Carlos Vazquez-Vazquez

List of Publications by Year
in descending order

93 papers	2,669 citations	257101 24 h-index	197535 49 g-index
96 all docs	96 docs citations	96 times ranked	3321 citing authors

#	Article	IF	Citations
1	Investigation of some physical and photoconductive properties of sprayed CuS2 film. Journal of Materials Science: Materials in Electronics, 2022, 33, 3810-3821.	1.1	3
2	Sphingomyelin nanosystems decorated with TSP-1 derived peptide targeting senescent cells. International Journal of Pharmaceutics, 2022, 617, 121618.	2.6	13
3	Electrical investigation of sprayed In2S3 film. Materials Science in Semiconductor Processing, 2021, 121, 105294.	1.9	12
4	Reusable Fe3O4/SBA15 Nanocomposite as an Efficient Photo-Fenton Catalyst for the Removal of Sulfamethoxazole and Orange II. Nanomaterials, 2021, 11, 533.	1.9	10
5	A nanoemulsion/micelles mixed nanosystem for the oral administration of hydrophobically modified insulin. Drug Delivery and Translational Research, 2021, 11, 524-545.	3.0	15
6	Electrical Behavior and Photocatalytic Activity of Ag-Doped In2S3 Thin Films. Journal of Electronic Materials, 2021, 50, 3739-3747.	1.0	4
7	Insights into the phase evolution-composition-structural aspect of silicon carbide powders preparing from nature silica sands of south Libya. Materials Chemistry and Physics, 2021, 273, 124945.	2.0	0
8	S/In molar ratio effect on the photoconductivity of the sprayed Î²-In2S3 thin films. Journal of Materials Science: Materials in Electronics, 2021, 32, 27995-28006.	1.1	2
9	Exploiting the Potential of Supported Magnetic Nanomaterials as Fenton-Like Catalysts for Environmental Applications. Nanomaterials, 2021, 11, 2902.	1.9	10
10	Enhanced Photocatalytic Activity of Semiconductor Nanocomposites Doped with Ag Nanoclusters Under UV and Visible Light. Catalysts, 2020, 10, 31.	1.6	11
11	Iron oxide-mediated photo-Fenton catalysis in the inactivation of enteric bacteria present in wastewater effluents at neutral pH. Environmental Pollution, 2020, 266, 115181.	3.7	15
12	Thickness effect on VOC sensing properties of sprayed In₂S₃ films. RSC Advances, 2020, 10, 18841-18852.	1.7	18
13	Investigation of the effect of S/In molar ratio on physical properties of sprayed In₂S₃ thin films. RSC Advances, 2020, 10, 21180-21190.	1.7	7
14	Dielectric and electrical properties of annealed ZnS thin films. The appearance of the OLPT conduction mechanism in chalcogenides. RSC Advances, 2020, 10, 9549-9562.	1.7	30
15	Fenton and Photo-Fenton Nanocatalysts Revisited from the Perspective of Life Cycle Assessment. Catalysts, 2020, 10, 23.	1.6	20
16	Highly sensitive nitrogen dioxide gas sensors based on sprayed Î²-In2S3 film. Sensors and Actuators B: Chemical, 2020, 319, 128280.	4.0	30
17	Physical properties and ethanol response of sprayed In2S3:Sn films. Materials Research Express, 2019, 6, 106431.	0.8	6
18	Substrate temperature effect on microstructure, oxygen adsorption and ethanol sensing response of sprayed In2S3 films. Journal of Materials Science: Materials in Electronics, 2019, 30, 20069-20078.	1.1	2

