

Carlos Vazquez-Vazquez

List of Publications by Year in descending order

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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	Change from first- to second-order magnetic phase transition in $\text{La}_{2/3}(\text{Ca},\text{Sr})_{1/3}\text{MnO}_3$ perovskites. <i>Physical Review B</i> , 1999, 60, 2998-3001.	1.1	314
2	High-temperature spin dynamics in CMR manganites: ESR and magnetization. <i>Physical Review B</i> , 1998, 58, 3233-3239.	1.1	249
3	Finite size and surface effects on the magnetic properties of cobalt ferrite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 1663-1676.	0.8	192
4	Characterization of $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ particles prepared by the sol-gel route. <i>Journal of Materials Chemistry</i> , 1998, 8, 991-1000.	6.7	171
5	Synthesis of Small Atomic Copper Clusters in Microemulsions. <i>Langmuir</i> , 2009, 25, 8208-8216.	1.6	168
6	Cylindrical Micelles from the Self-Assembly of Polyacrylonitrile-Based Diblock Copolymers in Nonpolar Selective Solvents. <i>Macromolecular Rapid Communications</i> , 2008, 29, 352-357.	2.0	83
7	Influence of the grain-size and oxygen stoichiometry on magnetic and transport properties of polycrystalline $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ perovskites. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 189, 321-328.	1.0	81
8	Coupling of Carbon and Peptide Nanotubes. <i>Journal of the American Chemical Society</i> , 2014, 136, 2484-2491.	6.6	73
9	Novel catanionic vesicles from calixarene and single-chain surfactant. <i>Chemical Communications</i> , 2010, 46, 6551.	2.2	71
10	Synthesis of Atomic Gold Clusters with Strong Electrocatalytic Activities. <i>Langmuir</i> , 2008, 24, 12690-12694.	1.6	64
11	Tunable Polyacrylonitrile-Based Micellar Aggregates as a Potential Tool for the Fabrication of Carbon Nanofibers. <i>Chemistry of Materials</i> , 2007, 19, 5818-5820.	3.2	62
12	Metallic Clusters: Theoretical Background, Properties and Synthesis in Microemulsions. <i>Catalysts</i> , 2014, 4, 356-374.	1.6	59
13	Insight into antibiotics removal: Exploring the photocatalytic performance of a $\text{Fe}_3\text{O}_4/\text{ZnO}$ nanocomposite in a novel magnetic sequential batch reactor. <i>Journal of Environmental Management</i> , 2019, 237, 595-608.	3.8	49
14	Preparation of LaFeO_3 particles by sol-gel technology. <i>Journal of Materials Research</i> , 1998, 13, 451-456.	1.2	47
15	Comparative life cycle assessment of different synthesis routes of magnetic nanoparticles. <i>Journal of Cleaner Production</i> , 2017, 143, 528-538.	4.6	47
16	Self-Assembly of Silver Metal Clusters of Small Atomicity on Cyclic Peptide Nanotubes. <i>ACS Nano</i> , 2015, 9, 10834-10843.	7.3	46
17	Soft-templating approach for the synthesis of high surface area and superparamagnetic mesoporous iron oxide materials. <i>Microporous and Mesoporous Materials</i> , 2010, 131, 373-377.	2.2	43
18	Solvothermal synthesis and characterisation of $\text{La}_{1-x}\text{AxMnO}_3$ nanoparticles. <i>Journal of Solid State Chemistry</i> , 2006, 179, 3229-3237.	1.4	31

