

Marco A Morales

List of Publications by Year in descending order

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93
papers

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citations

218677

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docs citations

93
times ranked

5635
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron Oxide Nanoparticles for Sustained Delivery of Anticancer Agents. <i>Molecular Pharmaceutics</i> , 2005, 2, 194-205.	4.6	814
2	Biodistribution, Clearance, and Biocompatibility of Iron Oxide Magnetic Nanoparticles in Rats. <i>Molecular Pharmaceutics</i> , 2008, 5, 316-327.	4.6	605
3	Synthesis of magnetite nanoparticles by high energy ball milling. <i>Applied Surface Science</i> , 2013, 275, 84-87.	6.1	112
4	Vacancy ordered $\hat{1}^3$ -Fe ₂ O ₃ nanoparticles functionalized with nanohydroxyapatite: XRD, FTIR, TEM, XPS and MÃssbauer studies. <i>Applied Surface Science</i> , 2016, 389, 721-734.	6.1	112
5	Magnetic studies of iron(III) nanoparticles in alginate polymer for drug delivery applications. <i>Materials Science and Engineering C</i> , 2004, 24, 625-629.	7.3	105
6	Fe ₂₊ /Fe ₃₊ -substitution in hydroxyapatite: Theory and experiment. <i>Physical Review B</i> , 2002, 66, .	3.2	104
7	Monodisperse sodium oleate coated magnetite high susceptibility nanoparticles for hyperthermia applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 364, 72-79.	2.3	92
8	Wasp-waisted behavior in magnetic hysteresis curves of CoFe ₂ O ₄ nanopowder at a low temperature: experimental evidence and theoretical approach. <i>RSC Advances</i> , 2017, 7, 22187-22196.	3.6	84
9	In situ synthesis and magnetic studies of iron oxide nanoparticles in calcium-alginate matrix for biomedical applications. <i>Materials Science and Engineering C</i> , 2008, 28, 253-257.	7.3	83
10	Magnetic studies of iron oxide nanoparticles coated with oleic acid and Pluronic® block copolymer. <i>Journal of Applied Physics</i> , 2005, 97, 10Q905.	2.5	64
11	Surface anisotropy and magnetic freezing of MnO nanoparticles. <i>Physical Review B</i> , 2007, 75, .	3.2	53
12	Magnetic, structural and surface properties of functionalized maghemite nanoparticles for copper and lead adsorption. <i>RSC Advances</i> , 2017, 7, 28763-28779.	3.6	49
13	Adsorption of arsenite and arsenate on binary and ternary magnetic nanocomposites with high iron oxide content. <i>Applied Surface Science</i> , 2018, 454, 87-100.	6.1	48
14	Structure, magnetic behavior and OER activity of CoFe ₂ O ₄ powders obtained using agar-agar from red seaweed (Rhodophyta). <i>Materials Chemistry and Physics</i> , 2019, 237, 121847.	4.0	42
15	Ru-Sn catalysts for selective hydrogenation of crotonaldehyde: Effect of the Sn/(Ru+Sn) ratio. <i>Applied Catalysis A: General</i> , 2007, 318, 70-78.	4.3	41
16	Critical dimension for magnetic exchange-spring coupled core/shell $\langle \text{CoFe}_2\text{O}_4 \rangle$ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 326, 81-84.	2.5	39
17	Evaluation of (BH) _{max} and magnetic anisotropy of cobalt ferrite nanoparticles synthesized in gelatin. <i>Ceramics International</i> , 2015, 41, 11804-11809.	4.8	39
18	Proteic sol-gel synthesis, structure and battery-type behavior of Fe-based spinels (MFe ₂ O ₄ , M = Cu, Co). <i>Tj ETQq0,0,0 rgBT /Q</i>	4.1	37

