Fermin Fidel Herrera AragÃ³n

List of Publications by Year
in descending order

48 papers	864 citations	471509 17 h-index	526287 27 g-index
48 all docs	48 docs citations	48 times ranked	1240 citing authors

#	Article	IF	Citations
1	Evidences of the evolution from solid solution to surface segregation in Niâ€doped SnO₂ nanoparticles using Raman spectroscopy. Journal of Raman Spectroscopy, 2011, 42, 1081-1086.	2.5	72
2	Structural and Surface Study of Praseodymium-Doped SnO₂ Nanoparticles Prepared by the Polymeric Precursor Method. Journal of Physical Chemistry C, 2015, 119, 8711-8717.	3.1	63
3	Synthesis and characterization of 159 Gd-doped hydroxyapatite nanorods for bioapplications as theranostic systems. Materials Chemistry and Physics, 2016, 181, 301-311.	4.0	56
4	Effects of silica coating on the magnetic properties of magnetite nanoparticles. Surfaces and Interfaces, 2019, 14, 34-43.	3.0	51
5	Structural and magnetic properties of pure and nickel doped SnO₂nanoparticles. Journal of Physics Condensed Matter, 2010, 22, 496003.	1.8	50
6	Evolution of the doping regimes in the Al-doped SnO₂nanoparticles prepared by a polymer precursor method. Journal of Physics Condensed Matter, 2015, 27, 095301.	1.8	44
7	Spin-glass-like behavior of uncompensated surface spins in NiO nanoparticulated powder. Physica B: Condensed Matter, 2012, 407, 2601-2605.	2.7	43
8	Effect of the thickness reduction on the structural, surface and magnetic properties of Î±-Fe2O3 thin films. Thin Solid Films, 2016, 607, 50-54.	1.8	32
9	Experimental study of the structural, microscopy and magnetic properties of Ni-doped SnO2 nanoparticles. Journal of Non-Crystalline Solids, 2010, 356, 2960-2964.	3.1	29
10	Fe doping effect on the structural, magnetic and surface properties of SnO₂nanoparticles prepared by a polymer precursor method. Journal Physics D: Applied Physics, 2016, 49, 155002.	2.8	27
11	Evidence of Cr³⁺ and Cr⁴⁺ Coexistence in Chromium-Doped SnO₂ Nanoparticles: A Structural and Magnetic Study. Journal of Physical Chemistry C, 2017, 121, 21670-21677.	3.1	26
12	Washing effect on the structural and magnetic properties of NiFe 2 O 4 nanoparticles synthesized by chemical sol-gel method. Materials Chemistry and Physics, 2018, 213, 295-304.	4.0	23
13	Observations of phonon anharmonicity and microstructure changes by the laser power dependent Raman spectra in Co doped SnO2 nanoparticles. Journal of Alloys and Compounds, 2020, 831, 154836.	5.5	21
14	Cobalt doping induced shape transformation and its effect on luminescence in zinc oxide rod-like nanostructures. Journal of Alloys and Compounds, 2021, 868, 159189.	5.5	20
15	Fe-doping effects on the structural, vibrational, magnetic, and electronic properties of ceria nanoparticles. Journal of Applied Physics, 2017, 122, .	2.5	19
16	Tailoring the physical and chemical properties of Sn_{1â^'x}Co_xO₂ nanoparticles: an experimental and theoretical approach. Physical Chemistry Chemical Physics, 2020, 22, 3702-3714.	2.8	19
17	Tuning the Magnetic Properties of FeCo Thin Films through the Magnetoelastic Effect Induced by the Au Underlayer Thickness. ACS Applied Materials & Interfaces, 2019, 11, 1529-1537.	8.0	18
18	Characterization of polycrystalline SnO2 films deposited by DC sputtering technique with potential for technological applications. Journal of the European Ceramic Society, 2017, 37, 3375-3380.	5.7	16

