

Edgar Eduardo Mosquera Vargas

List of Publications by Year in descending order

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64
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3,188
citations

331670

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149698

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64
docs citations

64
times ranked

3675
citing authors

#	ARTICLE	IF	CITATIONS
1	Pr _{1-x} Ca _x MnO ₃ nanoparticles: Synthesis and structural, optical and magnetic properties. Materials Research Bulletin, 2022, 151, 111805.	5.5	4
2	Temperature-dependent potential for the molecular dynamics of the superionic conductor $\hat{\Gamma}^2$ -PbF ₂ . Heliyon, 2022, 8, e09026.	3.2	0
3	Thermal, electrical and structural study of polymeric membranes based on poly(vinyl alcohol), chitosan and phosphoric acid. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	2
4	PrMnO ₃ porous nanostructures: Synthesis and structural, optical and magnetic properties. Materials Research Bulletin, 2022, 151, 111805.	5.2	4
5	Photocatalytic behavior of TiO ₂ and TiO ₂ /CS nanoparticles under UV irradiation. Revista UIS Ingenierías, 2022, 21, .	0.2	0
6	Electronic and optical studies on two-dimensional hydrogenated stirrup triels nitride nanosheets: A first-principle investigation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 264, 114978.	3.5	8
7	Luminescence of ZnO/MgO phosphors. Optik, 2021, 243, 167416.	2.9	5
8	Influence of aluminum doping on structural, morphological, vibrational, and optical properties of CdS thin films obtained by chemical bath deposition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 273, 115451.	3.5	5
9	Hydrogen storage in purified multi-walled carbon nanotubes: gas hydrogenation cycles effect on the adsorption kinetics and their performance. Heliyon, 2021, 7, e08494.	3.2	15
10	Data on A parametric temperature dependent potential for $\hat{\Gamma}^2$ -PbF ₂ : A numerical investigation by molecular dynamics. Data in Brief, 2020, 28, 104865.	1.0	1
11	Influence of copper doping on structural, morphological, optical, and vibrational properties of ZnO nanoparticles synthesized by sol gel method. Surfaces and Interfaces, 2020, 21, 100700.	3.0	15
12	Study of the structural and optical properties of nanoparticles of Pr _{1-x} Sr _x MnO ₃ (x=0.1, 0.2, 0.3, 0.4 and) Tj ETQq0 0 0 rgBT /Overloc Materials for Advanced Technology, 2020, 260, 114617.	3.5	4
13	The structural, optical and magnetic property of iron oxides submicron particles synthesized by the Pechini method from steel industry wastes. Journal of Magnetism and Magnetic Materials, 2020, 513, 167243.	2.3	6
14	Influence of Bi doping on the luminescence of ZnO phosphors. Optik, 2020, 218, 165102.	2.9	3
15	Ultrasonic-assisted sol-gel synthesis of TiO ₂ nanostructures: Influence of synthesis parameters on morphology, crystallinity, and photocatalytic performance. Journal of Sol-Gel Science and Technology, 2020, 94, 477-485.	2.4	31
16	Structural and optical properties of gadolinium doped ZnTe thin films. Materials Letters, 2020, 268, 127562.	2.6	7
17	Synthesis of Gd ₂ O ₃ /CdO composite by sol-gel method: Structural, morphological, optical, electrochemical and magnetic studies. Vacuum, 2020, 175, 109255.	3.5	25
18	Data on a temperature-dependent thermic and electrical properties of a novel blend polymeric system based on poly(vinyl alcohol), chitosan and phosphoric acid. Data in Brief, 2020, 29, 105203.	1.0	1

