

# Fermin Fidel Herrera Aragón

## List of Publications by Year in descending order

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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	Size controlling and tailoring the properties of Gd Zn1-O nanoparticles. Ceramics International, 2022, 48, 4324-4331.	4.8	3
2	Indirect excitation and luminescence activation of Tb doped indium tin oxide and its impact on the host's optical and electrical properties. Journal Physics D: Applied Physics, 2022, 55, 210002.	2.8	4
3	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
4	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
5	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
6	Tuning the magnetic properties of $\text{Sn}_{1-x}\text{Ce}_x\text{O}_2$ nanoparticles: an experimental and theoretical approach. Nanoscale Advances, 2021, 3, 1484-1495.	4.6	5
7	Stoichiometry and Orientation- and Shape-Mediated Switching Field Enhancement of the Heating Properties of $\text{Fe}_3\text{O}_4$ Nanoparticles. Physical Review Applied, 2021, 15, 014002.	3.8	8
8	Influence of Dy doping on the structural, vibrational, optical, electronic, and magnetic properties of $\text{SnO}_2$ nanoparticles. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	3
9	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
10	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
11	Field-driven spin reorientation in $\text{SmMnO}_3$ polycrystalline powders. Journal of Alloys and Compounds, 2020, 845, 156327.	5.5	6
12	Engineering of the band gap induced by Ce surface enrichment in Ce-doped $\text{SnO}_2$ nanocrystals. Applied Surface Science, 2020, 527, 146794.	6.1	16
13	Growth and vacuum post-annealing effect on the structural, electrical and optical properties of Sn-doped $\text{In}_2\text{O}_3$ thin films. Thin Solid Films, 2020, 709, 138207.	1.8	11
14	Tailoring the physical and chemical properties of $\text{Sn}_x\text{Co}_x\text{O}_2$ nanoparticles: an experimental and theoretical approach. Physical Chemistry Chemical Physics, 2020, 22, 3702-3714.	2.8	19
15	Observations of phonon anharmonicity and microstructure changes by the laser power dependent Raman spectra in Co doped $\text{SnO}_2$ nanoparticles. Journal of Alloys and Compounds, 2020, 831, 154836.	5.5	21
16	Lattice strain effects on the structural properties and band gap tailoring in columnarly grown Fe-doped $\text{SnO}_2$ films deposited by DC sputtering. Journal Physics D: Applied Physics, 2019, 52, 465306.	2.8	5
17	Exotic sulphate and phosphate speleothems in caves from eastern Amazonia (Carajás, Brazil): Crystallographic and chemical insights. Journal of South American Earth Sciences, 2019, 90, 412-422.	1.4	6
18	Effects of silica coating on the magnetic properties of magnetite nanoparticles. Surfaces and Interfaces, 2019, 14, 34-43.	3.0	51

