sulfide: A photovoltaic absorber material. <i>Materials Research Bulletin</i> , 2015, 61, 215-225.	5.2	60
5	Carbon-doped Sb <sub>2</sub> S <sub>3</sub> thin films: Structural, optical and electrical properties. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 33-36.	6.2	57
6	Structure and morphologies of ZnO nanoparticles synthesized by pulsed laser ablation in liquid: Effects of temperature and energy fluence. <i>Materials Chemistry and Physics</i> , 2015, 162, 561-570.	4.0	41
7	Effects of ablation energy and post-irradiation on the structure and properties of titanium dioxide nanomaterials. <i>Applied Surface Science</i> , 2017, 405, 183-194.	6.1	37
8	Effect of addition of Al <sub>2</sub> O <sub>3</sub> and Fe <sub>2</sub> O <sub>3</sub> nanoparticles on the microstructural and physico-chemical evolution of dense magnesia composite. <i>Ceramics International</i> , 2015, 41, 7751-7758.	4.8	33
9	Synthesis and Properties of Platinum Nanoparticles by Pulsed Laser Ablation in Liquid. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-11.	2.7	33
10	MgAl <sub>2</sub> O <sub>4</sub> spinel as an effective ceramic bonding in a MgO-CaZrO <sub>3</sub> refractory. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2767-2774.	5.7	32
11	CdS thin films prepared by laser assisted chemical bath deposition. <i>Applied Surface Science</i> , 2015, 336, 329-334.	6.1	32
12	Hercynite and magnesium aluminate spinels acting as a ceramic bonding in an electrofused MgO-CaZrO <sub>3</sub> refractory brick for the cement industry. <i>Ceramics International</i> , 2012, 38, 6769-6775.	4.8	31
13	CuSbS <sub>2</sub> thin films by heating Sb <sub>2</sub> S <sub>3</sub> /Cu layers for PV applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 4356-4362.	2.2	30
14	Microstructure and properties of hercynite-magnesia-calcium zirconate refractory mixtures. <i>Materials Characterization</i> , 2005, 54, 354-359.	4.4	28
15	Synthesis of silver nanoparticles and antimony oxide nanocrystals by pulsed laser ablation in liquid media. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 809-816.	2.3	25
16	Synthesis and properties of palladium nanoparticles by pulsed laser ablation in liquid. <i>Applied Surface Science</i> , 2015, 348, 45-53.	6.1	25
17	Copper antimony sulfide nanoparticles by pulsed laser ablation in liquid and their thin film for photovoltaic application. <i>Applied Surface Science</i> , 2019, 476, 94-106.	6.1	23
18	Nanoparticles of antimony sulfide by pulsed laser ablation in liquid media. <i>Journal of Materials Science</i> , 2013, 48, 6445-6453.	3.7	20

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19	Laser sintering of magnesia with nanoparticles of iron oxide and aluminum oxide. Applied Surface Science, 2015, 336, 59-66.	6.1	18
20	Modification of optical and electrical properties of chemical bath deposited CdS using plasma treatments. Thin Solid Films, 2011, 519, 7587-7591.	1.8	17
21	Synthesis and Characterization of Hercynite Nanoparticles by Pulsed Laser Ablation in Liquid Technique. International Journal of Applied Ceramic Technology, 2015, 12, E34.	2.1	17
22	Boron influence on wear resistance in nickel-based alloys. Wear, 2009, 267, 550-555.	3.1	16
23	Design of Blast Furnace Crucibles by Means of the Nodal Wear Model. ISIJ International, 2008, 48, 134-140.	1.4	15
24	Sb <sub>2</sub> S <sub>3</sub> :C/CdS p-n junction by laser irradiation. Thin Solid Films, 2009, 517, 2493-2496.	1.8	15
25	AgSb(S <sub>x</sub> Se <sub>1-x</sub> ) <sub>2</sub> thin films for solar cell applications. Materials Research Bulletin, 2013, 48, 1939-1945.	5.2	15
26	Photovoltaic structures using AgSb(S <sub>x</sub> Se <sub>1-x</sub> ) <sub>2</sub> thin films as absorber. Applied Physics A: Materials Science and Processing, 2014, 116, 2095-2105.	2.3	15
27	Development of an Ultra-Low Carbon MgO Refractory Doped with $\pm$ -Al <sub>2</sub> O <sub>3</sub> Nanoparticles for the Steelmaking Industry: A Microstructural and Thermo-Mechanical Study. Materials, 2020, 13, 715.	2.9	14
28	Coatings made of tungsten carbide and tantalum carbide for machining tools. Vacuum, 2010, 84, 1236-1239.	3.5	13
29	Research and Development of Novel Refractory of MgO Doped with ZrO <sub>2</sub> Nanoparticles for Copper Slag Resistance. Materials, 2021, 14, 2277.	2.9	13
30	Failure analysis of Co-Cr hip resurfacing prosthesis during solidification. Case Studies in Engineering Failure Analysis, 2013, 1, 1-5.	1.2	11
31	XPS Study on Calcining Mixtures of Brucite with Titania. Materials, 2022, 15, 3117.	2.9	11
32	In <sub>6</sub> Se <sub>7</sub> thin films by heating thermally evaporated indium and chemical bath deposited selenium multilayers. Applied Surface Science, 2012, 258, 5753-5758.	6.1	10
33	Modification of structure, morphology and physical properties of tin sulfide thin films by pulsed laser irradiation. Applied Physics A: Materials Science and Processing, 2013, 110, 667-672.	2.3	9
34	Thermal modelling of a torpedo-car. Revista De Metalurgia, 2005, 41, 449-455.	0.5	8
35	MgO Refractory Doped with ZrO <sub>2</sub> Nanoparticles: Influence of Cold Isostatic and Uniaxial Pressing and Sintering Temperature in the Physical and Chemical Properties. Metals, 2019, 9, 1297.	2.3	6
36	INDIUM SELENIDE THIN FILMS BY LASER IRRADIATION OF In/Se LAYERED STRUCTURE. Surface Review and Letters, 2013, 20, 1350058.	1.1	3

#	ARTICLE	IF	CITATIONS
37	MgO-ZrO <sub>2</sub> Ceramic Composites for Silicomanganese Production. Materials, 2022, 15, 2421.	2.9	2
38	Copper Indium Diselenide thin films using a hybrid method of chemical bath deposition and thermal evaporation. Materials Research Society Symposia Proceedings, 2011, 1324, 121.	0.1	0
39	Influence of Oxide Nanoparticles of Fe, Al and Si on the Sintered Magnesia for the Production of Refractory Material to Be Used in Secondary Ladle Metallurgy. Materials Research Society Symposia Proceedings, 2012, 1371, 117.	0.1	0
40	Corrosion Mechanisms in Refractory Castables by Liquid Oxides. , 2016, , 1053-1061.		0