Jorge Enrique RodrÃ-guez PÃ¡ez

List of Publications by Year
in descending order

66 papers	1,766 citations	361296 20 h-index	276775 41 g-index
66 all docs	66 docs citations	66 times ranked	2186 citing authors

#	Article	IF	Citations
1	Load carrying capacity of concrete structures with corroded reinforcement. Construction and Building Materials, 1997, 11, 239-248.	3.2	380
2	Controlled precipitation methods: formation mechanism of ZnO nanoparticles. Journal of the European Ceramic Society, 2001, 21, 925-930.	2.8	145
3	ZnO nanoparticles (ZnO-NPs) and their antifungal activity against coffee fungus Erythricium salmonicolor. Applied Nanoscience (Switzerland), 2017, 7, 225-241.	1.6	141
4	Synthesis of SnO2 nanoparticles through the controlled precipitation route. Materials Chemistry and Physics, 2007, 101, 433-440.	2.0	137
5	Cerium oxide nanoparticles: Synthesis, characterization and tentative mechanism of particle formation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 529, 146-159.	2.3	104
6	Amorphous TiO2 nanoparticles: Synthesis and antibacterial capacity. Journal of Non-Crystalline Solids, 2017, 459, 192-205.	1.5	78
7	ZnO-based nanofungicides: Synthesis, characterization and their effect on the coffee fungi Mycena citricolor and Colletotrichum sp.. Materials Science and Engineering C, 2019, 98, 808-825.	3.8	47
8	Role of defects on the enhancement of the photocatalytic response of ZnO nanostructures. Applied Surface Science, 2018, 448, 646-654.	3.1	46
9	Antifungal effect of zinc oxide nanoparticles (ZnO-NPs) on Colletotrichum sp., causal agent of anthracnose in coffee crops. Biocatalysis and Agricultural Biotechnology, 2020, 25, 101579.	1.5	45
10	Thermal behaviour of romarchite phase SnO in different atmospheres: a hypothesis about the phase transformation. Heliyon, 2016, 2, e00112.	1.4	43
11	Synthesis of ZnO nanoparticles with different morphology: Study of their antifungal effect on strains of Aspergillus niger and Botrytis cinerea. Materials Chemistry and Physics, 2019, 234, 172-184.	2.0	33
12	Synthesis of SnO2 by chemical routes and its use in varistors production. Journal of the European Ceramic Society, 2007, 27, 3893-3896.	2.8	31
13	Solvent effects in the synthesis process of tin oxide. Journal of Non-Crystalline Solids, 2009, 355, 885-890.	1.5	30
14	ZnO-TiO2 nanocomposites synthesized by wet-chemical route: Study of their structural and optical properties. Materials Chemistry and Physics, 2019, 222, 230-245.	2.0	27
15	Structural and Optical Properties of CeO2 Nanoparticles Synthesized by Modified Polymer Complex Method. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 813-826.	1.9	26
16	Comparative study of two wet chemical methods of BaSnO3 synthesis: Mechanism of formation of mixed oxide. Powder Technology, 2015, 279, 86-95.	2.1	25
17	Nanocystalline ZnO films prepared via polymeric precursor method (Pechini). Physica B: Condensed Matter, 2010, 405, 3679-3684.	1.3	23
18	Growth and formation mechanism of shape-selective preparation of ZnO structures: correlation of structural, vibrational and optical properties. Physical Chemistry Chemical Physics, 2020, 22, 7329-7339.	1.3	23

