Claudia E RodrÃ-guez Torres

List of Publications by Year
in descending order

53 papers	1,078 citations	430874 18 h-index	414414 32 g-index
53 all docs	53 docs citations	53 times ranked	1456 citing authors

#	Article	IF	Citations
1	Appearance of room-temperature ferromagnetism in Cu-dopedTiO2â^'Î´films. Physical Review B, 2005, 72, .	3.2	219
2	Oxygen-vacancy-induced local ferromagnetism as a driving mechanism in enhancing the magnetic response of ferrites. Physical Review B, 2014, 89, .	3.2	80
3	Nb-containing hematites Fe2â^'xNbxO3: The role of Nb5+ on the reactivity in presence of the H2O2 or ultraviolet light. Applied Catalysis A: General, 2009, 357, 79-84.	4.3	66
4	Evidence of defect-induced ferromagnetism in ZnFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>thin films. Physical Review B, 2011, 84, .	3.2	54
5	Development of iron modified MCM-41 as promising nano-composites with specific magnetic behavior. Microporous and Mesoporous Materials, 2015, 203, 106-115.	4.4	47
6	Advances in methods to obtain and characterise room temperature magnetic ZnO. Applied Physics Letters, 2015, 106, 082406.	3.3	37
7	The role of the dopant in the magnetism of Fe-doped SnO2 films. Journal of Magnetism and Magnetic Materials, 2007, 316, e219-e222.	2.3	35
8	Extrinsic origin of ferromagnetism in single crystalline LaAlO3 substrates and oxide films. Applied Physics Letters, 2008, 92, .	3.3	35
9	Study of the relation between oxygen vacancies and ferromagnetism in Fe-doped TiO2 nano-powders. Journal of Applied Physics, 2014, 115, .	2.5	32
10	Degradation of methylene blue dye under dark and visible light conditions in presence of hybrid composites of nanostructured MgFe2O4 ferrites and oxygenated organic compounds. Journal of Environmental Chemical Engineering, 2020, 8, 104274.	6.7	29
11	Ab initio study of the role of defects on the magnetic response and the structural, electronic and hyperfine properties of ZnFe2O4. Journal of Alloys and Compounds, 2019, 775, 1117-1128.	5.5	28
12	Ab initio calculation of structural, electronic and magnetic properties and hyperfine parameters at the Fe sites of pristine ZnFe2O4. Journal of Alloys and Compounds, 2018, 741, 746-755.	5.5	26
13	Mechanosynthesis of Fe-doped SnO2 nanoparticles. Physica B: Condensed Matter, 2007, 398, 215-218.	2.7	24
14	MÃ¶ssbauer study of mechanical alloyed Fe-doped TiO2 compounds. Physica B: Condensed Matter, 2004, 354, 67-70.	2.7	22
15	Magnetic and structural study of Cu-doped TiO2 thin films. Applied Surface Science, 2007, 254, 365-367.	6.1	21
16	Ab Initio Study of the Ferromagnetic Response, Local Structure, and Hyperfine Properties of Fe-Doped SnO₂. Journal of Physical Chemistry C, 2015, 119, 5596-5603.	3.1	21
17	Detailed magnetic dynamic behaviour of nanocomposite iron oxide aerogels. Journal of Physics Condensed Matter, 2005, 17, 6519-6531.	1.8	20
18	Role of defects on the magnetic behaviour of the geometrically frustrated spinel ZnFe2O4. Journal of Alloys and Compounds, 2018, 752, 289-295.	5.5	20