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19	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
20	Highly sensitive nitrogen dioxide gas sensors based on sprayed In_2S_3 film. Sensors and Actuators B: Chemical, 2020, 319, 128280.	4.0	30
21	Novel synthetic routes of large-pore magnetic mesoporous nanocomposites (SBA-15/ Fe_3O_4) as potential multifunctional theranostic nanodevices. Journal of Materials Chemistry B, 2017, 5, 9395-9404.	2.9	29
22	Magnetocaloric effect and size-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
23	Study of Optical and Electrical Properties of $\text{In}_2\text{S}_3:\text{Sn}$ Films Deposited by Spray Pyrolysis. Journal of Electronic Materials, 2015, 44, 2536-2543.	1.0	28
24	Dynamic Light Scattering in Transient Reversible Gels. Langmuir, 2000, 16, 8585-8594.	1.6	25
25	Relationship between weak ferromagnetism and magnetic irreversibilities in Gd_2CuO_4 . Physical Review B, 1995, 52, 16020-16027.	1.1	23
26	Study of the antibacterial and catalytic activity of silver colloids synthesized using the fruit of <i>Sapindus mukorossi</i> . New Journal of Chemistry, 2017, 41, 10703-10711.	1.4	22
27	Mn^{II} ferrite nanoparticles via reverse microemulsions: synthesis and characterization. Journal of Nanoparticle Research, 2011, 13, 3063-3073.	0.8	20
28	Fenton and Photo-Fenton Nanocatalysts Revisited from the Perspective of Life Cycle Assessment. Catalysts, 2020, 10, 23.	1.6	20
29	Facile production of vitamin B3 and other heterocyclic carboxylic acids using an efficient $\text{Ag}/\text{ZnO}/\text{graphene-Si}$ hybrid nanocatalyst. Research on Chemical Intermediates, 2017, 43, 203-218.	1.3	19
30	Magnetocaloric effects in magnetic nanoparticle systems: A Monte Carlo study. Journal of Non-Crystalline Solids, 2007, 353, 790-792.	1.5	18
31	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
32	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
33	Thickness effect on VOC sensing properties of sprayed In_2S_3 films. RSC Advances, 2020, 10, 18841-18852.	1.7	18
34	Substrate temperature effect on properties of sprayed In_2S_3 films. Journal of Materials Science: Materials in Electronics, 2015, 26, 7639-7648.	1.1	17
35	Effect of porosity on FMR linewidth of $\text{Ln}_{0.67}\text{A}_{0.33}\text{MnO}_3$ ($\text{Ln} \rightarrow \text{La, Pr}$; $\text{A} \rightarrow \text{Ca, Sr}$). Journal of Magnetism and Magnetic Materials, 1999, 196-197, 470-472.	1.0	16
36	Studies of Domain Size of Hexagonal Liquid Crystals in $\text{C}_{12}\text{EO}_8/\text{Water}/\text{Alcohol}$ Systems. Langmuir, 2001, 17, 7245-7250.	1.6	16

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37	Transformation of Gold Nanorods in Liquid Media Induced by nIR, Visible, and UV Laser Irradiation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13343-13349.	1.5	15
38	Iron oxide-mediated photo-Fenton catalysis in the inactivation of enteric bacteria present in wastewater effluents at neutral pH. <i>Environmental Pollution</i> , 2020, 266, 115181.	3.7	15
39	A nanoemulsion/micelles mixed nanosystem for the oral administration of hydrophobically modified insulin. <i>Drug Delivery and Translational Research</i> , 2021, 11, 524-545.	3.0	15
40	Gold nanorod synthesis catalysed by Au clusters. <i>Faraday Discussions</i> , 2016, 191, 205-213.	1.6	14
41	Sol-Gel Synthesis of Fine Gd ₂ CuO ₄ Particles: Influence of Synthesis Variables. <i>Journal of the American Ceramic Society</i> , 1996, 79, 407-411.	1.9	13
42	Synthesis and characterization of CoFe ₂ O ₄ @PVP nanocomposites. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5236-5237.	1.5	13
43	Characterization and cytotoxicity studies on liposome@hydrophobic magnetite hybrid colloids. <i>Journal of Colloid and Interface Science</i> , 2014, 425, 118-127.	5.0	13
44	Influence of annealing temperature on the properties of In ₂ S ₃ :Sn films deposited by spray pyrolysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 5774-5782.	1.1	13
45	Multicore Magnetic Fe ₃ O ₄ @C Beads With Enhanced Magnetic Response for MRI in Brain Biomedical Applications. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-4.	1.2	13
46	Sphingomyelin nanosystems decorated with TSP-1 derived peptide targeting senescent cells. <i>International Journal of Pharmaceutics</i> , 2022, 617, 121618.	2.6	13
47	Thermal treatment dependence of the dynamic magnetic behavior of Gd ₂ CuO ₄ . <i>Journal of Applied Physics</i> , 1996, 80, 1674-1677.	1.1	12
48	Interplay between the magnetic field and the dipolar interaction on a magnetic nanoparticle system: A Monte Carlo study. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5224-5226.	1.5	12
49	Three-Dimensional Hybrid Mesoporous Scaffolds for Simvastatin Sustained Delivery with in Vitro Cell Compatibility. <i>ACS Omega</i> , 2019, 4, 5496-5508.	1.6	12
50	Electrical investigation of sprayed In ₂ S ₃ film. <i>Materials Science in Semiconductor Processing</i> , 2021, 121, 105294.	1.9	12
51	Evidence of weak ferromagnetism in chromium(III) oxide particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1547-1548.	1.0	11
52	Magnetic field dependence study of the magnetocaloric properties of a superparamagnetic nanoparticle system: a Monte Carlo simulation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 1349-1353.	0.8	11
53	Experiments on In ₂ S ₃ :Sn Thin Films with up to 1% Tin Content. <i>Journal of Electronic Materials</i> , 2016, 45, 5936-5947.	1.0	11
54	Enhanced Photocatalytic Activity of Semiconductor Nanocomposites Doped with Ag Nanoclusters Under UV and Visible Light. <i>Catalysts</i> , 2020, 10, 31.	1.6	11