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19	SnO2â€“Bi2O3 and SnO2â€“Sb2O3 gas sensors obtained by soft chemical method. Journal of the European Ceramic Society, 2007, 27, 4143-4146.	2.8	21
20	Wet-chemical preparation of TiO2-nanostructures using different solvents: Effect of CTAB concentration and tentative mechanism of particle formation. Journal of Alloys and Compounds, 2019, 780, 756-771.	2.8	21
21	The influence of the synthesis route on the final properties of SnO2-based varistors. Ceramics International, 2008, 34, 563-571.	2.3	20
22	Controlled synthesis of ZnO nanoparticles and evaluation of their toxicity in Mus musculus mice. International Nano Letters, 2018, 8, 165-179.	2.3	20
23	Chemical Synthesis and Characterization of ZnOâ€“TiO2 Semiconductor Nanocomposites: Tentative Mechanism of Particle Formation. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1739-1752.	1.9	19
24	Nanoparticles of ZnO and Mg-doped ZnO: Synthesis, characterization and efficient removal of methyl orange (MO) from aqueous solution. Ceramics International, 2021, 47, 15668-15681.	2.3	18
25	MgO nanostructures: Synthesis, characterization and tentative mechanisms of nanoparticles formation. Nano Structures Nano Objects, 2020, 23, 100482.	1.9	18
26	Calcium oxyhydroxide (CaO/Ca(OH)2) nanoparticles: Synthesis, characterization and evaluation of their capacity to degrade glyphosate-based herbicides (GBH). Advanced Powder Technology, 2021, 32, 237-253.	2.0	17
27	The effect of the synthesis conditions on structure and photocatalytic activity of Nb2O5 nanostructures. Processing and Application of Ceramics, 2018, 12, 218-229.	0.4	17
28	Efficient removal of a glyphosate-based herbicide from water using ZnO nanoparticles (ZnO-NPs). Biocatalysis and Agricultural Biotechnology, 2019, 22, 101434.	1.5	16
29	Synthesis and characterization of ZnO nanoparticles: effect of solvent and antifungal capacity of NPs obtained in ethylene glycol. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	14
30	Facile Synthesis of TiO2 Nanoparticles of Different Crystalline Phases and Evaluation of Their Antibacterial Effect Under Dark Conditions Against E. coli. Journal of Cluster Science, 2019, 30, 379-391.	1.7	11
31	Estudio comparativo de dos mÃ©todos de sÃntesis para la obtenciÃ³n de polvos cerÃ¡micos de ZnO - Pr₂O₃ - CoO. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2004, 43, 740-744.	0.9	11
32	TiO₂ sintetizado por el mÃ©todo de precursor polimerico (Pechini): estructura de la resina intermedia. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2011, 50, 267-272.	0.9	11
33	Modification of sensitivity of BaSnO₃ sensor due to parameters of synthesis and formation of the device. Journal of Materials Research, 2015, 30, 3423-3430.	1.2	10
34	Removal of Rhodamine 6G in the absence of UV radiation using ceria nanoparticles (CeO2-NPs). Journal of Environmental Chemical Engineering, 2020, 8, 103518.	3.3	10
35	Uso de mÃ©todos quÃmicos para obtener polvos cerÃ¡micos del sistema (Sn, Ti)O₂. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2005, 44, 215-222.	0.9	10
36	Evidence of a cluster glass-like behavior in Fe-doped ZnO nanoparticles. Journal of Applied Physics, 2014, 115, 17E123.	1.1	9

