Juan-Maria Gonzalez-Leal

List of Publications by Year
in descending order

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	Optical-constant calculation of non-uniform thickness thin films of the Ge10As15Se75 chalcogenide glassy alloy in the sub-band-gap region (0.1â€“1.8eV). Materials Chemistry and Physics, 1999, 60, 231-239.	4.0	83
2	Optical properties of thermally evaporated amorphous As40S60â^'xSex films. Journal of Non-Crystalline Solids, 2003, 315, 134-143.	3.1	69
3	Influence of substrate absorption on the optical and geometrical characterization of thin dielectric films. Applied Optics, 2002, 41, 7300.	2.1	62
4	Controlling the optical constants of thermally-evaporated Ge10Sb30S60 chalcogenide glass films by photodoping with silver. Journal of Non-Crystalline Solids, 2000, 274, 62-68.	3.1	59
5	Photocatalytic TiO2 solâ€“gel thin films: Optical and morphological characterization. Solar Energy, 2015, 122, 11-23.	6.1	57
6	Optical properties of amorphous (As0.33S0.67)100â^'xTex (x=0, 1, 5 and 10) chalcogenide thin films, photodoped step-by-step with silver. Journal of Non-Crystalline Solids, 2008, 354, 503-508.	3.1	56
7	Highly stable ceria-zirconia-yttria supported Ni catalysts for syngas production by CO 2 reforming of methane. Applied Surface Science, 2017, 426, 864-873.	6.1	46
8	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
9	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
10	Optical properties of thin-film ternary Ge10As15Se75 chalcogenide glasses. Materials Letters, 1999, 39, 232-239.	2.6	35
11	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
12	Determination of the surface roughness and refractive index of amorphous As40S60 films deposited by spin coating. Optical Materials, 2004, 27, 147-154.	3.6	29
13	The kinetics of the photo-induced solid-state chemical reaction in Ag/As₃₃S₆₇bilayers 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
14	Characterization of plastic beach litter by Raman spectroscopy in South-western Spain. Science of the Total Environment, 2020, 744, 140890.	8.0	28
15	Green and fast synthesis of amino-functionalized graphene quantum dots with deep blue photoluminescence. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	27
16	Optical properties and structure of amorphous (As0.33S0.67)100â^'xTexand GexSb40â^'xS60chalcogenide semiconducting alloy films deposited by vacuum thermal evaporation. Journal Physics D: Applied Physics, 2006, 39, 1793-1799.	2.8	25
17	A new analytical technique for the extraction and quantification of microplastics in marine sediments focused on easy implementation and repeatability. Analytical Methods, 2017, 9, 6371-6378.	2.7	25
18	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.	2.3	24

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19	Preparation and optical dispersion and absorption of Ag-photodoped Ge_xSb_{40â^'x}S₆₀(x= 10, 20 and 30) chalcogenide glass thin films. Journal Physics D: Applied Physics, 2007, 40, 5351-5357.	2.8	24
20	Optical and structural characterisation of single and multilayer germanium/silicon monoxide systems. Thin Solid Films, 2005, 485, 274-283.	1.8	23
21	Low temperature prepared copper-iron mixed oxides for the selective CO oxidation in the presence of hydrogen. Applied Catalysis A: General, 2018, 552, 58-69.	4.3	23
22	Structural and optical characterization of amorphous As40S60 and As40Se60 films prepared by plasma-enhanced chemical vapor deposition. Journal of Non-Crystalline Solids, 2004, 345-346, 88-92.	3.1	22
23	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
24	On the photo- and thermally-induced darkening phenomena in As40S40Se20amorphous chalcogenide thin films. Journal Physics D: Applied Physics, 1999, 32, 3128-3134.	2.8	21
25	The Wempleâ€“DiDomenico model as a tool to probe the building blocks conforming a glass. Physica Status Solidi (B): Basic Research, 2013, 250, 1044-1051.	1.5	21
26	Selective oxidation of glycerol on morphology controlled ceria nanomaterials. Catalysis Science and Technology, 2019, 9, 2328-2334.	4.1	21
27	Insights into the annealing process of sol-gel TiO2 films leading to anatase development: The interrelationship between microstructure and optical properties. Applied Surface Science, 2018, 439, 736-748.	6.1	19
28	Thermal relaxation of the structural and optical properties of amorphous As 40 S 60â^'x Se x films. Journal of Non-Crystalline Solids, 2003, 326-327, 146-153.	3.1	17
29	TEM study of defects versus growth orientations in heavily boronâ€doped diamond. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2468-2473.	1.8	16
30	Reversible and athermal photo-vitrification of As 50 Se 50 thin films deposited onto silicon wafer and glass substrates. Applied Physics A: Materials Science and Processing, 1999, 68, 653-661.	2.3	15
31	Light-induced changes in the structure and optical dispersion and absorption of amorphous As40S20Se40 thin films. Materials Chemistry and Physics, 2009, 115, 751-756.	4.0	15
32	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
33	Structural domains and electronic contributions in amorphous chalcogenides. Journal of Physics and Chemistry of Solids, 2007, 68, 987-992.	4.0	13
34	Enhanced Artificial Enzyme Activities on the Reconstructed Sawtoothlike Nanofacets of Pure and Pr-Doped Ceria Nanocubes. ACS Applied Materials & Interfaces, 2021, 13, 38061-38073.	8.0	13
35	Influence of methane concentration on MPCVD overgrowth of 100â€oriented etched diamond substrates. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2570-2574.	1.8	12
36	Single oscillator energy and dispersion energy of uniform thin chalcogenide films from Cuâ€“Asâ€“Sâ€“Se system. Journal of Non-Crystalline Solids, 2007, 353, 1466-1469.	3.1	11

