

Juan-Maria Gonzalez-Leal

List of Publications by Year in descending order

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61
papers

1,198
citations

304602

22
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395590

33
g-index

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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.	1.2	5
2	Radiometric analysis of haze in bright-annealed AISI 430 ferritic stainless steel. <i>Applied Optics</i> , 2022, 61, 2155.	0.9	1
3	Analysis and comparison of monofocal, extended depth of focus and trifocal intraocular lens profiles. <i>Scientific Reports</i> , 2022, 12, .	1.6	6
4	Characterisation of High Temperature Oxidation Phenomena during AISI 430 Stainless Steel Manufacturing under a Controlled H ₂ Atmosphere for Bright Annealing. <i>Metals</i> , 2021, 11, 191.	1.0	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.	1.0	6
6	Enhanced Artificial Enzyme Activities on the Reconstructed Sawtoothlike Nanofacets of Pure and Pr-Doped Ceria Nanocubes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38061-38073.	4.0	13
7	Characterization of plastic beach litter by Raman spectroscopy in South-western Spain. <i>Science of the Total Environment</i> , 2020, 744, 140890.	3.9	28
8	Selective oxidation of glycerol on morphology controlled ceria nanomaterials. <i>Catalysis Science and Technology</i> , 2019, 9, 2328-2334.	2.1	21
9	Insights into the annealing process of sol-gel TiO ₂ films leading to anatase development: The interrelationship between microstructure and optical properties. <i>Applied Surface Science</i> , 2018, 439, 736-748.	3.1	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.	2.2	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.	1.3	25
12	Highly stable ceria-zirconia-yttria supported Ni catalysts for syngas production by CO ₂ reforming of methane. <i>Applied Surface Science</i> , 2017, 426, 864-873.	3.1	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.	0.8	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.	6.6	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.	0.8	16
16	Improving Magneto-optical Faraday Effect of maghemite/silica nanocomposites. <i>Materials Chemistry and Physics</i> , 2015, 154, 1-9.	2.0	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.	0.8	27
18	Photocatalytic TiO ₂ sol-gel thin films: Optical and morphological characterization. <i>Solar Energy</i> , 2015, 122, 11-23.	2.9	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.	0.8	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.	0.7	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.	1.1	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.	0.8	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.	0.8	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.	0.8	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.	2.0	15
27	Light structured deposition (1): Material properties. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1989-1992.	1.5	4
28	Light structured deposition (2): Material optical functionality. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1966-1968.	1.5	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.	1.5	56
30	Fabrication of axicons by cw laser effusion. <i>Optics Letters</i> , 2007, 32, 2384.	1.7	6
31	Optical functionalities of dielectric material deposits obtained from a Lambertian evaporation source. <i>Optics Express</i> , 2007, 15, 5451.	1.7	8
32	Single oscillator energy and dispersion energy of uniform thin chalcogenide films from Cu–As–S–Se system. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1466-1469.	1.5	11
33	Preparation and optical dispersion and absorption of Ag-photodoped Ge _x Sb _{40-x} S ₆₀ (x= 10, 20 and 30) chalcogenide glass thin films. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 5351-5357.	1.3	24
34	Structural domains and electronic contributions in amorphous chalcogenides. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 987-992.	1.9	13
35	Optical properties and structure of amorphous (As _{0.33} S _{0.67}) _{100-x} Te _x and Ge _x Sb _{40-x} S ₆₀ chalcogenide semiconducting alloy films deposited by vacuum thermal evaporation. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 1793-1799.	1.3	25
36	Low-frequency optical dielectric response and rigidity transitions in network glasses. <i>Physical Review B</i> , 2006, 74, .	1.1	10

