

Edgar Eduardo Mosquera Vargas

List of Publications by Year in descending order

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64
papers

3,188
citations

331670

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149698

56
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all docs

64
docs citations

64
times ranked

3675
citing authors

#	ARTICLE	IF	CITATIONS
1	Conducting PANI stimulated ZnO system for visible light photocatalytic degradation of coloured dyes. <i>Journal of Molecular Liquids</i> , 2016, 221, 1029-1033.	4.9	608
2	ZnO/Ag/CdO nanocomposite for visible light-induced photocatalytic degradation of industrial textile effluents. <i>Journal of Colloid and Interface Science</i> , 2015, 452, 126-133.	9.4	579
3	ZnO/Ag/Mn ₂ O ₃ nanocomposite for visible light-induced industrial textile effluent degradation, uric acid and ascorbic acid sensing and antimicrobial activity. <i>RSC Advances</i> , 2015, 5, 34645-34651.	3.6	426
4	Preparation and characterization of V ₂ O ₅ /ZnO nanocomposite system for photocatalytic application. <i>Journal of Molecular Liquids</i> , 2014, 198, 409-412.	4.9	363
5	Crystallinity and lowering band gap induced visible light photocatalytic activity of TiO ₂ /CS (Chitosan) nanocomposites. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 1239-1245.	7.5	121
6	Visible light induced degradation of methyl orange using $\hat{1}^2$ -Ag _{0.333} V ₂ O ₅ nanorod catalysts by facile thermal decomposition method. <i>Journal of Saudi Chemical Society</i> , 2015, 19, 521-527.	5.2	106
7	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
8	The influence of the morphology of 1D TiO ₂ nanostructures on photogeneration of reactive oxygen species and enhanced photocatalytic activity. <i>Journal of Molecular Liquids</i> , 2019, 281, 59-69.	4.9	82
9	Line defect Ce ³⁺ induced Ag/CeO ₂ /ZnO nanostructure for visible-light photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 499-506.	3.9	73
10	Zinc oxide nanoparticles with incorporated silver: Structural, morphological, optical and vibrational properties. <i>Applied Surface Science</i> , 2015, 347, 561-568.	6.1	46
11	Synthesis and characterization of magnetite nanoparticles from mineral magnetite. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 343, 76-81.	2.3	39
12	High proportion ZnO/CuO nanocomposites: Synthesis, structural and optical properties, and their photocatalytic behavior. <i>Surfaces and Interfaces</i> , 2019, 17, 100367.	3.0	39
13	Characterization of chemically-deposited aluminum-doped CdS thin films with post-deposition thermal annealing. <i>Thin Solid Films</i> , 2017, 623, 127-134.	1.8	36
14	Electrocatalysis of the hydrogen evolution reaction by rhenium oxides electrodeposited by pulsed-current. <i>Electrochimica Acta</i> , 2015, 178, 739-747.	5.2	32
15	Ultrasonic-assisted sol-gel synthesis of TiO ₂ nanostructures: Influence of synthesis parameters on morphology, crystallinity, and photocatalytic performance. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 94, 477-485.	2.4	31
16	Characterization and hydrogen storage in multi-walled carbon nanotubes grown by aerosol-assisted CVD method. <i>Diamond and Related Materials</i> , 2014, 43, 66-71.	3.9	30
17	Fabrication of ZnSe nanoparticles: Structural, optical and Raman Studies. <i>Journal of Luminescence</i> , 2017, 192, 814-817.	3.1	30
18	Influence of oleic acid on the nucleation and growth of 4-N,N-dimethylamino-4-N-methyl-stilbazoliumtosylate (DAST) crystals. <i>CrystEngComm</i> , 2015, 17, 1989-1996.	2.6	29