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19	Catalyst-free growth of ZnO nanowires: structural, optical, vibrational and field emission properties. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	7
20	High proportion ZnO/CuO nanocomposites: Synthesis, structural and optical properties, and their photocatalytic behavior. Surfaces and Interfaces, 2019, 17, 100367.	3.0	39
21	Data on study of hematite nanoparticles obtained from Iron(III) oxide by the Pechini method. Data in Brief, 2019, 25, 104183.	1.0	15
22	Surface modification and polymerization on iron oxide nanoparticles obtained from mineral magnetite. Surfaces and Interfaces, 2019, 17, 100349.	3.0	2
23	Structure and Photoluminescence from Naturally Dispersed ZnTe Nanoparticles. Materials Express, 2019, 9, 173-178.	0.5	2
24	The influence of the morphology of 1D TiO ₂ nanostructures on photogeneration of reactive oxygen species and enhanced photocatalytic activity. Journal of Molecular Liquids, 2019, 281, 59-69.	4.9	82
25	Improving the ionic conductivity in nanostructured membranes based on poly(vinyl alcohol) (PVA), chitosan (CS), phosphoric acid (H ₃ PO ₄), and niobium oxide (Nb ₂ O ₅). Ionics, 2019, 25, 1131-1136.	2.4	15
26	Vibrational study of the liquid structure of molten Bismuth Germanate (Bi ₁₂ GeO ₂₀). Vibrational Spectroscopy, 2019, 100, 191-194.	2.2	3
27	Structural, morphological, optical and magnetic properties of Ag _{3(2+x)} In _x Nb _{4-x} O _{11+1'} (0.25 ≤ x ≤ 1.0) nanoparticles synthesized by sol-gel method. Materials Research Bulletin, 2018, 105, 121-125.	5.2	6
28	Crystallinity and lowering band gap induced visible light photocatalytic activity of TiO ₂ /CS (Chitosan) nanocomposites. International Journal of Biological Macromolecules, 2018, 109, 1239-1245.	7.5	121
29	Line defect Ce ³⁺ induced Ag/CeO ₂ /ZnO nanostructure for visible-light photocatalytic activity. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 499-506.	3.9	73
30	K ₂ Mn ₂ (H ₂ O) ₂ C ₂ O ₄ (HPO ₃) ₂ : a new 2D manganese(II) oxalato-phosphate with double-layered honeycomb sheets stabilized by potassium ions. CrystEngComm, 2018, 20, 301-311.	2.6	11
31	Suppression of the green emission, texturing, solute-atom diffusion and increased electron-phonon coupling induced by Ni in sol-gel ZnNiO thin films. Applied Surface Science, 2018, 456, 771-780.	6.1	4
32	The shell effect on the room temperature photoluminescence from ZnO/MgO core/shell nanowires: exciton-phonon coupling and strain. Nanotechnology, 2017, 28, 275702.	2.6	15
33	Characterization of chemically-deposited aluminum-doped CdS thin films with post-deposition thermal annealing. Thin Solid Films, 2017, 623, 127-134.	1.8	36
34	Experimental and theoretical investigation of Bixbyite (Mn _{0.8} Ni _{0.2}) ₂ O ₃ nanoparticles for magnetic and electrochemical applications. Journal of Magnetism and Magnetic Materials, 2017, 443, 45-50.	2.3	8
35	Influence of micro- and nanoparticles of zirconium oxides on the dielectric properties of CaCu ₃ Ti ₄ O ₁₂ . Ceramics International, 2017, 43, 14659-14665.	4.8	21
36	Fabrication of ZnSe nanoparticles: Structural, optical and Raman Studies. Journal of Luminescence, 2017, 192, 814-817.	3.1	30