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19	Three-Dimensional Hybrid Mesoporous Scaffolds for Simvastatin Sustained Delivery with in Vitro Cell Compatibility. ACS Omega, 2019, 4, 5496-5508.	1.6	12
20	Insight into antibiotics removal: Exploring the photocatalytic performance of a Fe3O4/ZnO nanocomposite in a novel magnetic sequential batch reactor. Journal of Environmental Management, 2019, 237, 595-608.	3.8	49
21	Impact of the annealing time on physical properties of sprayed In2S3 thin films. Journal of Materials Science: Materials in Electronics, 2019, 30, 6178-6186.	1.1	3
22	Development of a Novel Magnetic Reactor Based on Nanostructured Fe3O4@PAA as Heterogenous Fenton Catalyst. Catalysts, 2019, 9, 18.	1.6	8
23	PROPERTIES OF LOW-LEVEL Sn-DOPED In2S3 FILMS DEPOSITED BY SPRAY PYROLYSIS TECHNIQUE. Surface Review and Letters, 2019, 26, 1850126.	0.5	4
24	Novel Supramolecular Nanoparticles Derived from Cucurbit[7]uril and Zwitterionic Surfactants. Langmuir, 2018, 34, 3485-3493.	1.6	5
25	Development of a Superparamagnetic Laccase Nanobiocatalyst for the Enzymatic Biotransformation of Xenobiotics. Journal of Environmental Engineering, ASCE, 2018, 144, 04018007.	0.7	8
26	The effects of doping type on structural and electrical properties of silicon nanocrystals layers grown by plasma enhanced chemical vapor deposition. Journal of Materials Science: Materials in Electronics, 2018, 29, 11000-11012.	1.1	3
27	A new procedure to synthesis of ZnS1â^'xSex nanoparticles by a facile solvothermal method. Journal of Materials Science: Materials in Electronics, 2018, 29, 10656-10662.	1.1	7
28	Properties of nickel doped In2S3 thin films deposited by spray pyrolysis technique. Journal of Materials Science: Materials in Electronics, 2018, 29, 1888-1906.	1.1	10
29	A novel enzyme catalysis reactor based on superparamagnetic nanoparticles for biotechnological applications. Journal of Environmental Chemical Engineering, 2018, 6, 5950-5960.	3.3	6
30	The Environmental Impact of Magnetic Nanoparticles Under the Perspective of Carbon Footprint. , 2018, , 45-77.		1
31	Comparative life cycle assessment of different synthesis routes of magnetic nanoparticles. Journal of Cleaner Production, 2017, 143, 528-538.	4.6	47
32	Single-step rubbing method for mass production of large-size and defect-free 2D materials. Translational Materials Research, 2017, 4, 025001.	1.2	5
33	Study of the antibacterial and catalytic activity of silver colloids synthesized using the fruit of Sapindus mukorossi. New Journal of Chemistry, 2017, 41, 10703-10711.	1.4	22
34	Novel synthetic routes of large-pore magnetic mesoporous nanocomposites (SBA-15/Fe₃O₄) as potential multifunctional theranostic nanodevices. Journal of Materials Chemistry B, 2017, 5, 9395-9404.	2.9	29
35	Controlled solvothermal synthesis and properties of Cu2SnS3 nanoparticles. Journal of Materials Science: Materials in Electronics, 2017, 28, 3090-3097.	1.1	3
36	Facile production of vitamin B3 and other heterocyclic carboxylic acids using an efficient Ag/ZnO/graphene-Si hybrid nanocatalyst. Research on Chemical Intermediates, 2017, 43, 203-218.	1.3	19