#	ARTICLE	IF	CITATIONS
19	Evidence of surface spin-glass behavior in NiFe <sub>2</sub> O <sub>4</sub> nanoparticles determined using magnetic resonance technique. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 476, 392-397.	2.3	14
20	Thermal annealing effects on the structural, magnetic and hyperfine properties of the Fe/SnO <sub>2</sub> /Fe thin film deposited by RF sputtering method. <i>Materials Science in Semiconductor Processing</i> , 2019, 93, 182-187.	4.0	2
21	Tuning the Magnetic Properties of FeCo Thin Films through the Magnetoelastic Effect Induced by the Au Underlayer Thickness. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1529-1537.	8.0	18
22	Washing effect on the structural and magnetic properties of NiFe <sub>2</sub> O <sub>4</sub> nanoparticles synthesized by chemical sol-gel method. <i>Materials Chemistry and Physics</i> , 2018, 213, 295-304.	4.0	23
23	Magnetite-based nanobioplatforam for site delivering Croton cajucara Benth essential oil. <i>Materials Chemistry and Physics</i> , 2018, 207, 243-252.	4.0	9
24	Evidence of particle-particle interaction quenching in nanocomposite based on oleic acid-coated Fe <sub>3</sub> O <sub>4</sub> nanoparticles after over-coating with essential oil extracted from Croton cajucara Benth. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 466, 359-367.	2.3	9
25	Study of Columnar Growth Polycrystalline (Sn, Cr) co-doped In <sub>2</sub> O <sub>3</sub> films deposited by sputtering technique for potential gas sensors applications. <i>Vacuum</i> , 2018, 157, 475-480.	3.5	11
26	The effect of oxygen vacancies on the hyperfine properties of metal-doped SnO <sub>2</sub> . <i>Journal Physics D: Applied Physics</i> , 2017, 50, 115103.	2.8	8
27	Characterization of polycrystalline SnO <sub>2</sub> films deposited by DC sputtering technique with potential for technological applications. <i>Journal of the European Ceramic Society</i> , 2017, 37, 3375-3380.	5.7	16
28	Magnetic nanohydrogel obtained by miniemulsion polymerization of poly(acrylic acid) grafted onto derivatized dextran. <i>Carbohydrate Polymers</i> , 2017, 178, 378-385.	10.2	11
29	Evidence of Cr <sup>3+</sup> and Cr <sup>4+</sup> Coexistence in Chromium-Doped SnO <sub>2</sub> Nanoparticles: A Structural and Magnetic Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21670-21677.	3.1	26
30	Fe-doping effects on the structural, vibrational, magnetic, and electronic properties of ceria nanoparticles. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	19
31	A Mesoporous SiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> /KI Heterogeneous Magnetic Catalyst for the Green Synthesis of Biodiesel. <i>Journal of the Brazilian Chemical Society</i> , 2016, .	0.6	1
32	Effect of the thickness reduction on the structural, surface and magnetic properties of Fe <sub>1-x</sub> Fe <sub>2</sub> O <sub>3</sub> thin films. <i>Thin Solid Films</i> , 2016, 607, 50-54.	1.8	32
33	Fe doping effect on the structural, magnetic and surface properties of SnO <sub>2</sub> nanoparticles prepared by a polymer precursor method. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 155002.	2.8	27
34	Synthesis and characterization of 159 Gd-doped hydroxyapatite nanorods for bioapplications as theranostic systems. <i>Materials Chemistry and Physics</i> , 2016, 181, 301-311.	4.0	56
35	Evolution of the doping regimes in the Al-doped SnO <sub>2</sub> nanoparticles prepared by a polymer precursor method. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 095301.	1.8	44
36	Structural and Surface Study of Praseodymium-Doped SnO <sub>2</sub> Nanoparticles Prepared by the Polymeric Precursor Method. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8711-8717.	3.1	63

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37	Thermal-annealing effects on the structural and magnetic properties of 10% Fe-doped SnO <sub>2</sub> nanoparticles synthesized by a polymer precursor method. Journal of Magnetism and Magnetic Materials, 2015, 375, 74-79.	2.3	9
38	Doping effects on the structural, magnetic, and hyperfine properties of Gd-doped SnO <sub>2</sub> nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	10
39	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
40	Experimental evidences of substitutional solution of Er dopant in Er-doped SnO <sub>2</sub> nanoparticles. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	13
41	Long-range ferromagnetic order induced by a donor impurity band exchange in SnO <sub>2</sub> :Er <sup>3+</sup> nanoparticles. Journal of Applied Physics, 2013, 114, .	2.5	13
42	Structural and hyperfine properties of Ni-doped SnO <sub>2</sub> nanoparticles. Hyperfine Interactions, 2012, 211, 77-82.	0.5	8
43	Spin-glass-like behavior of uncompensated surface spins in NiO nanoparticulated powder. Physica B: Condensed Matter, 2012, 407, 2601-2605.	2.7	43
44	Effects of particle size on the structural and hyperfine properties of tin dioxide nanoparticles. Hyperfine Interactions, 2011, 202, 73-79.	0.5	9
45	Evidences of the evolution from solid solution to surface segregation in Ni-doped SnO <sub>2</sub> nanoparticles using Raman spectroscopy. Journal of Raman Spectroscopy, 2011, 42, 1081-1086.	2.5	72
46	Structural and hyperfine properties of Cr-doped SnO <sub>2</sub> nanoparticles. Journal of Physics: Conference Series, 2010, 217, 012079.	0.4	12
47	Structural and magnetic properties of pure and nickel doped SnO <sub>2</sub> nanoparticles. Journal of Physics Condensed Matter, 2010, 22, 496003.	1.8	50
48	Experimental study of the structural, microscopy and magnetic properties of Ni-doped SnO <sub>2</sub> nanoparticles. Journal of Non-Crystalline Solids, 2010, 356, 2960-2964.	3.1	29