

Marcela B Fernández Van Raap

List of Publications by Year in descending order

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47
papers

1,324
citations

331670

21
h-index

345221

36
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49
all docs

49
docs citations

49
times ranked

1958
citing authors

#	ARTICLE	IF	CITATIONS
1	Small-angle X-ray scattering to quantify the incorporation and analyze the disposition of magnetic nanoparticles inside cells. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1-12.	9.4	3
2	Facile synthesis by laser ablation in liquid of nonequilibrium cobalt-silver nanoparticles with magnetic and plasmonic properties. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 267-275.	9.4	29
3	Kinetically Stable Nonequilibrium Gold-Cobalt Alloy Nanoparticles with Magnetic and Plasmonic Properties Obtained by Laser Ablation in Liquid. <i>ChemPhysChem</i> , 2021, 22, 657-664.	2.1	15
4	Sciatic nerve regeneration after traumatic injury using magnetic targeted adipose-derived mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2021, 130, 234-247.	8.3	24
5	Biocompatible Iron-Boron Nanoparticles Designed for Neutron Capture Therapy Guided by Magnetic Resonance Imaging. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001632.	7.6	24
6	4D Multimodal Nanomedicines Made of Nonequilibrium Au-Fe Alloy Nanoparticles. <i>ACS Nano</i> , 2020, 14, 12840-12853.	14.6	53
7	Fluorescent and magnetic stellate mesoporous silica for bimodal imaging and magnetic hyperthermia. <i>Applied Materials Today</i> , 2019, 16, 301-314.	4.3	36
8	A simple and "green" technique to synthesize long-term stability colloidal Ag nanoparticles: Fs laser ablation in a biocompatible aqueous medium. <i>Materials Characterization</i> , 2018, 140, 320-332.	4.4	19
9	Nanoclusters of crystallographically aligned nanoparticles for magnetic thermotherapy: aqueous ferrofluid, agarose phantoms and <i>ex vivo</i> melanoma tumour assessment. <i>Nanoscale</i> , 2018, 10, 21262-21274.	5.6	33
10	Synthesis and Characterization of Magnetic Nanoparticle Colloids Generated in Liquid Media by UPLA. , 2018, , .		0
11	Anticipating hyperthermic efficiency of magnetic colloids using a semi-empirical model: a tool to help medical decisions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7176-7187.	2.8	12
12	Optical and Magnetic Properties of Fe Nanoparticles Fabricated by Femtosecond Laser Ablation in Organic and Inorganic Solvents. <i>ChemPhysChem</i> , 2017, 18, 1192-1209.	2.1	30
13	Nanoscale Dielectric Function of Fe, Pt, Ti, Ta, Al, and V: Application to Characterization of Al Nanoparticles Synthesized by Fs Laser Ablation. <i>Plasmonics</i> , 2017, 12, 1813-1824.	3.4	4
14	Hybrid nanomaterials based on gum Arabic and magnetite for hyperthermia treatments. <i>Materials Science and Engineering C</i> , 2017, 74, 443-450.	7.3	55
15	Portable electromagnetic field applicator for magnetic hyperthermia experiments. , 2017, , .		1
16	Dipolar interaction and demagnetizing effects in magnetic nanoparticle dispersions: Introducing the mean-field interacting superparamagnet model. <i>Physical Review B</i> , 2017, 95, .	3.2	38
17	Magnetically Assembled SERS Substrates Composed of Iron-Silver Nanoparticles Obtained by Laser Ablation in Liquid. <i>ChemPhysChem</i> , 2017, 18, 1026-1034.	2.1	31
18	Effects of Nanostructure and Dipolar Interactions on Magnetohyperthermia in Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12796-12809.	3.1	49