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19	Proteic sol-gel synthesis, structure and magnetic properties of Ni/NiO core-shell powders. <i>Ceramics International</i> , 2018, 44, 6152-6156.	4.8	35
20	The effect of Sr ²⁺ on the structure and magnetic properties of nanocrystalline cobalt ferrite. <i>Materials Letters</i> , 2015, 145, 56-58.	2.6	34
21	Multifunctional solution blow spun NiFe@NiFe ₂ O ₄ composite nanofibers: Structure, magnetic properties and OER activity. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 139, 109325.	4.0	34
22	Improved Removal Capacity and Equilibrium Time of Maghemite Nanoparticles Growth in Zeolite Type 5A for Pb(II) Adsorption. <i>Nanomaterials</i> , 2020, 10, 1668.	4.1	28
23	Nonwoven Ni@NiO/carbon fibers for electrochemical water oxidation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3798-3810.	7.1	28
24	±-Fe ₂ O ₃ fibers: An efficient photocatalyst for dye degradation under visible light. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160683.	5.5	28
25	Role of catalyst preparation on determining selective sites for hydrogenation of dimethyl adipate over RuSn/Al ₂ O ₃ . <i>Journal of Molecular Catalysis A</i> , 2006, 253, 62-69.	4.8	27
26	Size selected synthesis of magnetite nanoparticles in chitosan matrix. <i>Applied Surface Science</i> , 2013, 275, 71-74.	6.1	27
27	Synthesis of stoichiometric Ca ₂ Fe ₂ O ₅ nanoparticles by high-energy ball milling and thermal annealing. <i>Physica B: Condensed Matter</i> , 2016, 488, 43-48.	2.7	26
28	Role of oxygen vacancies on the energy storage performance of battery-type NiO electrodes. <i>Ceramics International</i> , 2020, 46, 9233-9239.	4.8	26
29	Oxidative dehydrogenation of ethylbenzene to styrene over the CoFe ₂ O ₄ @MCM-41 catalyst: preferential adsorption on the O ₂ ~Fe ₃ +O ₂ ~ sites located at octahedral positions. <i>Catalysis Science and Technology</i> , 2019, 9, 2469-2484.	4.1	25
30	Ca alginate as scaffold for iron oxide nanoparticles synthesis. <i>Brazilian Journal of Chemical Engineering</i> , 2008, 25, 759-764.	1.3	24
31	Green synthesis of CoWO ₄ powders using agar-agar from red seaweed (Rhodophyta): Structure, magnetic properties and battery-like behavior. <i>Materials Chemistry and Physics</i> , 2020, 242, 122544.	4.0	24
32	Selective hydrogenation of dimethyl adipate on titania-supported RuSn catalysts. <i>Applied Catalysis A: General</i> , 2009, 353, 101-106.	4.3	23
33	Impact of the SiC addition on the morphological, structural and mechanical properties of Cu-SiC composite powders prepared by high energy milling. <i>Advanced Powder Technology</i> , 2021, 32, 2950-2961.	4.1	22
34	Iron Species Present in Fe/ZSM-5 Catalysts – Influence of the Preparation Method. <i>Hyperfine Interactions</i> , 2001, 134, 161-166.	0.5	21
35	Disorder-induced depression of the Curie temperature in mechanically milled GdAl ₂ . <i>Physical Review B</i> , 2004, 70, .	3.2	21
36	Size selected synthesis of CoFe ₂ O ₄ nanoparticles prepared in a chitosan matrix. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	21

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37	Pluronic® coated sterically stabilized magnetite nanoparticles for hyperthermia applications. Journal of Magnetism and Magnetic Materials, 2016, 416, 434-440.	2.3	21
38	Exchange bias and spin glass in La ₂ FeMnO ₆ nanoparticles. Journal of Magnetism and Magnetic Materials, 2019, 471, 177-184.	2.3	21
39	Microwave-assisted hydrothermal synthesis and magnetic properties of nanostructured cobalt ferrite. Journal of Alloys and Compounds, 2019, 799, 36-42.	5.5	20
40	⁵⁷ Fe-Fe ₂ O ₃ nanoparticles embedded in nanohydroxyapatite matrix for magnetic hyperthermia and in vitro osteoblast cell studies. Ceramics International, 2020, 46, 10658-10666.	4.8	20
41	Spin glass or random anisotropy?: The origin of magnetically glassy behavior in nanostructured GdAl ₂ . Journal of Applied Physics, 2005, 97, 10J505.	2.5	19
42	Synthesis and characterization of magnetic mesoporous particles. Journal of Colloid and Interface Science, 2010, 342, 269-277.	9.4	19
43	Nanoparticles of Ni-Cu alloys for enhanced heating in magnetic hyperthermia. Journal of Alloys and Compounds, 2019, 787, 935-943.	5.5	19
44	Spinel ferrite MFe ₂ O ₄ (M = Ni, Co, or Cu) nanoparticles prepared by a proteic sol-gel route for oxygen evolution reaction. Advanced Powder Technology, 2022, 33, 103391.	4.1	17
45	⁵⁷ Fe diluted in a Ag film prepared by vapor quenching: Nanostructure formation and magnetic behavior. Physical Review B, 2002, 66, .	3.2	16
46	Textural and photocatalytic characteristics of iron-cobalt based nanocomposites supported on SBA-15: Synergistic effect between Fe ²⁺ and FeO on photoactivity. Microporous and Mesoporous Materials, 2021, 310, 110582.	4.4	16
47	Design of Magnetic Polymeric Particles as a Stimulus-Responsive System for Gastric Antimicrobial Therapy. AAPS PharmSciTech, 2017, 18, 2026-2036.	3.3	15
48	Synthesis, characterization and magnetic properties of polymer-Fe ₃ O ₄ nanocomposite. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 100, 101-103.	3.9	13
49	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
50	Pb ^{0.5} at. % Fe and Yb ^{0.5} at. % Fe vapor-quenched films: Location and magnetization of the Fe impurities. Physical Review B, 1999, 60, 1111-1116.	3.2	11
51	Suppression of exchange bias effect in maghemite nanoparticles functionalized with H ₂ Y. Journal of Magnetism and Magnetic Materials, 2016, 420, 324-335.	2.3	11
52	Magnetic properties of Ni ₈₁ Fe ₁₉ /W ₉₀ Ti ₁₀ multilayers. Journal of Magnetism and Magnetic Materials, 2003, 256, 93-99.	2.3	10
53	Structural and magnetic properties of Ni ₈₁ Fe ₁₉ /Zr multilayers. Journal of Magnetism and Magnetic Materials, 2004, 277, 144-152.	2.3	10
54	Exchange bias and superspin glass behavior in nanostructured CoFe_2Ag composites. Journal of Magnetism and Magnetic Materials, 2020, 497, 165940.	2.3	10

