Marcela B FernÃ¡ndez Van Raap

List of Publications by Year
in descending order

47 papers	1,324 citations	331670 21 h-index	345221 36 g-index
49 all docs	49 docs citations	49 times ranked	1958 citing authors

#	Article	IF	Citations
1	Stability and Relaxation Mechanisms of Citric Acid Coated Magnetite Nanoparticles for Magnetic Hyperthermia. Journal of Physical Chemistry C, 2013, 117, 5436-5445.	3.1	161
2	Impact of magnetite iron oxide nanoparticles on wheat (Triticum aestivum L.) development: Evaluation of oxidative damage. Environmental and Experimental Botany, 2016, 131, 77-88.	4.2	144
3	Effect of Nanoclustering and Dipolar Interactions in Heat Generation for Magnetic Hyperthermia. Langmuir, 2016, 32, 1201-1213.	3.5	126
4	Hybrid nanomaterials based on gum Arabic and magnetite for hyperthermia treatments. Materials Science and Engineering C, 2017, 74, 443-450.	7.3	55
5	4D Multimodal Nanomedicines Made of Nonequilibrium Auâ€“Fe Alloy Nanoparticles. ACS Nano, 2020, 14, 12840-12853.	14.6	53
6	Structural and magnetic study of zinc-doped magnetite nanoparticles and ferrofluids for hyperthermia applications. Journal Physics D: Applied Physics, 2013, 46, 125006.	2.8	51
7	Effects of Nanostructure and Dipolar Interactions on Magnetohyperthermia in Iron Oxide Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 12796-12809.	3.1	49
8	Synthesis of Ni Nanoparticles by Femtosecond Laser Ablation in Liquids: Structure and Sizing. Journal of Physical Chemistry C, 2015, 119, 13184-13193.	3.1	48
9	Analysis of the structure, configuration, and sizing of Cu and Cu oxide nanoparticles generated by fs laser ablation of solid target in liquids. Journal of Applied Physics, 2013, 113, .	2.5	46
10	Dipolar interaction and demagnetizing effects in magnetic nanoparticle dispersions: Introducing the mean-field interacting superparamagnet model. Physical Review B, 2017, 95, .	3.2	38
11	Fluorescent and magnetic stellate mesoporous silica for bimodal imaging and magnetic hyperthermia. Applied Materials Today, 2019, 16, 301-314.	4.3	36
12	Nanoclusters of crystallographically aligned nanoparticles for magnetic thermotherapy: aqueous ferrofluid, agarose phantoms and ex vivo melanoma tumour assessment. Nanoscale, 2018, 10, 21262-21274.	5.6	33
13	Magnetically Assembled SERS Substrates Composed of Ironâ€“Silver Nanoparticles Obtained by Laser Ablation in Liquid. ChemPhysChem, 2017, 18, 1026-1034.	2.1	31
14	Optical and Magnetic Properties of Fe Nanoparticles Fabricated by Femtosecond Laser Ablation in Organic and Inorganic Solvents. ChemPhysChem, 2017, 18, 1192-1209.	2.1	30
15	Facile synthesis by laser ablation in liquid of nonequilibrium cobalt-silver nanoparticles with magnetic and plasmonic properties. Journal of Colloid and Interface Science, 2021, 585, 267-275.	9.4	29
16	Influence of size-corrected bound-electron contribution on nanometric silver dielectric function. Sizing through optical extinction spectroscopy. Journal Physics D: Applied Physics, 2013, 46, 435301.	2.8	27
17	Anisotropic Phase Separation through the Metal-Insulator Transition in Amorphous Alloys. Physical Review Letters, 1994, 73, 1118-1121.	7.8	25
18	Ag nanoparticles formed by femtosecond pulse laser ablation in water: self-assembled fractal structures. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	25