#	Article	IF	Citations
19	Magnetic and structural study of Fe doped tin dioxide. Physica B: Condensed Matter, 2009, 404, 2834-2837.	2.7	19
20	Influence of thermal treatments on phase formation and magnetic behaviour in metal transition doped TiO2. Physica B: Condensed Matter, 2007, 389, 103-106.	2.7	18
21	Study of Fe-doped rutile TiO2 alloys obtained by mechanical alloying. Physica B: Condensed Matter, 2006, 384, 345-347.	2.7	16
22	Experimental and ab initio study of the hyperfine parameters of ZnFe 2 O 4 with defects. Hyperfine Interactions, 2016, 237, 1.	0.5	15
23	Decomposition ofFe2B by mechanical grinding. Physical Review B, 1995, 51, 12142-12148.	3.2	14
24	Magnetic behavior of nanoclusters of Fe-doped SnO2. Physica B: Condensed Matter, 2007, 389, 176-179.	2.7	14
25	ZnO:Co diluted magnetic semiconductor or hybrid nanostructure for spintronics?. Journal of Materials Science, 2010, 45, 6174-6178.	3.7	14
26	XAS study of the local environment of impurities in doped TiO2 thin films. Physica B: Condensed Matter, 2007, 398, 219-222.	2.7	13
27	Room-Temperature Ferromagnetism Induced by High-Pressure Hydrogenation of ZnO. Journal of Physical Chemistry C, 2019, 123, 19851-19861.	3.1	11
28	The relationship between magnetic behaviour and local structure around Fe ions in Fe-doped TiO2 rutile. Physica B: Condensed Matter, 2009, 404, 2838-2840.	2.7	10
29	Producing ZnFe2O4 thin films from ZnO/FeO multilayers. Applied Surface Science, 2017, 393, 256-261.	6.1	10
30	Influence of substrate effects in magnetic and transport properties of magnesium ferrite thin films. Journal of Magnetism and Magnetic Materials, 2019, 469, 643-649.	2.3	10
31	Ab-initio approach to the stability and the structural, electronic and magnetic properties of the (001) Znfe2O4 surface terminations. Applied Surface Science, 2020, 499, 143859.	6.1	10
32	Observation of Room-Temperature Ferromagnetism Induced by High-Pressure Hydrogenation of Anatase TiO₂. Journal of Physical Chemistry C, 2021, 125, 14366-14377.	3.1	8
33	Crystallisation kinetics of B-rich mischmetalâ€“Feâ€“B nanocomposite ribbons. Physica B: Condensed Matter, 2004, 354, 237-240.	2.7	7
34	Calibration of the isomer shift of the 14.4ÂkeV transitionÂofÂ 57 Fe. Hyperfine Interactions, 2011, 202, 117-121.	0.5	7
35	Surface magnetic contribution in zinc ferrite thin films studied by element- and site-specific XMCD hysteresis-loops. Journal of Magnetism and Magnetic Materials, 2016, 419, 98-104.	2.3	7
36	Structural, Electronic, and Magnetic Properties and Hyperfine Interactions at the Fe Sites of the Spinel TiFe₂O₄. Ab Initio, XANES, and MÃ¶ssbauer Study. Journal of Physical Chemistry C, 2019, 123, 21694-21703.	3.1	7

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37	Structural and magnetic characterization of Fe0.3Ti0.7O2âˆ'Î´ films obtained by pulsed laser deposition. Physica B: Condensed Matter, 2006, 384, 341-344.	2.7	6
38	Ferromagnetism in doped TiO2thin films prepared by PLD. Journal of Physics: Conference Series, 2007, 59, 479-482.	0.4	6
39	Low temperature magnetic ordering in Fe-doped TiO 2 samples. Hyperfine Interactions, 2010, 195, 155-159.	0.5	6
40	Effect of nanostructured ferrites MFe2O4 (M= Cu, Co, Mg, Zn) on the thermal decomposition of ammonium nitrate. Applications in Energy and Combustion Science, 2021, 6, 100026.	1.5	5
41	EXAFS determination of Hf localization in HDDRâ€“Ndâ€“Feâ€“Bâ€“Hf alloys. Physica B: Condensed Matter, 2005, 362, 145-152.	2.7	4
42	MÃ¶ssbauer study of Sn(Fe)O2 prepared by mechanosynthesis. Hyperfine Interactions, 2007, 179, 45-50.	0.5	4
43	Relationship between structural and magnetic properties in (Ti,Fe)O2 powders obtained by mechanical milling. Physica B: Condensed Matter, 2012, 407, 3225-3228.	2.7	4
44	Magnetic Properties of Zn-Ferrites Obtained From Multilayer Film Deposited by Sputtering. IEEE Transactions on Magnetics, 2013, 49, 4559-4561.	2.1	4
45	Effect of thermal treatment in vacuum on Fe-doped SnO2 powders. Physica B: Condensed Matter, 2012, 407, 3214-3217.	2.7	3
46	Effect of Doping and Morphology on UV Emission in Lowâ€Đimensional ZnO:Na Structures. Physica Status Solidi (B): Basic Research, 2018, 255, 1800056.	1.5	3
47	Magnetic study of Fe65Ni20Nb6B9 nanocomposite alloys. Physica B: Condensed Matter, 2004, 354, 129-132.	2.7	2
48	Study on magnetite nanoparticles embedded in mesoporous silica obtained by a straightforward and biocompatible method. Journal of Physics and Chemistry of Solids, 2020, 145, 109535.	4.0	2
49	Magnetic studies of melt spun NdFeAlâ€“C alloys. Physica B: Condensed Matter, 2004, 354, 191-194.	2.7	1
50	MÃ¶ssbauer effect phase determination in iron oxideâ€“polyaniline nanocomposites. Hyperfine Interactions, 2007, 179, 81-86.	0.5	1
51	Study of magnetic state of Sn0.9Fe0.1O2 powders at low temperature. Journal of Magnetism and Magnetic Materials, 2013, 344, 188-192.	2.3	1
52	Hyperfine Field and Isomer Shift Evolution in Hydrogenated Ndâ€“Feâ€“B Alloy. Hyperfine Interactions, 2001, 134, 123-129.	0.5	0
53	MÃ¶ssbauer and vibrational DOS studies of diluted magnetic tin oxides and nano iron oxides. Hyperfine Interactions, 2014, 224, 25-33.	0.5	0