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55	Magnetic susceptibility studies in Gd ₂ CuO ₄ below 300 K. Journal of Applied Physics, 1994, 76, 7034-7036.	1.1	10
56	Magnetization, Magnetically Modulated Microwave Absorption (MaMMA) and Magnetoresistance in Small Particles of La _{0.67} Ca _{0.33} MnO ₃ . Materials Science Forum, 1997, 235-238, 831-836.	0.3	10
57	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
58	Synthesis and characterization of gold atomic clusters by the two-phase method. European Physical Journal D, 2009, 52, 23-26.	0.6	10
59	Properties of nickel doped In ₂ S ₃ thin films deposited by spray pyrolysis technique. Journal of Materials Science: Materials in Electronics, 2018, 29, 1888-1906.	1.1	10
60	Reusable Fe ₃ O ₄ /SBA15 Nanocomposite as an Efficient Photo-Fenton Catalyst for the Removal of Sulfamethoxazole and Orange II. Nanomaterials, 2021, 11, 533.	1.9	10
61	Exploiting the Potential of Supported Magnetic Nanomaterials as Fenton-Like Catalysts for Environmental Applications. Nanomaterials, 2021, 11, 2902.	1.9	10
62	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
63	Suppression of weak ferromagnetism in small particles of Gd ₂ CuO ₄ . Europhysics Letters, 1996, 34, 623-628.	0.7	8
64	Magnetic nanocomposites based on mesoporous silica for biomedical applications. International Journal of Nanotechnology, 2016, 13, 648.	0.1	8
65	Development of a Superparamagnetic Laccase Nanobiocatalyst for the Enzymatic Biotransformation of Xenobiotics. Journal of Environmental Engineering, ASCE, 2018, 144, 04018007.	0.7	8
66	Development of a Novel Magnetic Reactor Based on Nanostructured Fe ₃ O ₄ @PAA as Heterogeneous Fenton Catalyst. Catalysts, 2019, 9, 18.	1.6	8
67	A new procedure to synthesis of ZnS _x nanoparticles by a facile solvothermal method. Journal of Materials Science: Materials in Electronics, 2018, 29, 10656-10662.	1.1	7
68	Investigation of the effect of S/In molar ratio on physical properties of sprayed In ₂ S ₃ thin films. RSC Advances, 2020, 10, 21180-21190.	1.7	7
69	A novel enzyme catalysis reactor based on superparamagnetic nanoparticles for biotechnological applications. Journal of Environmental Chemical Engineering, 2018, 6, 5950-5960.	3.3	6
70	Physical properties and ethanol response of sprayed In ₂ S ₃ :Sn films. Materials Research Express, 2019, 6, 106431.	0.8	6
71	Size and structural effects on the magnetic behaviour of Gd ₂ CuO ₄ particles. Journal of Magnetism and Magnetic Materials, 1996, 164, 241-250.	1.0	5
72	Some physical investigations on In ₂ S ₃ :Sn sprayed thin film. Journal of Materials Science: Materials in Electronics, 2016, 27, 11556-11564.	1.1	5