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37	Influence of the deposition technique on the structural and optical properties of amorphous AsS films. <i>Applied Surface Science</i> , 2005, 246, 348-355.	3.1	22
38	Optical and structural characterisation of single and multilayer germanium/silicon monoxide systems. <i>Thin Solid Films</i> , 2005, 485, 274-283.	0.8	23
39	Automated system for the study of volume holographic recording. <i>Review of Scientific Instruments</i> , 2004, 75, 2899-2902.	0.6	0
40	Determination of the surface roughness and refractive index of amorphous As ₄₀ S ₆₀ films deposited by spin coating. <i>Optical Materials</i> , 2004, 27, 147-154.	1.7	29
41	Structural and optical characterization of amorphous As ₄₀ S ₆₀ and As ₄₀ Se ₆₀ films prepared by plasma-enhanced chemical vapor deposition. <i>Journal of Non-Crystalline Solids</i> , 2004, 345-346, 88-92.	1.5	22
42	Análisis de las dependencias composicionales de las propiedades ópticas de láminas semiconductoras amorfas del sistema As-S-Se. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2004, 43, 357-362.	0.9	1
43	Optical properties of thermally evaporated amorphous As ₄₀ S ₆₀ ^x Se _x films. <i>Journal of Non-Crystalline Solids</i> , 2003, 315, 134-143.	1.5	69
44	Thermal relaxation of the structural and optical properties of amorphous As ₄₀ S ₆₀ ^x Se _x films. <i>Journal of Non-Crystalline Solids</i> , 2003, 326-327, 146-153.	1.5	17
45	HOLOMETER: measurement apparatus for the evaluation of chalcogenide glasses as holographic recording media. <i>Journal of Non-Crystalline Solids</i> , 2003, 326-327, 416-424.	1.5	14
46	Influence of substrate absorption on the optical and geometrical characterization of thin dielectric films. <i>Applied Optics</i> , 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. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 2489-2496.	1.3	42
48	Controlling the optical constants of thermally-evaporated Ge ₁₀ Sb ₃₀ S ₆₀ chalcogenide glass films by photodoping with silver. <i>Journal of Non-Crystalline Solids</i> , 2000, 274, 62-68.	1.5	59
49	The kinetics of the photo-induced solid-state chemical reaction in Ag/As ₃₃ S ₆₇ bilayers and its reaction products. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 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 ₂ Films. <i>Physica Scripta</i> , 1999, 60, 90-96.	1.2	8
51	Calculation and analysis of the complex refractive index of uniform films of the As ₄₀ S ₆₀ Se glassy alloy deposited by thermal evaporation. <i>Surface and Coatings Technology</i> , 1999, 122, 60-66.	2.2	4
52	Reversible and athermal photo-vitrification of As ₅₀ Se ₅₀ thin films deposited onto silicon wafer and glass substrates. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 68, 653-661.	1.1	15
53	Optical-constant calculation of non-uniform thickness thin films of the Ge ₁₀ As ₁₅ Se ₇₅ chalcogenide glassy alloy in the sub-band-gap region (0.1 eV–1.8 eV). <i>Materials Chemistry and Physics</i> , 1999, 60, 231-239.	2.0	83
54	Optical properties of thin-film ternary Ge ₁₀ As ₁₅ Se ₇₅ chalcogenide glasses. <i>Materials Letters</i> , 1999, 39, 232-239.	1.3	35

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55	On the photo- and thermally-induced darkening phenomena in As ₄₀ S ₄₀ Se ₂₀ amorphous chalcogenide thin films. Journal Physics D: Applied Physics, 1999, 32, 3128-3134.	1.3	21
56	The kinetics of the photo-induced solid-state chemical reaction in Ag/As ₃₃ S ₆₇ 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 ₄₀ S ₄₀ Se ₂₀ chalcogenide glass by reflectance measurements. Applied Physics A: Materials Science and Processing, 1998, 67, 371-378.	1.1	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.	0.8	35
59	Optical properties of non-uniform thickness thin films of the glass-alloy system Cu-As-Se. Physica Scripta, 1997, 55, 108-113.	1.2	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.	1.3	34
61	Optical reflectivity monitoring of the Ag-photodissolution kinetics in As ₃₀ S ₇₀ chalcogenide glass films. Materials Letters, 1995, 25, 143-146.	1.3	4