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37	Estudio exploratorio II: Identificación de nanopartículas en procesos industriales de soldadura y de minería. Ciencia & Trabajo: C & T, 2016, 18, 28-36.	0.3	2
38	Photoluminescence from c-axis oriented ZnO films synthesized by sol-gel with diethanolamine as chelating agent. Materials Science in Semiconductor Processing, 2016, 56, 59-65.	4.0	27
39	Influence of TiO ₂ nanostructures on anti-adhesion and photoinduced bactericidal properties of thin film composite membranes. RSC Advances, 2016, 6, 82941-82948.	3.6	20
40	Conducting PANI stimulated ZnO system for visible light photocatalytic degradation of coloured dyes. Journal of Molecular Liquids, 2016, 221, 1029-1033.	4.9	608
41	Sol-gel synthesis, structural, optical and magnetic characterization of Ag _{3(2+x)Pr_xNb_{4-x}O₁₁} (0.0 ≤ x ≤ 1). Journal of Materials Science: Materials Chemistry, 2016, 27, 7843-7851.	3.6	10
42	Zinc oxide nanoparticles with incorporated silver: Structural, morphological, optical and vibrational properties. Applied Surface Science, 2015, 347, 561-568.	6.1	46
43	Influence of oleic acid on the nucleation and growth of 4-N,N-dimethylamino-4-N-methyl-stilbazoliumtosylate (DAST) crystals. CrystEngComm, 2015, 17, 1989-1996.	2.6	29
44	Visible light induced degradation of methyl orange using Ag ₂ O-Ag ₂ VO ₄ nanorod catalysts by facile thermal decomposition method. Journal of Saudi Chemical Society, 2015, 19, 521-527.	5.2	106
45	ZnO/Ag/CdO nanocomposite for visible light-induced photocatalytic degradation of industrial textile effluents. Journal of Colloid and Interface Science, 2015, 452, 126-133.	9.4	579
46	ZnO/Ag/Mn ₂ O ₃ nanocomposite for visible light-induced industrial textile effluent degradation, uric acid and ascorbic acid sensing and antimicrobial activity. RSC Advances, 2015, 5, 34645-34651.	3.6	426
47	Mineral magnetite as precursor in the synthesis of multi-walled carbon nanotubes and their capabilities of hydrogen adsorption. International Journal of Hydrogen Energy, 2015, 40, 15540-15548.	7.1	8
48	Electrocatalysis of the hydrogen evolution reaction by rhenium oxides electrodeposited by pulsed-current. Electrochimica Acta, 2015, 178, 739-747.	5.2	32
49	Low temperature synthesis and blue photoluminescence of ZnS submicronparticles. Materials Letters, 2014, 129, 8-11.	2.6	17
50	Characterization and hydrogen storage in multi-walled carbon nanotubes grown by aerosol-assisted CVD method. Diamond and Related Materials, 2014, 43, 66-71.	3.9	30
51	Hydrothermal growth and characterization of zirconia nanostructures on non-stoichiometric zirconium oxide. Ceramics International, 2014, 40, 15577-15584.	4.8	15
52	Preparation and characterization of V ₂ O ₅ /ZnO nanocomposite system for photocatalytic application. Journal of Molecular Liquids, 2014, 198, 409-412.	4.9	363
53	Characterization of rhenium compounds obtained by electrochemical synthesis after aging process. Journal of Solid State Chemistry, 2014, 220, 17-21.	2.9	9
54	In situ production of tantalum carbide nanodispersoids in a copper matrix by reactive milling and hot extrusion. Journal of Alloys and Compounds, 2014, 598, 126-132.	5.5	18

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55	Growth and electron field-emission of single-crystalline ZnO nanowires. <i>Materials Letters</i> , 2013, 93, 326-329.	2.6	26
56	Structure and red shift of optical band gap in CdO/ZnO nanocomposite synthesized by the sol gel method. <i>Journal of Solid State Chemistry</i> , 2013, 206, 265-271.	2.9	92
57	Analysis of the electrodeposition process of rhenium and rhenium oxides in alkaline aqueous electrolyte. <i>Electrochimica Acta</i> , 2013, 109, 283-290.	5.2	20
58	Transmission electron microscopy study of electrodeposited rhenium and rhenium oxides. <i>Materials Letters</i> , 2013, 94, 44-46.	2.6	8
59	Synthesis and characterization of magnetite nanoparticles from mineral magnetite. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 343, 76-81.	2.3	39
60	Estudio Exploratorio de Higiene Industrial en Ambientes de Trabajo Donde Se Producen o Utilizan Nanopartículas. <i>Ciencia & Trabajo: C & T</i> , 2013, 15, 124-130.	0.3	0
61	Structural and Optical Studies of Zinc Oxide Nanowires Grown Directly on Zinc Foil Substrate by Thermal Evaporation Method. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2012, 2, 253-258.	0.3	11
62	Synthesis and Blue Photoluminescence from Naturally Dispersed Antimony Selenide (Sb ₂ Se ₃) 0-D Nanoparticles. <i>Advanced Science Letters</i> , 2011, 4, 85-88.	0.2	12
63	Vapor-Liquid-Solid Synthesis of [010]-Oriented Sb ₂ Se ₃ Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 5847-5850.	0.9	11
64	Vapor-Liquid-Solid Synthesis and Characterization of β -Monoclinic Selenium Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4846-4850.	0.9	1