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19	Engineering of the band gap induced by Ce surface enrichment in Ce-doped SnO2 nanocrystals. Applied Surface Science, 2020, 527, 146794.	6.1	16
20	PEGylation of SPIONs by polycondensation reactions: a new strategy to improve colloidal stability in biological media. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	14
21	Evidence of surface spin-glass behavior in NiFe2O4 nanoparticles determined using magnetic resonance technique. Journal of Magnetism and Magnetic Materials, 2019, 476, 392-397.	2.3	14
22	Experimental evidences of substitutional solution of Er dopant in Er-doped SnO2 nanoparticles. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	13
23	Long-range ferromagnetic order induced by a donor impurity band exchange in SnO2:Er3+ nanoparticles. Journal of Applied Physics, 2013, 114, .	2.5	13
24	Structural and hyperfine properties of Cr-doped SnO₂nanoparticles. Journal of Physics: Conference Series, 2010, 217, 012079.	0.4	12
25	Magnetic nanohydrogel obtained by miniemulsion polymerization of poly(acrylic acid) grafted onto derivatized dextran. Carbohydrate Polymers, 2017, 178, 378-385.	10.2	11
26	Study of Columnar Growth Polycrystalline (Sn, Cr) co-doped In2O3 films deposited by sputtering technique for potential gas sensors applications. Vacuum, 2018, 157, 475-480.	3.5	11
27	Growth and vacuum post-annealing effect on the structural, electrical and optical properties of Sn-doped In2O3 thin films. Thin Solid Films, 2020, 709, 138207.	1.8	11
28	Doping effects on the structural, magnetic, and hyperfine properties of Gd-doped SnO2 nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	10
29	Effects of particle size on the structural and hyperfine properties of tin dioxide nanoparticles. Hyperfine Interactions, 2011, 202, 73-79.	0.5	9
30	Thermal-annealing effects on the structural and magnetic properties of 10% Fe-doped SnO2 nanoparticles synthetized by a polymer precursor method. Journal of Magnetism and Magnetic Materials, 2015, 375, 74-79.	2.3	9
31	Magnetite-based nanobioplatform for site delivering Croton cajucara Benth essential oil. Materials Chemistry and Physics, 2018, 207, 243-252.	4.0	9
32	Evidence of particle-particle interaction quenching in nanocomposite based on oleic acid-coated Fe3O4 nanoparticles after over-coating with essential oil extracted from Croton cajucara Benth. Journal of Magnetism and Magnetic Materials, 2018, 466, 359-367.	2.3	9
33	Structural and hyperfine properties of Ni-doped SnO2 nanoparticles. Hyperfine Interactions, 2012, 211, 77-82.	0.5	8
34	The effect of oxygen vacancies on the hyperfine properties of metal-doped SnO₂. Journal Physics D: Applied Physics, 2017, 50, 115103.	2.8	8
35	Stoichiometry and Orientation- and Shape-Mediated Switching Field Enhancement of the Heating Properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Fe</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:math> Circular Nanodiscs. Physical Review Applied, 2021, 15, .	4.6	8
36	Fe content effects on structural, electrical and magnetic properties of Fe-doped ITO polycrystalline powders. Journal of Alloys and Compounds, 2021, 867, 158866.	5.5	7

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37	Exotic sulphate and phosphate speleothems in caves from eastern Amazonia (CarajÃ¡s, Brazil): Crystallographic and chemical insights. Journal of South American Earth Sciences, 2019, 90, 412-422.	1.4	6
38	Field-driven spin reorientation in SmMnO3 polycrystalline powders. Journal of Alloys and Compounds, 2020, 845, 156327.	5.5	6
39	Lattice strain effects on the structural properties and band gap tailoring in columnarly grown Fe-doped SnO₂ films deposited by DC sputtering. Journal Physics D: Applied Physics, 2019, 52, 465306.	2.8	5
40	Tuning the magnetic properties of Sn_{1â^'xâ^'y}Ce_{4+x}Ce_{3+y}O₂ nanoparticles: an experimental and theoretical approach. Nanoscale Advances, 2021, 3, 1484-1495.	4.6	5
41	Tuning the photocatalytic activity of ZnO nanoparticles by the annihilation of intrinsic defects provoked by the thermal annealing. Journal of Nanoparticle Research, 2022, 24, 1.	1.9	5
42	Indirect excitation and luminescence activation of Tb doped indium tin oxide and its impact on the hostâ€™s optical and electrical properties. Journal Physics D: Applied Physics, 2022, 55, 210002.	2.8	4
43	Influence of Dy doping on the structural, vibrational, optical, electronic, and magnetic properties of SnO2 nanoparticles. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	3
44	Size controlling and tailoring the properties of Gd Zn1-O nanoparticles. Ceramics International, 2022, 48, 4324-4331.	4.8	3
45	Thermal annealing effects on the structural, magnetic and hyperfine properties of the Fe/SnO2/Fe thin film deposited by RF sputtering method. Materials Science in Semiconductor Processing, 2019, 93, 182-187.	4.0	2
46	Effect of annealing temperature on the structural, thermoluminescent, and optical properties of naturally present salt from Lluta region of Peru. Optical Materials, 2022, 126, 112215.	3.6	2
47	A Mesoporous SiO2/Î³-Fe2O3/KI Heterogeneous Magnetic Catalyst for the Green Synthesis of Biodiesel. Journal of the Brazilian Chemical Society, 2016, , .	0.6	1
48	Tuning intrinsic defects in ZnO films by controlling the vacuum annealing temperature: an experimental and theoretical approach. Physica Scripta, 2022, 97, 075811.	2.5	1