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73	Single-step rubbing method for mass production of large-size and defect-free 2D materials. Translational Materials Research, 2017, 4, 025001.	1.2	5
74	Novel Supramolecular Nanoparticles Derived from Cucurbit[7]uril and Zwitterionic Surfactants. Langmuir, 2018, 34, 3485-3493.	1.6	5
75	Relaxation of dc magnetization in Gd ₂ CuO ₄ . Journal of Non-Crystalline Solids, 1994, 172-174, 491-494.	1.5	4
76	PROPERTIES OF LOW-LEVEL Sn-DOPED In ₂ S ₃ FILMS DEPOSITED BY SPRAY PYROLYSIS TECHNIQUE. Surface Review and Letters, 2019, 26, 1850126.	0.5	4
77	Electrical Behavior and Photocatalytic Activity of Ag-Doped In ₂ S ₃ Thin Films. Journal of Electronic Materials, 2021, 50, 3739-3747.	1.0	4
78	Controlled solvothermal synthesis and properties of Cu ₂ SnS ₃ nanoparticles. Journal of Materials Science: Materials in Electronics, 2017, 28, 3090-3097.	1.1	3
79	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
80	Impact of the annealing time on physical properties of sprayed In ₂ S ₃ thin films. Journal of Materials Science: Materials in Electronics, 2019, 30, 6178-6186.	1.1	3
81	Investigation of some physical and photoconductive properties of sprayed CuS ₂ film. Journal of Materials Science: Materials in Electronics, 2022, 33, 3810-3821.	1.1	3
82	Preparation of Gd ₂ CuO ₄ via sol-gel in microemulsions. , 1996, , 191-194.		2
83	Weak ferromagnetic resonance of Gd ₂ CuO ₄ small particles. Journal of Applied Physics, 1996, 79, 8612-8614.	1.1	2
84	Specific heat, thermal expansion and elastic modulus measurements in La _{2/3} Ca _{1/3} MnO ₃ . Journal of Magnetism and Magnetic Materials, 2001, 226-230, 590-591.	1.0	2
85	Substrate temperature effect on microstructure, oxygen adsorption and ethanol sensing response of sprayed In ₂ S ₃ films. Journal of Materials Science: Materials in Electronics, 2019, 30, 20069-20078.	1.1	2
86	S/In molar ratio effect on the photoconductivity of the sprayed \hat{I}^2 -In ₂ S ₃ thin films. Journal of Materials Science: Materials in Electronics, 2021, 32, 27995-28006.	1.1	2
87	Characterization of Sol-Gel Nanoparticles of Magneto-resistive La _{0.67} Ca _{0.33} MnO ₃ . Materials Science Forum, 1998, 278-281, 606-611.	0.3	1
88	Simultaneous Measurements of Resistance and Elastic Modulus in La _{2/3} Ca _{1/3} MnO ₃ . Materials Science Forum, 1999, 302-303, 139-143.	0.3	1
89	The Environmental Impact of Magnetic Nanoparticles Under the Perspective of Carbon Footprint. , 2018, , 45-77.		1
90	Magnetic field dependence of elastic modulus and resistance in La _{2/3} Ca _{1/3} MnO ₃ . Journal of Alloys and Compounds, 2000, 310, 44-46.	2.8	0

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91	Facile synthesis of SiO ₂ nanoparticles for biomedical applications. , 2014, , .		0
92	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
93	Impact of substrate temperature on structural, morphological and optical properties of In ₂ S ₃ thin films deposited on ITO/glass substrate by spray pyrolysis technique. Indian Journal of Physics, 0, , 1.	0.9	0