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37	Magnetic nanocomposites based on mesoporous silica for biomedical applications. International Journal of Nanotechnology, 2016, 13, 648.	0.1	8
38	Some physical investigations on In2S3:Sn sprayed thin film. Journal of Materials Science: Materials in Electronics, 2016, 27, 11556-11564.	1.1	5
39	Experiments on In2S3:Sn Thin Films with up to 1% Tin Content. Journal of Electronic Materials, 2016, 45, 5936-5947.	1.0	11
40	Gold nanorod synthesis catalysed by Au clusters. Faraday Discussions, 2016, 191, 205-213.	1.6	14
41	Multicore Magnetic Fe₃O₄@C Beads With Enhanced Magnetic Response for MRI in Brain Biomedical Applications. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	13
42	Transformation of Gold Nanorods in Liquid Media Induced by nIR, Visible, and UV Laser Irradiation. Journal of Physical Chemistry C, 2015, 119, 13343-13349.	1.5	15
43	Synthesis of water-soluble gold clusters in nanosomes displaying robust photoluminescence with very large Stokes shift. Journal of Colloid and Interface Science, 2015, 455, 154-162.	5.0	18
44	Substrate temperature effect on properties of sprayed In2S3 films. Journal of Materials Science: Materials in Electronics, 2015, 26, 7639-7648.	1.1	17
45	Study of Optical and Electrical Properties of In2S3:Sn Films Deposited by Spray Pyrolysis. Journal of Electronic Materials, 2015, 44, 2536-2543.	1.0	28
46	Influence of annealing temperature on the properties of In2S3:Sn films deposited by spray pyrolysis. Journal of Materials Science: Materials in Electronics, 2015, 26, 5774-5782.	1.1	13
47	Self-Assembly of Silver Metal Clusters of Small Atomicity on Cyclic Peptide Nanotubes. ACS Nano, 2015, 9, 10834-10843.	7.3	46
48	Metallic Clusters: Theoretical Background, Properties and Synthesis in Microemulsions. Catalysts, 2014, 4, 356-374.	1.6	59
49	Facile synthesis of SiO2 nanoparticles for biomedical applications. , 2014, , .		0
50	Characterization and cytotoxicity studies on liposomeâ€“hydrophobic magnetite hybrid colloids. Journal of Colloid and Interface Science, 2014, 425, 118-127.	5.0	13
51	Coupling of Carbon and Peptide Nanotubes. Journal of the American Chemical Society, 2014, 136, 2484-2491.	6.6	73
52	Mnâ€“ferrite nanoparticles via reverse microemulsions: synthesis and characterization. Journal of Nanoparticle Research, 2011, 13, 3063-3073.	0.8	20
53	Finite size and surface effects on the magnetic properties of cobalt ferrite nanoparticles. Journal of Nanoparticle Research, 2011, 13, 1663-1676.	0.8	192
54	Soft-templating approach for the synthesis of high surface area and superparamagnetic mesoporous iron oxide materials. Microporous and Mesoporous Materials, 2010, 131, 373-377.	2.2	43

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55	Novel catanionic vesicles from calixarene and single-chain surfactant. Chemical Communications, 2010, 46, 6551.	2.2	71
56	Synthesis and characterization of gold atomic clusters by the two-phase method. European Physical Journal D, 2009, 52, 23-26.	0.6	10
57	Synthesis of Small Atomic Copper Clusters in Microemulsions. Langmuir, 2009, 25, 8208-8216.	1.6	168
58	Magnetocaloric effect and sizeâ€dependent study of the magnetic properties of cobalt ferrite nanoparticles prepared by solvothermal synthesis. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1358-1362.	0.8	28
59	Role of the magnetic anisotropy in the magnetocaloric effect for a superparamagnetic nanoparticle system: a Monte Carlo study. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1343-1348.	0.8	10
60	Magnetic fieldâ€dependence study of the magnetocaloric properties of a superparamagnetic nanoparticle system: a Monte Carlo simulation. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1349-1353.	0.8	11
61	Cylindrical Micelles from the Selfâ€Assembly of Polyacrylonitrileâ€Based Diblock Copolymers in Nonpolar Selective Solvents. Macromolecular Rapid Communications, 2008, 29, 352-357.	2.0	83
62	Synthesis of Atomic Gold Clusters with Strong Electrocatalytic Activities. Langmuir, 2008, 24, 12690-12694.	1.6	64
63	Synthesis and characterization of CoFe2O4â€“PVP nanocomposites. Journal of Non-Crystalline Solids, 2008, 354, 5236-5237.	1.5	13
64	Interplay between the magnetic field and the dipolar interaction on a magnetic nanoparticle system: A Monte Carlo study. Journal of Non-Crystalline Solids, 2008, 354, 5224-5226.	1.5	12
65	Influence of the nanoparticle size on the blocking temperature of interacting systems: Monte Carlo simulations. Journal of Non-Crystalline Solids, 2008, 354, 5222-5223.	1.5	18
66	Magnetocaloric effects in magnetic nanoparticle systems: A Monte Carlo study. Journal of Non-Crystalline Solids, 2007, 353, 790-792.	1.5	18
67	Magnetic field dependence of the magnetocaloric effect in magnetic nanoparticle systems: A Monte Carlo simulation. Journal of Non-Crystalline Solids, 2007, 353, 793-795.	1.5	9
68	Tunable Polyacrylonitrile-Based Micellar Aggregates as a Potential Tool for the Fabrication of Carbon Nanofibers. Chemistry of Materials, 2007, 19, 5818-5820.	3.2	62
69	Solvothermal synthesis and characterisation of La1âˆ'xAxMnO3 nanoparticles. Journal of Solid State Chemistry, 2006, 179, 3229-3237.	1.4	31
70	Evidence of weak ferromagnetism in chromium(III) oxide particles. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1547-1548.	1.0	11
71	Studies of Domain Size of Hexagonal Liquid Crystals in C12EO8/Water/Alcohol Systems. Langmuir, 2001, 17, 7245-7250.	1.6	16
72	Specific heat, thermal expansion and elastic modulus measurements in La2/3Ca1/3MnO3. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 590-591.	1.0	2

