

# Juan-Maria Gonzalez-Leal

## List of Publications by Year in descending order

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61  
papers

1,198  
citations

304743

22  
h-index

395702

33  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1155  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of Thermodynamic Characteristics of Phase-stabilized Ammonium Nitrate-Based High-energy Solid Combustible Materials. <i>Combustion Science and Technology</i> , 2022, 194, 768-784.	2.3	5
2	Radiometric analysis of haze in bright-annealed AISI 430 ferritic stainless steel. <i>Applied Optics</i> , 2022, 61, 2155.	1.8	1
3	Analysis and comparison of monofocal, extended depth of focus and trifocal intraocular lens profiles. <i>Scientific Reports</i> , 2022, 12, .	3.3	6
4	Characterisation of High Temperature Oxidation Phenomena during AISI 430 Stainless Steel Manufacturing under a Controlled H <sub>2</sub> Atmosphere for Bright Annealing. <i>Metals</i> , 2021, 11, 191.	2.3	5
5	Analysis of the Visual Appearance of AISI 430 Ferritic Stainless Steel Flat Sheets Manufactured by Cool Rolling and Bright Annealing. <i>Metals</i> , 2021, 11, 1058.	2.3	6
6	Enhanced Artificial Enzyme Activities on the Reconstructed Sawtoothlike Nanofacets of Pure and Pr-Doped Ceria Nanocubes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38061-38073.	8.0	13
7	Characterization of plastic beach litter by Raman spectroscopy in South-western Spain. <i>Science of the Total Environment</i> , 2020, 744, 140890.	8.0	28
8	Selective oxidation of glycerol on morphology controlled ceria nanomaterials. <i>Catalysis Science and Technology</i> , 2019, 9, 2328-2334.	4.1	21
9	Insights into the annealing process of sol-gel TiO <sub>2</sub> films leading to anatase development: The interrelationship between microstructure and optical properties. <i>Applied Surface Science</i> , 2018, 439, 736-748.	6.1	19
10	Low temperature prepared copper-iron mixed oxides for the selective CO oxidation in the presence of hydrogen. <i>Applied Catalysis A: General</i> , 2018, 552, 58-69.	4.3	23
11	A new analytical technique for the extraction and quantification of microplastics in marine sediments focused on easy implementation and repeatability. <i>Analytical Methods</i> , 2017, 9, 6371-6378.	2.7	25
12	Highly stable ceria-zirconia-yttria supported Ni catalysts for syngas production by CO <sub>2</sub> reforming of methane. <i>Applied Surface Science</i> , 2017, 426, 864-873.	6.1	46
13	Influence of methane concentration on MPCVD overgrowth of 100° oriented etched diamond substrates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2570-2574.	1.8	12
14	Carbon integral honeycomb monoliths as support of copper catalysts in the Kharasch-Sosnovsky oxidation of cyclohexene. <i>Chemical Engineering Journal</i> , 2016, 290, 174-184.	12.7	7
15	TEM study of defects versus growth orientations in heavily boron-doped diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2468-2473.	1.8	16
16	Improving Magneto-optical Faraday Effect of maghemite/silica nanocomposites. <i>Materials Chemistry and Physics</i> , 2015, 154, 1-9.	4.0	9
17	Green and fast synthesis of amino-functionalized graphene quantum dots with deep blue photoluminescence. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	27
18	Photocatalytic TiO <sub>2</sub> sol-gel thin films: Optical and morphological characterization. <i>Solar Energy</i> , 2015, 122, 11-23.	6.1	57

