Marco A Morales

List of Publications by Year
in descending order

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93 papers	3,493 citations	218677 26 h-index	144013 57 g-index
93 all docs	93 docs citations	93 times ranked	5635 citing authors

#	Article	IF	Citations
1	(Bi13Co11)Co2O40â€“Co3O4 nanocomposites: Approach to different fuels in sol-gel combustion synthesis using the Box-Behnken design. Ceramics International, 2022, 48, 481-494.	4.8	9
2	Synthesis and characterization of NiFe-carbon fibers by solution blow spinning and application for the oxygen evolution reaction. Journal of Physics and Chemistry of Solids, 2022, 160, 110311.	4.0	8
3	Spinel ferrite MFe2O4 (MÂ=ÂNi, Co, or Cu) nanoparticles prepared by a proteic sol-gel route for oxygen evolution reaction. Advanced Powder Technology, 2022, 33, 103391.	4.1	17
4	Effects of morphology on the electrochemical performance of NiFe₂O₄nanoparticles with batteryâ€type behavior. International Journal of Applied Ceramic Technology, 2022, 19, 2016-2028.	2.1	3
5	Consolidation and mechanical properties of WC-Al2O3 composite prepared via high energy ball milling and spark plasma sintering. Ceramics International, 2022, 48, 19026-19035.	4.8	4
6	Fe0.5Co0.5-Co1.15Fe1.15O4/carbon composite nanofibers prepared by solution blow spinning: Structure, morphology, MÃ¶ssbauer spectroscopy, and application as catalysts for electrochemical water oxidation. International Journal of Hydrogen Energy, 2022, 47, 25266-25279.	7.1	6
7	In situ synthesis of highly stable FeCo alloy encapsulated in carbon from ethanol. Materials Today Communications, 2022, 32, 103900.	1.9	0
8	Textural and photocatalytic characteristics of iron-cobalt based nanocomposites supported on SBA-15: Synergistic effect between Fe2+ and Fe0 on photoactivity. Microporous and Mesoporous Materials, 2021, 310, 110582.	4.4	16
9	Al2O3-10Âwt% Fe composite prepared by high energy ball milling: Structure and magnetic properties. Ceramics International, 2021, 47, 984-991.	4.8	3
10	Nonwoven Niâ€“NiO/carbon fibers for electrochemical water oxidation. International Journal of Hydrogen Energy, 2021, 46, 3798-3810.	7.1	28
11	57Fe local environment and magnetic properties of chitosan coated CoFe(2â^')Sm O4 nanoparticles. Ceramics International, 2021, 47, 9169-9177.	4.8	1
12	Effect of high energy milling on microstructure and mechanical properties of Al2O3-10Âwt% Co composites consolidated by spark plasma sintering (SPS). Ceramics International, 2021, 47, 677-685.	4.8	9
13	(Bi13Co11)Co2O40â€“Co3O4 composites: Synthesis, structural and magnetic properties. Journal of Alloys and Compounds, 2021, 852, 156991.	5.5	6
14	(Bi13Co11)Co2O40â€“Co3O4 nanocomposites: Synthesis, characterization and application as substrate for microstrip patch antenna. Ceramics International, 2021, 47, 21530-21530.	4.8	8
15	Preferential adsorption of CO2 on cobalt ferrite sites and its role in oxidative dehydrogenation of ethylbenzene. Brazilian Journal of Chemical Engineering, 2021, 38, 495-510.	1.3	5
16	Evaluation of antiplasmodial activity and cytotoxicity assays of amino acids functionalized magnetite nanoparticles: Hyperthermia and flow cytometry applications. Materials Science and Engineering C, 2021, 125, 112097.	7.3	10
17	Evaluation of the spinodal decomposition mechanism in 22Crâ€“5Ni duplex stainless steel using low-field magnetic analysis. MRS Communications, 2021, 11, 470-475.	1.8	4
18	Impact of the SiC addition on the morphological, structural and mechanical properties of Cu-SiC composite powders prepared by high energy milling. Advanced Powder Technology, 2021, 32, 2950-2961.	4.1	22