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37	Low-frequency optical dielectric response and rigidity transitions in network glasses. Physical Review B, 2006, 74, .	3.2	10
38	Improving Magnetooptical Faraday Effect of maghemite/silica nanocomposites. Materials Chemistry and Physics, 2015, 154, 1-9.	4.0	9
39	Optical Constants in the Subgap Region and Vibrational Behaviour by Far-Infrared Spectroscopy of Wedge-Shaped Obliquely-Deposited Amorphous GeS2Films. Physica Scripta, 1999, 60, 90-96.	2.5	8
40	Optical functionalities of dielectric material deposits obtained from a Lambertian evaporation source. Optics Express, 2007, 15, 5451.	3.4	8
41	Carbon integral honeycomb monoliths as support of copper catalysts in the Kharaschâ€“Sosnovsky oxidation of cyclohexene. Chemical Engineering Journal, 2016, 290, 174-184.	12.7	7
42	Fabrication of axicons by cw laser effusion. Optics Letters, 2007, 32, 2384.	3.3	6
43	Analysis of the Visual Appearance of AISI 430 Ferritic Stainless Steel Flat Sheets Manufactured by Cool Rolling and Bright Annealing. Metals, 2021, 11, 1058.	2.3	6
44	Analysis and comparison of monofocal, extended depth of focus and trifocal intraocular lens profiles. Scientific Reports, 2022, 12, .	3.3	6
45	Surface and conformational characteristics of As₄₀S₆₀glass films prepared by continuous-wave laser deposition. Materials Research Express, 2014, 1, 015201.	1.6	5
46	Determination of Thermodynamic Characteristics of Phase-stabilized Ammonium Nitrate-Based High-energy Solid Combustible Materials. Combustion Science and Technology, 2022, 194, 768-784.	2.3	5
47	Characterisation of High Temperature Oxidation Phenomena during AISI 430 Stainless Steel Manufacturing under a Controlled H2 Atmosphere for Bright Annealing. Metals, 2021, 11, 191.	2.3	5
48	Optical reflectivity monitoring of the Ag-photodissolution kinetics in As30S70 chalcogenide glass films. Materials Letters, 1995, 25, 143-146.	2.6	4
49	Calculation and analysis of the complex refractive index of uniform films of the Asâ€“Sâ€“Se glassy alloy deposited by thermal evaporation. Surface and Coatings Technology, 1999, 122, 60-66.	4.8	4
50	Light structured deposition (1): Material properties. Journal of Non-Crystalline Solids, 2009, 355, 1989-1992.	3.1	4
51	Study of the fabrication of infrared-transparent dielectric aspheric deposits by continuous-wave laser deposition. Thin Solid Films, 2010, 518, 5530-5534.	1.8	3
52	Study of the growth of infrared-transparent non-spheric layer lenses by continuous-wave laser deposition. Thin Solid Films, 2012, 520, 5512-5515.	1.8	3
53	The kinetics of the photo-induced solid-state chemical reaction in Ag/As33S67 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
54	Optical properties of non-uniform thickness thin films of the glass-alloy system Cuâ€“Asâ€“Se. Physica Scripta, 1997, 55, 108-113.	2.5	2

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55	Design considerations for tailoring the thickness profile of transparent dielectric deposits by continuous-wave laser deposition. Journal of Applied Physics, 2013, 113, 013108.	2.5	2
56	Light structured deposition (2): Material optical functionality. Journal of Non-Crystalline Solids, 2009, 355, 1966-1968.	3.1	1
57	Influence of substrate absorption on accuracy of determination of refractive index and thickness of uniform thin chalcogenide Cu1[As2(S0.5Se0.5)3]99 film. Thin Solid Films, 2010, 518, 5679-5682.	1.8	1
58	AnÃ¡lisis de las dependencias composicionales de las propiedades opticas de lÃ¡minas semiconductoras amorfas del sistema As-S-Se. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2004, 43, 357-362.	1.9	1
59	Radiometric analysis of haze in bright-annealed AISI 430 ferritic stainless steel. Applied Optics, 2022, 61, 2155.	1.8	1
60	Automated system for the study of volume holographic recording. Review of Scientific Instruments, 2004, 75, 2899-2902.	1.3	0
61	Fabrication of Aspheric Deposits by CW Laser Deposition. , 2010, , .		0