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19	Photoluminescence from c-axis oriented ZnO films synthesized by sol-gel with diethanolamine as chelating agent. <i>Materials Science in Semiconductor Processing</i> , 2016, 56, 59-65.	4.0	27
20	Growth and electron field-emission of single-crystalline ZnO nanowires. <i>Materials Letters</i> , 2013, 93, 326-329.	2.6	26
21	Synthesis of Gd ₂ O ₃ /CdO composite by sol-gel method: Structural, morphological, optical, electrochemical and magnetic studies. <i>Vacuum</i> , 2020, 175, 109255.	3.5	25
22	Influence of micro- and nanoparticles of zirconium oxides on the dielectric properties of CaCu ₃ Ti ₄ O ₁₂ . <i>Ceramics International</i> , 2017, 43, 14659-14665.	4.8	21
23	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
24	Influence of TiO ₂ nanostructures on anti-adhesion and photoinduced bactericidal properties of thin film composite membranes. <i>RSC Advances</i> , 2016, 6, 82941-82948.	3.6	20
25	In situ production of tantalum carbide nanodispersoids in a copper matrix by reactive milling and hot extrusion. <i>Journal of Alloys and Compounds</i> , 2014, 598, 126-132.	5.5	18
26	Low temperature synthesis and blue photoluminescence of ZnS submicronparticles. <i>Materials Letters</i> , 2014, 129, 8-11.	2.6	17
27	Hydrothermal growth and characterization of zirconia nanostructures on non-stoichiometric zirconium oxide. <i>Ceramics International</i> , 2014, 40, 15577-15584.	4.8	15
28	The shell effect on the room temperature photoluminescence from ZnO/MgO core/shell nanowires: exciton-phonon coupling and strain. <i>Nanotechnology</i> , 2017, 28, 275702.	2.6	15
29	Data on study of hematite nanoparticles obtained from Iron(III) oxide by the Pechini method. <i>Data in Brief</i> , 2019, 25, 104183.	1.0	15
30	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). <i>Ionics</i> , 2019, 25, 1131-1136.	2.4	15
31	Influence of copper doping on structural, morphological, optical, and vibrational properties of ZnO nanoparticles synthesized by sol gel method. <i>Surfaces and Interfaces</i> , 2020, 21, 100700.	3.0	15
32	Hydrogen storage in purified multi-walled carbon nanotubes: gas hydrogenation cycles effect on the adsorption kinetics and their performance. <i>Heliyon</i> , 2021, 7, e08494.	3.2	15
33	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
34	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
35	K ₂ MnCl ₂ (H ₂ O) ₂ C ₂ O ₄ (HPO ₃) ₂ : a new 2D manganese(II) oxalatophosphate with double-layered honeycomb sheets stabilized by potassium ions. <i>CrystEngComm</i> , 2018, 20, 301-311.	2.6	11
36	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

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37	Characterization of rhenium compounds obtained by electrochemical synthesis after aging process. Journal of Solid State Chemistry, 2014, 220, 17-21.	2.9	9
38	Transmission electron microscopy study of electrodeposited rhenium and rhenium oxides. Materials Letters, 2013, 94, 44-46.	2.6	8
39	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
40	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
41	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
42	Sol-gel synthesis, structural, optical and magnetic characterization of Ag ₃ (2+x)Pr _x Nb ₄ ~xO ₁₁ +Î (0.0 â% x) Tj ETQq0 0 0 rgBT /Overloc	3.8	8
43	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
44	Structural and optical properties of gadolinium doped ZnTe thin films. Materials Letters, 2020, 268, 127562.	2.6	7
45	Structural, morphological, optical and magnetic properties of Ag 3(2+x) In x Nb 4-x O 11+Î (0.25â€-â%â€-xâ€-â%â€-1.0) nanoparticles synthesized by sol-gel method. Materials Research Bulletin, 2018, 105, 121-125.	5.2	6
46	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
47	Luminescence of ZnO/MgO phosphors. Optik, 2021, 243, 167416.	2.9	5
48	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
49	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
50	Study of the structural and optical properties of nanoparticles of Pr ₁ ~Sr 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. w3.org/1998/Math/MathML	3.5	4
51	$\text{Pr}_{1-x}\text{Sr}_x\text{MnO}_3$ nanoparticles: Synthesis and structural, optical and magnetic properties. Materials Research Bulletin, 2022, 151, 111805.	5.5	4
52	PrMnO ₃ porous nanostructures: Synthesis and structural, optical and magnetic properties. Materials Research Bulletin, 2022, 151, 111805.	5.2	4
53	Vibrational study of the liquid structure of molten Bismuth Germanate (Bi ₁₂ GeO ₂₀). Vibrational Spectroscopy, 2019, 100, 191-194.	2.2	3
54	Influence of Bi doping on the luminescence of ZnO phosphors. Optik, 2020, 218, 165102.	2.9	3

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55	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
56	Surface modification and polymerization on iron oxide nanoparticles obtained from mineral magnetite. Surfaces and Interfaces, 2019, 17, 100349.	3.0	2
57	Structure and Photoluminescence from Naturally Dispersed ZnTe Nanoparticles. Materials Express, 2019, 9, 173-178.	0.5	2
58	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
59	Vapor-Liquid-Solid Synthesis and Characterization of $\langle i \rangle \pm \langle /i \rangle$ -Monoclinic Selenium Nanowires. Journal of Nanoscience and Nanotechnology, 2009, 9, 4846-4850.	0.9	1
60	Data on A parametric temperature dependent potential for \hat{I}^2 -PbF2: A numerical investigation by molecular dynamics. Data in Brief, 2020, 28, 104865.	1.0	1
61	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
62	Estudio Exploratorio de Higiene Industrial en Ambientes de Trabajo Donde Se Producen o Utilizan Nanopartículas. Ciencia & Trabajo: C & T, 2013, 15, 124-130.	0.3	0
63	Temperature-dependent potential for the molecular dynamics of the superionic conductor \hat{I}^2 -PbF2. Heliyon, 2022, 8, e09026.	3.2	0
64	Photocatalytic behavior of TiO2 and TiO2/CS nanoparticles under UV irradiation. Revista UIS Ingenierías, 2022, 21, .	0.2	0