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55	Evaluation of antiplasmodial activity and cytotoxicity assays of amino acids functionalized magnetite nanoparticles: Hyperthermia and flow cytometry applications. <i>Materials Science and Engineering C</i> , 2021, 125, 112097.	7.3	10
56	Synthesis of the Fe-Co alloy from hybrid spheres using carboxymethylcellulose as template and its application in catalysis. <i>Materials Chemistry and Physics</i> , 2020, 242, 122550.	4.0	9
57	Positive exchange bias effect in LaCr _{0.5} Fe _{0.5} O ₃ perovskite. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 141, 109334.	4.0	9
58	Synthesis of Fe ₂ SiO ₄ -Fe ₇ Co ₃ Nanocomposite Dispersed in the Mesoporous SBA-15: Application as Magnetically Separable Adsorbent. <i>Molecules</i> , 2020, 25, 1016.	3.8	9
59	Effect of the high energy milling on the microstructure of Cu-20%WC composite powders prepared with recycled WC. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 90, 105223.	3.8	9
60	Effect of high energy milling on microstructure and mechanical properties of Al ₂ O ₃ -10wt% Co composites consolidated by spark plasma sintering (SPS). <i>Ceramics International</i> , 2021, 47, 677-685.	4.8	9
61	(Bi ₁₃ Co ₁₁)Co ₂ O ₄ -Co ₃ O ₄ nanocomposites: Approach to different fuels in sol-gel combustion synthesis using the Box-Behnken design. <i>Ceramics International</i> , 2022, 48, 481-494.	4.8	9
62	Structural Behavior of Pt-Sn Supported on MgO. <i>Hyperfine Interactions</i> , 2001, 134, 81-92.	0.5	8
63	Novel one-pot preparation of CoFe ₂ O ₄ -Ag nanocrystalline powders. <i>Materials Letters</i> , 2013, 113, 67-70.	2.6	8
64	Mechano-synthesis, structural and magnetic characterization, and heat release of γ -Fe nanoparticles embedded in a wüstite matrix. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 391, 83-88.	2.3	8
65	Synthesis, characterization and applications of maghemite beads functionalized with rabbit antibodies. <i>Nanotechnology</i> , 2018, 29, 365701.	2.6	8
66	Structural and magnetic properties of Fe ₂ TiO ₅ nanopowders prepared by ball-milling and post annealing. <i>Materials Letters</i> , 2019, 236, 526-529.	2.6	8
67	Low-field magnetic analysis for sigma phase embrittlement monitoring in thermally aged 22Cr duplex stainless steel. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 513, 167072.	2.3	8
68	(Bi ₁₃ Co ₁₁)Co ₂ O ₄ -Co ₃ O ₄ nanocomposites: Synthesis, characterization and application as substrate for microstrip patch antenna. <i>Ceramics International</i> , 2021, 47, 21530-21530.	4.8	8
69	Synthesis and characterization of NiFe-carbon fibers by solution blow spinning and application for the oxygen evolution reaction. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 160, 110311.	4.0	8
70	Hybrid hematite/calcium ferrite fibers by solution blow spinning: Microstructural, optical and magnetic characterization. <i>Ceramics International</i> , 2021, 47, 33363-33372.	4.8	7
71	Field-driven spin reorientation in SmMnO ₃ polycrystalline powders. <i>Journal of Alloys and Compounds</i> , 2020, 845, 156327.	5.5	6
72	(Bi ₁₃ Co ₁₁)Co ₂ O ₄ -Co ₃ O ₄ composites: Synthesis, structural and magnetic properties. <i>Journal of Alloys and Compounds</i> , 2021, 852, 156991.	5.5	6