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19	Impact of magnetite iron oxide nanoparticles on wheat (<i>Triticum aestivum</i> L.) development: Evaluation of oxidative damage. <i>Environmental and Experimental Botany</i> , 2016, 131, 77-88.	4.2	144
20	Stress-Induced Gene Expression Sensing Intracellular Heating Triggered by Magnetic Hyperthermia. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7339-7348.	3.1	19
21	Effect of Nanoclustering and Dipolar Interactions in Heat Generation for Magnetic Hyperthermia. <i>Langmuir</i> , 2016, 32, 1201-1213.	3.5	126
22	Ag nanoparticles formed by femtosecond pulse laser ablation in water: self-assembled fractal structures. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	25
23	Synthesis of Ni Nanoparticles by Femtosecond Laser Ablation in Liquids: Structure and Sizing. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13184-13193.	3.1	48
24	Structure, configuration, and sizing of Ni nanoparticles generated by ultrafast laser ablation in different media. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
25	Quasi-static magnetic measurements to predict specific absorption rates in magnetic fluid hyperthermia experiments. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	22
26	Influence of size-corrected bound-electron contribution on nanometric silver dielectric function. Sizing through optical extinction spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 435301.	2.8	27
27	Stability and Relaxation Mechanisms of Citric Acid Coated Magnetite Nanoparticles for Magnetic Hyperthermia. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5436-5445.	3.1	161
28	Structural and magnetic study of zinc-doped magnetite nanoparticles and ferrofluids for hyperthermia applications. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 125006.	2.8	51
29	Analysis of the structure, configuration, and sizing of Cu and Cu oxide nanoparticles generated by fs laser ablation of solid target in liquids. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	46
30	Self organization in oleic acid-coated CoFe ₂ O ₄ colloids: a SAXS study. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	23
31	Size dependent Cu dielectric function for plasmon spectroscopy: Characterization of colloidal suspension generated by fs laser ablation. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	16
32	A quasi-continuous observation of the \hat{I}_{\pm} -transition of Fe ¹⁺ S by Mössbauer line tracking. <i>Hyperfine Interactions</i> , 2010, 195, 161-165.	0.5	7
33	Experimental design and methodology for a new Mössbauer scan experiment: absorption line tracking. <i>Hyperfine Interactions</i> , 2009, 188, 137-142.	0.5	12
34	Mössbauer effect phase determination in iron oxide/polyaniline nanocomposites. <i>Hyperfine Interactions</i> , 2007, 179, 81-86.	0.5	1
35	Magnetic and thermal Mössbauer effect scans: a new approach. <i>Hyperfine Interactions</i> , 2006, 167, 839-844.	0.5	6
36	Detailed magnetic dynamic behaviour of nanocomposite iron oxide aerogels. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 6519-6531.	1.8	20

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37	Hyperfine field temperature dependence of Fe ₃ Si from Mössbauer thermal scans. <i>Physica B: Condensed Matter</i> , 2004, 354, 369-372.	2.7	13
38	Small-angle x-ray scattering study of nanocrystalline Fe ₇₀ Cu ₁₀ alloys produced by ball milling. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 857-864.	1.8	4
39	Hyperfine Field and Isomer Shift Evolution in Hydrogenated Nd-Fe-B Alloy. <i>Hyperfine Interactions</i> , 2001, 134, 123-129.	0.5	0
40	Kinetic aspects of the solid hydrogenation-disproportionation-desorption-recombination process in Nd _{13.67} Co _{15.74} Al _{0.77} Ga _{0.27} Zr _{0.03} Fe _{62.2} B _{7.33} alloys. <i>Journal of Applied Physics</i> , 1998, 84, 3786-3791.	2.5	0
41	Mössbauer study of the Fe-Si phases produced by Fe implantation followed by ion-beam-induced epitaxial crystallization. <i>Physical Review B</i> , 1996, 54, 12787-12792.	3.2	16
42	Mössbauer characterization of ⁵⁷ Fe-Si ₂ precipitates in Si(100). <i>Physical Review B</i> , 1995, 51, 86-90.	3.2	14
43	On the microstructure and thermal stability of rapidly quenched Fe-B alloys in the intermediate composition range between the crystalline and amorphous states. <i>Journal of Materials Research</i> , 1995, 10, 1917-1926.	2.6	7
44	Anisotropic Phase Separation through the Metal-Insulator Transition in Amorphous Alloys. <i>Physical Review Letters</i> , 1994, 73, 1118-1121.	7.8	25
45	Structural dependence on composition of rapidly quenched Fe-B alloys. <i>Physical Review B</i> , 1992, 46, 13881-13888.	3.2	13
46	Structural composition dependence of amorphous silicon-iron prepared by ion implantation and by coevaporation: A Mössbauer study. <i>Physical Review B</i> , 1991, 44, 4290-4295.	3.2	18
47	Mössbauer study of the thermally induced transformation of the Fe _{0.91} B _{0.09} rapidly quenched crystalline alloy. <i>Journal of Applied Physics</i> , 1989, 66, 875-880.	2.5	4