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37	Chemical synthesis versus green synthesis to obtain ZnO powders: Evaluation of the antibacterial capacity of the nanoparticles obtained by the chemical method. Journal of Environmental Chemical Engineering, 2021, 9, 106544.	3.3	9
38	Mn-Doping Effects on Structure and Magnetic Properties of ZnO Nanoparticles. Journal of Low Temperature Physics, 2015, 179, 42-47.	0.6	8
39	Nanoparticles of zinc stannates (ZTO): Synthesis, characterization and electrical behavior in oxygen and acetone vapors. Ceramics International, 2020, 46, 2016-2032.	2.3	8
40	Relation between Crack Width and Diameter of Rebar Loss Due to Corrosion of Reinforced Concrete Members. ECS Transactions, 2007, 3, 29-36.	0.3	7
41	Structural and microstructural characterization of tin(II) oxide useful as anode material in lithium rechargeable batteries obtained from a different synthesis route at room temperature. Materials Research, 2011, 14, 172-177.	0.6	7
42	Micro/nanoscale mesoporous Nb2O5 particles: Effect of synthesis conditions and doping with N, C, or S on their properties. Nano Structures Nano Objects, 2019, 17, 43-57.	1.9	7
43	Shape-control of Zinc Oxide nanoparticles: enhancing photocatalytic activity under UV irradiation. Journal of Physics: Conference Series, 2017, 792, 012068.	0.3	6
44	ZnO-CeO2 nanocomposites: Synthesis, characterization and evaluation of their action on polluting gases emitted by motorcycles. Journal of Environmental Chemical Engineering, 2021, 9, 104890.	3.3	6
45	Gas Sensors Based on Porous Ceramic Bodies of MSnO3 Perovskites (M = Ba, Ca, Zn): Formation and Sensing Properties towards Ethanol, Acetone, and Toluene Vapours. Molecules, 2022, 27, 2889.	1.7	6
46	Estudio de la formacion de los complejos intermedios durante la sintesis de alumina. Materials Research, 2001, 4, 255-264.	0.6	4
47	Effect of the synthetic method on the catalytic activity of alumina: Epoxidation of cyclohexene. Materials Research Bulletin, 2015, 62, 80-87.	2.7	4
48	Electrical behavior of BaSnO3 bulk samples formed by slip casting: Effect of synthesis methods used for obtaining the ceramic powders. Materials Research Bulletin, 2016, 78, 172-178.	2.7	4
49	Study of the structural and optical properties of nanoparticles of Pr1â^'Sr MnO3 (xÂ=Â0.1, 0.2, 0.3, 0.4 and) Tj ETQq1 1 0.784314 rgBT Materials for Advanced Technology, 2020, 260, 114617.	1.7	4
50	On the paramagnetic behavior of heavily doped Zn1â^'xMnxO films fabricated by Pechiniâ€™s method. Superlattices and Microstructures, 2012, 52, 249-260.	1.4	3
51	Photocatalytic Properties of Nb/MCM-41 Molecular Sieves: Effect of the Synthesis Conditions. Coatings, 2015, 5, 511-526.	1.2	3
52	Electrical Behavior of SnO2 Polycrystalline Ceramic Pieces Formed by Slip Casting: Effect of Surrounding Atmosphere (Air and CO). Journal of Electronic Materials, 2016, 45, 576-593.	1.0	3
53	SÃntesis de polvos cerÃ¡micos por el mÃ©todo de precipitaciÃ³n. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2001, 40, 173-184.	0.9	3
54	Efectos de fotodegradaciÃ³n propiciados por recubrimientos de TiO₂ y TiO₂-SiO₂ obtenidos por Sol-Gel. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2008, 47, 259-266.	0.9	3

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55	ObtenciÃ³n de nano-estructuras bi-dimensionales de SnO₂ utilizando el mÃ©todo pechini: estudio de la conformaciÃ³n de la resina. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2008, 47, 278-286.	0.9	3
56	Efecto de la naturaleza del precursor sobre las caracteristicas de las nanoparticulas de SnO2 sintetizadas. Quimica Nova, 2007, 30, 1578-1583.	0.3	2
57	ModificaciÃ³n quÃmica del precursor de titanio para obtener soles estables de silice Ã¢Â€Â“ titania: Uso de acetilacetona. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2004, 43, 53-55.	0.9	2
58	ObtenciÃ³n de silicatos de calcio utilizando el mÃ©todo de precipitaciÃ³n controlada. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2005, 44, 421-426.	0.9	2
59	MÃ©todos quÃmicos para obtener varistores basados en SnO₂. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2006, 45, 372-378.	0.9	2
60	SÃntesis de polvos de BaTiO₃ por mecanoquÃmica. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2002, 41, 177-181.	0.9	1
61	Influencia del TiO₂ y Al₂O₃ sobre las propiedades elÃ©ctricas y microestructurales de cerÃ¡micas de SnO₂ obtenidas por el mÃ©todo Pechini. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2008, 47, 24-28.	0.9	1
62	Semiconductor magnÃ©ticamente diluido de SnO2- Fe obtenido por precipitaciÃ³n controlada. DYNA (Colombia), 2017, 84, 253.	0.2	1
63	Synthesis and Characterization of Zirconium Oxide Systems with Yttrium Rich Rare Earth Concentrate Additives. Materials Science Forum, 2014, 798-799, 174-181.	0.3	0
64	TiO2 Nanostructures (TiO2-NSs): Synthesis, Characterization and Evaluation of Their Toxicity in the Swiss albino Mouse. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 1049-1064.	1.9	0
65	SÃntesis de ZnO con morfologÃa acicular por el mÃ©todo de precipitaciÃ³n controlada (MPC) y su uso como refuerzo de elastÃ³meros. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2006, 45, 283-288.	0.9	0
66	ObtenciÃ³n y caracterizaciÃ³n de recubrimientos de TiO2 por el mÃ©todo de complejo polimerizable (PECHINI). Respuestas, 2010, 15, 25-32.	0.2	0