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19	Hybrid hematite/calcium ferrite fibers by solution blow spinning: Microstructural, optical and magnetic characterization. Ceramics International, 2021, 47, 33363-33372.	4.8	7
20	Fe-doped calcium cobaltites as electrocatalysts for oxygen evolution reaction. Ceramics International, 2021, 47, 26109-26118.	4.8	6
21	Î±-Fe2O3 fibers: An efficient photocatalyst for dye degradation under visible light. Journal of Alloys and Compounds, 2021, 882, 160683.	5.5	28
22	Evaluation of mechanical ductile damage in sheet metal based on low-field magnetic analysis. Journal of Magnetism and Magnetic Materials, 2021, 539, 168403.	2.3	4
23	Effect of milling time in characteristics of the powder Cu-5wt.%Graphite. Advanced Powder Technology, 2021, , .	4.1	4
24	Exchange bias and superspin glass behavior in nanostructured <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si50.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">CoFe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi linebreak="badbreak">-</mml:mi><mml:mtext>Ag</mml:mtext></mml:mrow></mml:math> composites. Journal of Magnetism and Magnetic Materials, 2020, 497, 165940.	2.3	10
25	Î³-Fe2O3 nanoparticles embedded in nanohydroxyapatite matrix for magnetic hyperthermia and in vitro osteoblast cell studies. Ceramics International, 2020, 46, 10658-10666.	4.8	20
26	Role of oxygen vacancies on the energy storage performance of battery-type NiO electrodes. Ceramics International, 2020, 46, 9233-9239.	4.8	26
27	Multifunctional solution blow spun NiFeâ€“NiFe2O4 composite nanofibers: Structure, magnetic properties and OER activity. Journal of Physics and Chemistry of Solids, 2020, 139, 109325.	4.0	34
28	Synthesis of the Feâ€“Co alloy from hybrid spheres using carboxymethylcellulose as template and its application in catalysis. Materials Chemistry and Physics, 2020, 242, 122550.	4.0	9
29	Positive exchange bias effect in LaCr0.5Fe0.5O3 perovskite. Journal of Physics and Chemistry of Solids, 2020, 141, 109334.	4.0	9
30	Green synthesis of CoWO4 powders using agar-agar from red seaweed (Rhodophyta): Structure, magnetic properties and battery-like behavior. Materials Chemistry and Physics, 2020, 242, 122544.	4.0	24
31	Proteic sol-gel synthesis, structure and battery-type behavior of Fe-based spinels (MFe2O4, MÂ=ÂCu, Co,) Tj ETQq1 1 0.784314 rgBT /O	4.1	37
32	Cashew gum as a sol-gel precursor for green synthesis of nanostructured Ni and Co ferrites. International Journal of Biological Macromolecules, 2020, 164, 4245-4251.	7.5	13
33	Field-driven spin reorientation in SmMnO3 polycrystalline powders. Journal of Alloys and Compounds, 2020, 845, 156327.	5.5	6
34	Improved Removal Capacity and Equilibrium Time of Maghemite Nanoparticles Growth in Zeolite Type 5A for Pb(II) Adsorption. Nanomaterials, 2020, 10, 1668.	4.1	28
35	Low-field magnetic analysis for sigma phase embrittlement monitoring in thermally aged 22Cr duplex stainless steel. Journal of Magnetism and Magnetic Materials, 2020, 513, 167072.	2.3	8
36	Ni/NiO-carbon composite fibers prepared by solution blow spinning: Structure and magnetic properties. Ceramics International, 2020, 46, 18933-18939.	4.8	5

