

# Claudia E RodrÃ-iguez Torres

## List of Publications by Year in descending order

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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	Observation of Room-Temperature Ferromagnetism Induced by High-Pressure Hydrogenation of Anatase TiO <sub>2</sub> . Journal of Physical Chemistry C, 2021, 125, 14366-14377.	3.1	8
2	Effect of nanostructured ferrites MFe <sub>2</sub> O <sub>4</sub> (M= Cu, Co, Mg, Zn) on the thermal decomposition of ammonium nitrate. Applications in Energy and Combustion Science, 2021, 6, 100026.	1.5	5
3	Ab-initio approach to the stability and the structural, electronic and magnetic properties of the (001) ZnFe <sub>2</sub> O <sub>4</sub> surface terminations. Applied Surface Science, 2020, 499, 143859.	6.1	10
4	Degradation of methylene blue dye under dark and visible light conditions in presence of hybrid composites of nanostructured MgFe <sub>2</sub> O <sub>4</sub> ferrites and oxygenated organic compounds. Journal of Environmental Chemical Engineering, 2020, 8, 104274.	6.7	29
5	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
6	Structural, Electronic, and Magnetic Properties and Hyperfine Interactions at the Fe Sites of the Spinel TiFe <sub>2</sub> O <sub>4</sub> . Ab Initio, XANES, and Mössbauer Study. Journal of Physical Chemistry C, 2019, 123, 21694-21703.	3.1	7
7	Room-Temperature Ferromagnetism Induced by High-Pressure Hydrogenation of ZnO. Journal of Physical Chemistry C, 2019, 123, 19851-19861.	3.1	11
8	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
9	Ab initio study of the role of defects on the magnetic response and the structural, electronic and hyperfine properties of ZnFe <sub>2</sub> O <sub>4</sub> . Journal of Alloys and Compounds, 2019, 775, 1117-1128.	5.5	28
10	Role of defects on the magnetic behaviour of the geometrically frustrated spinel ZnFe <sub>2</sub> O <sub>4</sub> . Journal of Alloys and Compounds, 2018, 752, 289-295.	5.5	20
11	Ab initio calculation of structural, electronic and magnetic properties and hyperfine parameters at the Fe sites of pristine ZnFe <sub>2</sub> O <sub>4</sub> . Journal of Alloys and Compounds, 2018, 741, 746-755.	5.5	26
12	Effect of Doping and Morphology on UV Emission in Low-Dimensional ZnO:Na Structures. Physica Status Solidi (B): Basic Research, 2018, 255, 1800056.	1.5	3
13	Producing ZnFe <sub>2</sub> O <sub>4</sub> thin films from ZnO/FeO multilayers. Applied Surface Science, 2017, 393, 256-261.	6.1	10
14	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
15	Experimental and ab initio study of the hyperfine parameters of ZnFe <sub>2</sub> O <sub>4</sub> with defects. Hyperfine Interactions, 2016, 237, 1.	0.5	15
16	Ab Initio Study of the Ferromagnetic Response, Local Structure, and Hyperfine Properties of Fe-Doped SnO <sub>2</sub> . Journal of Physical Chemistry C, 2015, 119, 5596-5603.	3.1	21
17	Advances in methods to obtain and characterise room temperature magnetic ZnO. Applied Physics Letters, 2015, 106, 082406.	3.3	37
18	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