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73	Fe-doped calcium cobaltites as electrocatalysts for oxygen evolution reaction. <i>Ceramics International</i> , 2021, 47, 26109-26118.	4.8	6
74	Fe _{0.5} Co _{0.5} -Co _{1.15} Fe _{1.15} O ₄ /carbon composite nanofibers prepared by solution blow spinning: Structure, morphology, Mössbauer spectroscopy, and application as catalysts for electrochemical water oxidation. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 25266-25279.	7.1	6
75	Magnetic studies in Fe/Zn multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 256, 100-105.	2.3	5
76	Surface effect in PVP coated Sm doped magnetite nanoparticles prepared by the polyol method. <i>Ceramics International</i> , 2018, 44, 13050-13054.	4.8	5
77	Ni/NiO-carbon composite fibers prepared by solution blow spinning: Structure and magnetic properties. <i>Ceramics International</i> , 2020, 46, 18933-18939.	4.8	5
78	Preferential adsorption of CO ₂ on cobalt ferrite sites and its role in oxidative dehydrogenation of ethylbenzene. <i>Brazilian Journal of Chemical Engineering</i> , 2021, 38, 495-510.	1.3	5
79	Magnetic studies of nickel hydride nanoparticles embedded in chitosan matrix. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 441, 702-709.	2.3	4
80	Evaluation of the spinodal decomposition mechanism in 22Crâ€“5Ni duplex stainless steel using low-field magnetic analysis. <i>MRS Communications</i> , 2021, 11, 470-475.	1.8	4
81	Evaluation of mechanical ductile damage in sheet metal based on low-field magnetic analysis. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 539, 168403.	2.3	4
82	Effect of milling time in characteristics of the powder Cu-5wt.%Graphite. <i>Advanced Powder Technology</i> , 2021, , .	4.1	4
83	Consolidation and mechanical properties of WC-Al ₂ O ₃ composite prepared via high energy ball milling and spark plasma sintering. <i>Ceramics International</i> , 2022, 48, 19026-19035.	4.8	4
84	Photoacoustic investigation of maghemite-based nanocomposite. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 100, 72-74.	3.9	3
85	Al ₂ O ₃ -10wt% Fe composite prepared by high energy ball milling: Structure and magnetic properties. <i>Ceramics International</i> , 2021, 47, 984-991.	4.8	3
86	Effects of morphology on the electrochemical performance of NiFe ₂ O ₄ nanoparticles with battery-type behavior. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 2016-2028.	2.1	3
87	Fe impurities in Cd and Zn hosts: Theory and experiment. <i>Physical Review B</i> , 2003, 68, .	3.2	2
88	Structural and magnetic investigation of styrene-divinylbenzene encapsulated iron oxide nanoparticles. <i>Materials Letters</i> , 2014, 130, 135-138.	2.6	2
89	Maghemite Interparticle Interactions in Fe ₃ O ₄ /Ag nanocomposites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 2467-2470.	1.8	1
90	Influence of reaction temperature, proportions of iron, cobalt and KOH on the CoFe ₂ O ₄ synthesis by hydrothermal method assisted by microwave heating. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 14402-14416.	2.2	1

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91	<p>57Fe local environment and magnetic properties of chitosan coated CoFe(2âˆ)Sm O4 nanoparticles. <i>Ceramics International</i>, 2021, 47, 9169-9177.</p>	4.8	1
92	<p>Photoacoustic spectroscopy study of <i>Blepharocalyx salicifolius</i> (Kunt) O. Berg. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i>, 2013, 100, 75-77.</p>	3.9	0
93	<p>In situ synthesis of highly stable FeCo alloy encapsulated in carbon from ethanol. <i>Materials Today Communications</i>, 2022, 32, 103900.</p>	1.9	0