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19	Sciatic nerve regeneration after traumatic injury using magnetic targeted adipose-derived mesenchymal stem cells. Acta Biomaterialia, 2021, 130, 234-247.	8.3	24
20	Biocompatible Ironâ€“Boron Nanoparticles Designed for Neutron Capture Therapy Guided by Magnetic Resonance Imaging. Advanced Healthcare Materials, 2021, 10, e2001632.	7.6	24
21	Self organization in oleic acid-coated CoFe2O4 colloids: a SAXS study. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	23
22	Quasi-static magnetic measurements to predict specific absorption rates in magnetic fluid hyperthermia experiments. Journal of Applied Physics, 2014, 115, .	2.5	22
23	Detailed magnetic dynamic behaviour of nanocomposite iron oxide aerogels. Journal of Physics Condensed Matter, 2005, 17, 6519-6531.	1.8	20
24	Stress-Induced Gene Expression Sensing Intracellular Heating Triggered by Magnetic Hyperthermia. Journal of Physical Chemistry C, 2016, 120, 7339-7348.	3.1	19
25	A simple and â€œgreenâ€•technique to synthesize long-term stability colloidal Ag nanoparticles: Fs laser ablation in a biocompatible aqueous medium. Materials Characterization, 2018, 140, 320-332.	4.4	19
26	Structural composition dependence of amorphous silicon-iron prepared by ion implantation and by coevaporation: A MÃ¶ssbauer study. Physical Review B, 1991, 44, 4290-4295.	3.2	18
27	MÃ¶ssbauer study of the Fe-Si phases produced by Fe implantation followed by ion-beam-induced epitaxial crystallization. Physical Review B, 1996, 54, 12787-12792.	3.2	16
28	Size dependent Cu dielectric function for plasmon spectroscopy: Characterization of colloidal suspension generated by fs laser ablation. Journal of Applied Physics, 2012, 112, .	2.5	16
29	Kinetically Stable Nonequilibrium Goldâ€Cobalt Alloy Nanoparticles with Magnetic and Plasmonic Properties Obtained by Laser Ablation in Liquid. ChemPhysChem, 2021, 22, 657-664.	2.1	15
30	MÃ¶ssbauer characterization of Î³-FeSi2precipitates in Si(100). Physical Review B, 1995, 51, 86-90.	3.2	14
31	Structural dependence on composition of rapidly quenched Fe-B alloys. Physical Review B, 1992, 46, 13881-13888.	3.2	13
32	Hyperfine field temperature dependence of Fe3Si from MÃ¶ssbauer thermal scans. Physica B: Condensed Matter, 2004, 354, 369-372.	2.7	13
33	Experimental design and methodology for a new MÃ¶ssbauer scan experiment: absorption line tracking. Hyperfine Interactions, 2009, 188, 137-142.	0.5	12
34	Anticipating hyperthermic efficiency of magnetic colloids using a semi-empirical model: a tool to help medical decisions. Physical Chemistry Chemical Physics, 2017, 19, 7176-7187.	2.8	12
35	On the microstructure and thermal stability of rapidly quenched Feâ€“B alloys in the intermediate composition range between the crystalline and amorphous states. Journal of Materials Research, 1995, 10, 1917-1926.	2.6	7
36	A quasi-continuous observation of the Îµ-transition of Fe1â€‰+â€‰x S by MÃ¶ssbauer line tracking. Hyperfine Interactions, 2010, 195, 161-165.	0.5	7

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37	Magnetic and thermal MÃ¶ssbauer effect scans: a new approach. Hyperfine Interactions, 2006, 167, 839-844.	0.5	6
38	MÃ¶ssbauer study of the thermally induced transformation of the Fe0.91B0.09rapidly quenched crystalline alloy. Journal of Applied Physics, 1989, 66, 875-880.	2.5	4
39	Small-angle x-ray scattering study of nanocrystalline FeyCu1-yalloys produced by ball milling. Journal of Physics Condensed Matter, 2002, 14, 857-864.	1.8	4
40	Nanoscale Dielectric Function of Fe, Pt, Ti, Ta, Al, and V: Application to Characterization of Al Nanoparticles Synthesized by Fs Laser Ablation. Plasmonics, 2017, 12, 1813-1824.	3.4	4
41	Small-angle X-ray scattering to quantify the incorporation and analyze the disposition of magnetic nanoparticles inside cells. Journal of Colloid and Interface Science, 2022, 608, 1-12.	9.4	3
42	MÃ¶ssbauer effect phase determination in iron oxideâ€“polyaniline nanocomposites. Hyperfine Interactions, 2007, 179, 81-86.	0.5	1
43	Portable electromagnetic field applicator for magnetic hyperthermia experiments. , 2017, , .		1
44	Kinetic aspects of the solid hydrogenationâ€“ disproportionationâ€“desorptionâ€“recombination process in Nd13.67Co15.74Al0.77Ga0.27Zr0.03Fe62.2B7.33 alloys. Journal of Applied Physics, 1998, 84, 3786-3791.	2.5	0
45	Hyperfine Field and Isomer Shift Evolution in Hydrogenated Ndâ€“Feâ€“B Alloy. Hyperfine Interactions, 2001, 134, 123-129.	0.5	0
46	Structure, configuration, and sizing of Ni nanoparticles generated by ultrafast laser ablation in different media. Proceedings of SPIE, 2015, , .	0.8	0
47	Synthesis and Characterization of Magnetic Nanoparticle Colloids Generated in Liquid Media by UPLAâ€. , 2018, , .		0