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19	Mössbauer and vibrational DOS studies of diluted magnetic tin oxides and nano iron oxides. Hyperfine Interactions, 2014, 224, 25-33.	0.5	0
20	Oxygen-vacancy-induced local ferromagnetism as a driving mechanism in enhancing the magnetic response of ferrites. Physical Review B, 2014, 89, .	3.2	80
21	Study of the relation between oxygen vacancies and ferromagnetism in Fe-doped TiO <sub>2</sub> nano-powders. Journal of Applied Physics, 2014, 115, .	2.5	32
22	Study of magnetic state of Sn <sub>0.9</sub> Fe <sub>0.1</sub> O <sub>2</sub> powders at low temperature. Journal of Magnetism and Magnetic Materials, 2013, 344, 188-192.	2.3	1
23	Magnetic Properties of Zn-Ferrites Obtained From Multilayer Film Deposited by Sputtering. IEEE Transactions on Magnetics, 2013, 49, 4559-4561.	2.1	4
24	Effect of thermal treatment in vacuum on Fe-doped SnO <sub>2</sub> powders. Physica B: Condensed Matter, 2012, 407, 3214-3217.	2.7	3
25	Relationship between structural and magnetic properties in (Ti,Fe)O <sub>2</sub> powders obtained by mechanical milling. Physica B: Condensed Matter, 2012, 407, 3225-3228.	2.7	4
26	Calibration of the isomer shift of the 14.4 keV transition of <sup>57</sup> Fe. Hyperfine Interactions, 2011, 202, 117-121.	0.5	7
27	Evidence of defect-induced ferromagnetism in ZnFe <sub>2</sub> O <sub>4</sub> thin films. Physical Review B, 2011, 84, .	3.2	54
28	Low temperature magnetic ordering in Fe-doped TiO <sub>2</sub> samples. Hyperfine Interactions, 2010, 195, 155-159.	0.5	6
29	ZnO:Co diluted magnetic semiconductor or hybrid nanostructure for spintronics?. Journal of Materials Science, 2010, 45, 6174-6178.	3.7	14
30	The relationship between magnetic behaviour and local structure around Fe ions in Fe-doped TiO <sub>2</sub> rutile. Physica B: Condensed Matter, 2009, 404, 2838-2840.	2.7	10
31	Magnetic and structural study of Fe doped tin dioxide. Physica B: Condensed Matter, 2009, 404, 2834-2837.	2.7	19
32	Nb-containing hematites Fe <sub>2-x</sub> Nb <sub>x</sub> O <sub>3</sub> : The role of Nb <sup>5+</sup> on the reactivity in presence of the H <sub>2</sub> O <sub>2</sub> or ultraviolet light. Applied Catalysis A: General, 2009, 357, 79-84.	4.3	66
33	Extrinsic origin of ferromagnetism in single crystalline LaAlO <sub>3</sub> substrates and oxide films. Applied Physics Letters, 2008, 92, .	3.3	35
34	Ferromagnetism in doped TiO <sub>2</sub> thin films prepared by PLD. Journal of Physics: Conference Series, 2007, 59, 479-482.	0.4	6
35	Magnetic behavior of nanoclusters of Fe-doped SnO <sub>2</sub> . Physica B: Condensed Matter, 2007, 389, 176-179.	2.7	14
36	Mechanosynthesis of Fe-doped SnO <sub>2</sub> nanoparticles. Physica B: Condensed Matter, 2007, 398, 215-218.	2.7	24

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37	XAS study of the local environment of impurities in doped TiO <sub>2</sub> thin films. <i>Physica B: Condensed Matter</i> , 2007, 398, 219-222.	2.7	13
38	The role of the dopant in the magnetism of Fe-doped SnO <sub>2</sub> films. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e219-e222.	2.3	35
39	Mössbauer effect phase determination in iron oxide/polyaniline nanocomposites. <i>Hyperfine Interactions</i> , 2007, 179, 81-86.	0.5	1
40	Mössbauer study of Sn(Fe)O <sub>2</sub> prepared by mechano-synthesis. <i>Hyperfine Interactions</i> , 2007, 179, 45-50.	0.5	4
41	Magnetic and structural study of Cu-doped TiO <sub>2</sub> thin films. <i>Applied Surface Science</i> , 2007, 254, 365-367.	6.1	21
42	Influence of thermal treatments on phase formation and magnetic behaviour in metal transition doped TiO <sub>2</sub> . <i>Physica B: Condensed Matter</i> , 2007, 389, 103-106.	2.7	18
43	Study of Fe-doped rutile TiO <sub>2</sub> alloys obtained by mechanical alloying. <i>Physica B: Condensed Matter</i> , 2006, 384, 345-347.	2.7	16
44	Structural and magnetic characterization of Fe <sub>0.3</sub> Ti <sub>0.7</sub> O <sub>2</sub> films obtained by pulsed laser deposition. <i>Physica B: Condensed Matter</i> , 2006, 384, 341-344.	2.7	6
45	EXAFS determination of Hf localization in HfNdFeB alloys. <i>Physica B: Condensed Matter</i> , 2005, 362, 145-152.	2.7	4
46	Appearance of room-temperature ferromagnetism in Cu-doped TiO <sub>2</sub> films. <i>Physical Review B</i> , 2005, 72, .	3.2	219
47	Detailed magnetic dynamic behaviour of nanocomposite iron oxide aerogels. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 6519-6531.	1.8	20
48	Mössbauer study of mechanical alloyed Fe-doped TiO <sub>2</sub> compounds. <i>Physica B: Condensed Matter</i> , 2004, 354, 67-70.	2.7	22
49	Magnetic study of Fe <sub>65</sub> Ni <sub>20</sub> Nb <sub>6</sub> B <sub>9</sub> nanocomposite alloys. <i>Physica B: Condensed Matter</i> , 2004, 354, 129-132.	2.7	2
50	Crystallisation kinetics of B-rich mischmetal-FeB nanocomposite ribbons. <i>Physica B: Condensed Matter</i> , 2004, 354, 237-240.	2.7	7
51	Magnetic studies of melt spun NdFeAlC alloys. <i>Physica B: Condensed Matter</i> , 2004, 354, 191-194.	2.7	1
52	Hyperfine Field and Isomer Shift Evolution in Hydrogenated NdFeB Alloy. <i>Hyperfine Interactions</i> , 2001, 134, 123-129.	0.5	0
53	Decomposition of Fe <sub>2</sub> B by mechanical grinding. <i>Physical Review B</i> , 1995, 51, 12142-12148.	3.2	14