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37	Synthesis of Fe2SiO4-Fe7Co3 Nanocomposite Dispersed in the Mesoporous SBA-15: Application as Magnetically Separable Adsorbent. Molecules, 2020, 25, 1016.	3.8	9
38	Effect of the high energy milling on the microstructure of Cu-20%WC composite powders prepared with recycled WC. International Journal of Refractory Metals and Hard Materials, 2020, 90, 105223.	3.8	9
39	Structure, magnetic behavior and OER activity of CoFe2O4 powders obtained using agar-agar from red seaweed (Rhodophyta). Materials Chemistry and Physics, 2019, 237, 121847.	4.0	42
40	Microwave-assisted hydrothermal synthesis and magnetic properties of nanostructured cobalt ferrite. Journal of Alloys and Compounds, 2019, 799, 36-42.	5.5	20
41	Oxidative dehydrogenation of ethylbenzene to styrene over the CoFe2O4â€“MCM-41 catalyst: preferential adsorption on the O2â^'Fe3+O2â^' sites located at octahedral positions. Catalysis Science and Technology, 2019, 9, 2469-2484.	4.1	25
42	Nanoparticles of Ni1â^'Cu alloys for enhanced heating in magnetic hyperthermia. Journal of Alloys and Compounds, 2019, 787, 935-943.	5.5	19
43	Structural and magnetic properties of Fe2TiO5 nanopowders prepared by ball-milling and post annealing. Materials Letters, 2019, 236, 526-529.	2.6	8
44	Exchange bias and spin glass in La2FeMnO6 nanoparticles. Journal of Magnetism and Magnetic Materials, 2019, 471, 177-184.	2.3	21
45	Surface effect in PVP coated Sm doped magnetite nanoparticles prepared by the polyol method. Ceramics International, 2018, 44, 13050-13054.	4.8	5
46	Proteic sol-gel synthesis, structure and magnetic properties of Ni/NiO core-shell powders. Ceramics International, 2018, 44, 6152-6156.	4.8	35
47	Adsorption of arsenite and arsenate on binary and ternary magnetic nanocomposites with high iron oxide content. Applied Surface Science, 2018, 454, 87-100.	6.1	48
48	Synthesis, characterization and applications of maghemite beads functionalized with rabbit antibodies. Nanotechnology, 2018, 29, 365701.	2.6	8
49	Wasp-waisted behavior in magnetic hysteresis curves of CoFe₂O₄ nanopowder at a low temperature: experimental evidence and theoretical approach. RSC Advances, 2017, 7, 22187-22196.	3.6	84
50	Magnetic studies of nickel hydride nanoparticles embedded in chitosan matrix. Journal of Magnetism and Magnetic Materials, 2017, 441, 702-709.	2.3	4
51	Magnetic, structural and surface properties of functionalized maghemite nanoparticles for copper and lead adsorption. RSC Advances, 2017, 7, 28763-28779.	3.6	49
52	Design of Magnetic Polymeric Particles as a Stimulus-Responsive System for Gastric Antimicrobial Therapy. AAPS PharmSciTech, 2017, 18, 2026-2036.	3.3	15
53	Influence of reaction temperature, proportions of iron, cobalt and KOH on the CoFe2O4 synthesis by hydrothermal method assisted by microwave heating. Journal of Materials Science: Materials in Electronics, 2017, 28, 14402-14416.	2.2	1
54	PluronicÂ® coated sterically stabilized magnetite nanoparticles for hyperthermia applications. Journal of Magnetism and Magnetic Materials, 2016, 416, 434-440.	2.3	21

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55	Vacancy ordered Î³-Fe2O3 nanoparticles functionalized with nanohydroxyapatite: XRD, FTIR, TEM, XPS and MÃ¶ssbauer studies. Applied Surface Science, 2016, 389, 721-734.	6.1	112
56	Suppression of exchange bias effect in maghemite nanoparticles functionalized with H2Y. Journal of Magnetism and Magnetic Materials, 2016, 420, 324-335.	2.3	11
57	Synthesis of stoichiometric Ca2Fe2O5 nanoparticles by high-energy ball milling and thermal annealing. Physica B: Condensed Matter, 2016, 488, 43-48.	2.7	26
58	Evaluation of (BH)max and magnetic anisotropy of cobalt ferrite nanoparticles synthesized in gelatin. Ceramics International, 2015, 41, 11804-11809.	4.8	39
59	The effect of Sr2+ on the structure and magnetic properties of nanocrystalline cobalt ferrite. Materials Letters, 2015, 145, 56-58.	2.6	34
60	Mechano-synthesis, structural and magnetic characterization, and heat release of Î±-Fe nanoparticles embedded in a wÃ¼stite matrix. Journal of Magnetism and Magnetic Materials, 2015, 391, 83-88.	2.3	8
61	Monodisperse sodium oleate coated magnetite high susceptibility nanoparticles for hyperthermia applications. Journal of Magnetism and Magnetic Materials, 2014, 364, 72-79.	2.3	92
62	Structural and magnetic investigation of styreneâ€“divinylbenzene encapsulated iron oxide nanoparticles. Materials Letters, 2014, 130, 135-138.	2.6	2
63	Synthesis of magnetite nanoparticles by high energy ball milling. Applied Surface Science, 2013, 275, 84-87.	6.1	112
64	Novel one-pot preparation of CoFe2O4â€“Ag nanocrystalline powders. Materials Letters, 2013, 113, 67-70.	2.6	8
65	Size selected synthesis of magnetite nanoparticles in chitosan matrix. Applied Surface Science, 2013, 275, 71-74.	6.1	27
66	Maghemite Interparticle Interactions in Î³â€“Fe2O3/Ag nanocomposites. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2467-2470.	1.8	1
67	Critical dimension for magnetic exchange-spring coupled core/shell <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0010.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>CoFe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub><mml:mo>/</mml:mo> Journal of Magnetism and Magnetic Materials, 2013, 326, 81-84.	2.3	30
68	Synthesis, characterization and magnetic properties of polymerâ€“Fe3O4 nanocomposite. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 100, 101-103.	3.9	13
69	Photoacoustic investigation of maghemite-based nanocomposite. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 100, 72-74.	3.9	3
70	Photoacoustic spectroscopy study of Blepharocalyx salicifolius (Kunt) O. Berg. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 100, 75-77.	3.9	0
71	Synthesis and characterization of magnetic mesoporous particles. Journal of Colloid and Interface Science, 2010, 342, 269-277.	9.4	19
72	Size selected synthesis of CoFe2O4 nanoparticles prepared in a chitosan matrix. Journal of Applied Physics, 2010, 107, .	2.5	21