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19	Surface and conformational characteristics of $As_{40}S_{60}$ glass films prepared by continuous-wave laser deposition. <i>Materials Research Express</i> , 2014, 1, 015201.	1.6	5
20	The Wemple–DiDomenico model as a tool to probe the building blocks conforming a glass. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1044-1051.	1.5	21
21	Design considerations for tailoring the thickness profile of transparent dielectric deposits by continuous-wave laser deposition. <i>Journal of Applied Physics</i> , 2013, 113, 013108.	2.5	2
22	Study of the growth of infrared-transparent non-spheric layer lenses by continuous-wave laser deposition. <i>Thin Solid Films</i> , 2012, 520, 5512-5515.	1.8	3
23	Influence of substrate absorption on accuracy of determination of refractive index and thickness of uniform thin chalcogenide $Cu_{1}[As_{2}(S_{0.5}Se_{0.5})_3]_{99}$ film. <i>Thin Solid Films</i> , 2010, 518, 5679-5682.	1.8	1
24	Study of the fabrication of infrared-transparent dielectric aspheric deposits by continuous-wave laser deposition. <i>Thin Solid Films</i> , 2010, 518, 5530-5534.	1.8	3
25	Fabrication of Aspheric Deposits by CW Laser Deposition. , 2010, , .		0
26	Light-induced changes in the structure and optical dispersion and absorption of amorphous $As_{40}S_{20}Se_{40}$ thin films. <i>Materials Chemistry and Physics</i> , 2009, 115, 751-756.	4.0	15
27	Light structured deposition (1): Material properties. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1989-1992.	3.1	4
28	Light structured deposition (2): Material optical functionality. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1966-1968.	3.1	1
29	Optical properties of amorphous $(As_{0.33}S_{0.67})_{100-x}Te_x$ ( $x=0, 1, 5$ and $10$ ) chalcogenide thin films, photodoped step-by-step with silver. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 503-508.	3.1	56
30	Fabrication of axicons by cw laser effusion. <i>Optics Letters</i> , 2007, 32, 2384.	3.3	6
31	Optical functionalities of dielectric material deposits obtained from a Lambertian evaporation source. <i>Optics Express</i> , 2007, 15, 5451.	3.4	8
32	Single oscillator energy and dispersion energy of uniform thin chalcogenide films from $Cu-As-S-Te-Se$ system. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1466-1469.	3.1	11
33	Preparation and optical dispersion and absorption of Ag-photodoped $Ge_xSb_{40-x}S_{60}$ ( $x=10, 20$ and $30$ ) chalcogenide glass thin films. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5351-5357.	2.8	24
34	Structural domains and electronic contributions in amorphous chalcogenides. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 987-992.	4.0	13
35	Optical properties and structure of amorphous $(As_{0.33}S_{0.67})_{100-x}Te_x$ and $Ge_xSb_{40-x}S_{60}$ chalcogenide semiconducting alloy films deposited by vacuum thermal evaporation. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 1793-1799.	2.8	25
36	Low-frequency optical dielectric response and rigidity transitions in network glasses. <i>Physical Review B</i> , 2006, 74, .	3.2	10