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73	Magnetic held dependence of elastic modulus and resistance in La2/3Ca1/3MnO3. Journal of Alloys and Compounds, 2000, 310, 44-46.	2.8	0
74	Dynamic Light Scattering in Transient Reversible Gelsâ€. Langmuir, 2000, 16, 8585-8594.	1.6	25
75	Simultaneous Measurements of Resistance and Elastic Modulus in La_{2/3}Ca_{1/3}MnO₃. Materials Science Forum, 1999, 302-303, 139-143.	0.3	1
76	Effect of porosity on FMR linewidth of Ln0.67A0.33MnO3 (Ln î—» La, Pr; A î—» Ca, Sr). Journal of Magnetism and Magnetic Materials, 1999, 196-197, 470-472.	1.0	16
77	Change from first- to second-order magnetic phase transition inLa2/3(Ca,Sr)1/3MnO3perovskites. Physical Review B, 1999, 60, 2998-3001.	1.1	314
78	Influence of the grain-size and oxygen stoichiometry on magnetic and transport properties of polycrystalline La0.67Ca0.33MnO3Â±Î´ perovskites. Journal of Magnetism and Magnetic Materials, 1998, 189, 321-328.	1.0	81
79	Characterization of La0.67Ca0.33MnO3Â±Î´ particles prepared by the solâ€“gel route. Journal of Materials Chemistry, 1998, 8, 991-1000.	6.7	171
80	Characterization of Sol-Gel Nanoparticles of Magnetoresistive La_{0.67}Ca_{0.33}MnO_{3+Î´}. Materials Science Forum, 1998, 278-281, 606-611.	0.3	1
81	High-temperature spin dynamics in CMR manganites: ESR and magnetization. Physical Review B, 1998, 58, 3233-3239.	1.1	249
82	Preparation of LaFeO₃ particles by sol-gel technology. Journal of Materials Research, 1998, 13, 451-456.	1.2	47
83	Magnetization, Magnetically Modulated Microwave Absorption (MaMMA) and Magnetoresistance in Small Particles of La_{0.67}Ca_{0.33}MnO₃. Materials Science Forum, 1997, 235-238, 831-836.	0.3	10
84	Size and structural effects on the magnetic behaviour of Gd2CuO4 particles. Journal of Magnetism and Magnetic Materials, 1996, 164, 241-250.	1.0	5
85	Sol-Gel Synthesis of Fine Gd2CuO4 Particles: Influence of Synthesis Variables. Journal of the American Ceramic Society, 1996, 79, 407-411.	1.9	13
86	Preparation of Gd2CuO4 via sol-gel in microemulsions. , 1996, , 191-194.		2
87	Thermal treatment dependence of the dynamic magnetic behavior of Gd2CuO4. Journal of Applied Physics, 1996, 80, 1674-1677.	1.1	12
88	Weak ferromagnetic resonance of Gd2CuO4small particles. Journal of Applied Physics, 1996, 79, 8612-8614.	1.1	2
89	Suppression of weak ferromagnetism in small particles of Gd 2 CuO 4. Europhysics Letters, 1996, 34, 623-628.	0.7	8
90	Relationship between weak ferromagnetism and magnetic irreversibilities inGd2CuO4. Physical Review B, 1995, 52, 16020-16027.	1.1	23

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91	Magnetic susceptibility studies in Gd2CuO4below 300 K. Journal of Applied Physics, 1994, 76, 7034-7036.	1.1	10
92	Relaxation of dc magnetization in Gd2CuO4. Journal of Non-Crystalline Solids, 1994, 172-174, 491-494.	1.5	4
93	Impact of substrate temperature on structural, morphological and optical properties of In2S3 thin films deposited on ITO/glass substrate by spray pyrolysis technique. Indian Journal of Physics, 0, , 1.	0.9	0