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73	Selective hydrogenation of dimethyl adipate on titania-supported RuSn catalysts. Applied Catalysis A: General, 2009, 353, 101-106.	4.3	23
74	In situ synthesis and magnetic studies of iron oxide nanoparticles in calcium-alginate matrix for biomedical applications. Materials Science and Engineering C, 2008, 28, 253-257.	7.3	83
75	Biodistribution, Clearance, and Biocompatibility of Iron Oxide Magnetic Nanoparticles in Rats. Molecular Pharmaceutics, 2008, 5, 316-327.	4.6	605
76	Ca alginate as scaffold for iron oxide nanoparticles synthesis. Brazilian Journal of Chemical Engineering, 2008, 25, 759-764.	1.3	24
77	Surface anisotropy and magnetic freezing ofMnOnanoparticles. Physical Review B, 2007, 75, .	3.2	53
78	Ru-Sn catalysts for selective hydrogenation of crotonaldehyde: Effect of the Sn/(Ru+Sn) ratio. Applied Catalysis A: General, 2007, 318, 70-78.	4.3	41
79	Role of catalyst preparation on determining selective sites for hydrogenation of dimethyl adipate over RuSn/Al2O3. Journal of Molecular Catalysis A, 2006, 253, 62-69.	4.8	27
80	Iron Oxide Nanoparticles for Sustained Delivery of Anticancer Agents. Molecular Pharmaceutics, 2005, 2, 194-205.	4.6	814
81	Spin glass or random anisotropy?: The origin of magnetically glassy behavior in nanostructured GdAl2. Journal of Applied Physics, 2005, 97, 10J505.	2.5	19
82	Magnetic studies of iron oxide nanoparticles coated with oleic acid and PluronicÂ® block copolymer. Journal of Applied Physics, 2005, 97, 10Q905.	2.5	64
83	Disorder-induced depression of the Curie temperature in mechanically milledGdAl2. Physical Review B, 2004, 70, .	3.2	21
84	Magnetic studies of iron(III) nanoparticles in alginate polymer for drug delivery applications. Materials Science and Engineering C, 2004, 24, 625-629.	7.3	105
85	Structural and magnetic properties of Ni81Fe19/Zr multilayers. Journal of Magnetism and Magnetic Materials, 2004, 277, 144-152.	2.3	10
86	Magnetic properties of Ni81Fe19/W90Ti10 multilayers. Journal of Magnetism and Magnetic Materials, 2003, 256, 93-99.	2.3	10
87	Magnetic studies in Fe/Zn multilayers. Journal of Magnetism and Magnetic Materials, 2003, 256, 100-105.	2.3	5
88	Fe impurities in Cd and Zn hosts:â€,â€,Theory and experiment. Physical Review B, 2003, 68, .	3.2	2
89	57Fediluted in a Ag film prepared by vapor quenching: Nanostructure formation and magnetic behavior. Physical Review B, 2002, 66, .	3.2	16
90	Fe2+/Fe3+substitution in hydroxyapatite: Theory and experiment. Physical Review B, 2002, 66, .	3.2	104

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91	Iron Species Present in Fe/ZSM-5 Catalysts â€“ Influence of the Preparation Method. Hyperfine Interactions, 2001, 134, 161-166.	0.5	21
92	Structural Behavior of Ptâ€“Sn Supported on MgO. Hyperfine Interactions, 2001, 134, 81-92.	0.5	8
93	Pbâ€“0.5 at. % Fe and Ybâ€“0.5 at. % Fe vapor-quenched films:â€ƒLocation and magnetization of the Fe impurities. Physical Review B, 1999, 60, 1111-1116.	3.2	11