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37	Influence of the deposition technique on the structural and optical properties of amorphous AsS films. Applied Surface Science, 2005, 246, 348-355.	6.1	22
38	Optical and structural characterisation of single and multilayer germanium/silicon monoxide systems. Thin Solid Films, 2005, 485, 274-283.	1.8	23
39	Automated system for the study of volume holographic recording. Review of Scientific Instruments, 2004, 75, 2899-2902.	1.3	0
40	Determination of the surface roughness and refractive index of amorphous As <sub>40</sub> S <sub>60</sub> films deposited by spin coating. Optical Materials, 2004, 27, 147-154.	3.6	29
41	Structural and optical characterization of amorphous As <sub>40</sub> S <sub>60</sub> and As <sub>40</sub> Se <sub>60</sub> films prepared by plasma-enhanced chemical vapor deposition. Journal of Non-Crystalline Solids, 2004, 345-346, 88-92.	3.1	22
42	Análisis de las dependencias composicionales de las propiedades ópticas de láminas semiconductoras amorfas del sistema As-S-Se. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2004, 43, 357-362.	1.9	1
43	Optical properties of thermally evaporated amorphous As <sub>40</sub> S <sub>60</sub> <sup>x</sup> Se <sub>x</sub> films. Journal of Non-Crystalline Solids, 2003, 315, 134-143.	3.1	69
44	Thermal relaxation of the structural and optical properties of amorphous As <sub>40</sub> S <sub>60</sub> <sup>x</sup> Se <sub>x</sub> films. Journal of Non-Crystalline Solids, 2003, 326-327, 146-153.	3.1	17
45	HOLOMETER: measurement apparatus for the evaluation of chalcogenide glasses as holographic recording media. Journal of Non-Crystalline Solids, 2003, 326-327, 416-424.	3.1	14
46	Influence of substrate absorption on the optical and geometrical characterization of thin dielectric films. Applied Optics, 2002, 41, 7300.	2.1	62
47	Method for determining the optical constants of thin dielectric films with variable thickness using only their shrunk reflection spectra. Journal Physics D: Applied Physics, 2001, 34, 2489-2496.	2.8	42
48	Controlling the optical constants of thermally-evaporated Ge <sub>10</sub> Sb <sub>30</sub> S <sub>60</sub> chalcogenide glass films by photodoping with silver. Journal of Non-Crystalline Solids, 2000, 274, 62-68.	3.1	59
49	The kinetics of the photo-induced solid-state chemical reaction in Ag/As <sub>33</sub> S <sub>67</sub> bilayers and its reaction products. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 223-237.	0.6	28
50	Optical Constants in the Subgap Region and Vibrational Behaviour by Far-Infrared Spectroscopy of Wedge-Shaped Obliquely-Deposited Amorphous GeS <sub>2</sub> Films. Physica Scripta, 1999, 60, 90-96.	2.5	8
51	Calculation and analysis of the complex refractive index of uniform films of the As <sup>x</sup> S <sup>60-x</sup> Se <sup>x</sup> glassy alloy deposited by thermal evaporation. Surface and Coatings Technology, 1999, 122, 60-66.	4.8	4
52	Reversible and athermal photo-vitrification of As <sub>50</sub> Se <sub>50</sub> thin films deposited onto silicon wafer and glass substrates. Applied Physics A: Materials Science and Processing, 1999, 68, 653-661.	2.3	15
53	Optical-constant calculation of non-uniform thickness thin films of the Ge <sub>10</sub> As <sub>15</sub> Se <sub>75</sub> chalcogenide glassy alloy in the sub-band-gap region (0.1 eV–1.8 eV). Materials Chemistry and Physics, 1999, 60, 231-239.	4.0	83
54	Optical properties of thin-film ternary Ge <sub>10</sub> As <sub>15</sub> Se <sub>75</sub> chalcogenide glasses. Materials Letters, 1999, 39, 232-239.	2.6	35

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55	On the photo- and thermally-induced darkening phenomena in As <sub>40</sub> S <sub>40</sub> Se <sub>20</sub> amorphous chalcogenide thin films. Journal Physics D: Applied Physics, 1999, 32, 3128-3134.	2.8	21
56	The kinetics of the photo-induced solid-state chemical reaction in Ag/As <sub>33</sub> S <sub>67</sub> bilayers and its reaction products. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 223-237.	0.6	3
57	Optical characterization of thermally evaporated thin films of As <sub>40</sub> S <sub>40</sub> Se <sub>20</sub> chalcogenide glass by reflectance measurements. Applied Physics A: Materials Science and Processing, 1998, 67, 371-378.	2.3	24
58	Derivation of the optical constants of thermally-evaporated uniform films of binary chalcogenide glasses using only their reflection spectra. Thin Solid Films, 1998, 317, 223-227.	1.8	35
59	Optical properties of non-uniform thickness thin films of the glass-alloy system Cu-As-Se. Physica Scripta, 1997, 55, 108-113.	2.5	2
60	Refractive-index dispersion and the optical-absorption edge of wedge-shaped thin films of metal-chalcogenide glasses. Journal Physics D: Applied Physics, 1997, 30, 690-702.	2.8	34
61	Optical reflectivity monitoring of the Ag-photodissolution kinetics in As <sub>30</sub> S <sub>70</sub> chalcogenide glass films. Materials Letters, 1995, 25, 143-146.	2.6	4