Renata Aquino

List of Publications by Year in descending order

46 papers	1,222 citations	361413 20 h-index	377865 34 g-index
48 all docs	48 docs citations	48 times ranked	1574 citing authors

#	Article	IF	Citations
1	Magnetization temperature dependence and freezing of surface spins in magnetic fluids based on ferrite nanoparticles. Physical Review B, 2005, 72, .	3.2	128
2	Synthesis of Coreâ˜Shell Ferrite Nanoparticles for Ferrofluids:â€‰ Chemical and Magnetic Analysis. Journal of Physical Chemistry C, 2008, 112, 6220-6227.	3.1	125
3	â€œNanocastingâ€Â Using SBA-15 Silicas as Hard Templates to Obtain Ultrasmall Monodispersed Î³-Fe2O3Nanoparticles. Journal of Physical Chemistry B, 2006, 110, 26001-26011.	2.6	102
4	Structural and Magnetic Properties of Spinel Ferrite Nanoparticles. Journal of Nanoscience and Nanotechnology, 2019, 19, 4888-4902.	0.9	77
5	Core-Shell Bimagnetic Nanoadsorbents for Hexavalent Chromium Removal from Aqueous Solutions. Journal of Hazardous Materials, 2019, 362, 82-91.	12.4	71
6	Core/Shell Nanoparticles of Non-Stoichiometric Znâ€“Mn and Znâ€“Co Ferrites as Thermosensitive Heat Sources for Magnetic Fluid Hyperthermia. Journal of Physical Chemistry C, 2018, 122, 3028-3038.	3.1	68
7	Surface spin freezing of ferrite nanoparticles evidenced by magnetization measurements. Journal of Applied Physics, 2006, 99, 08M905.	2.5	47
8	Hydrothermal synthesis of mixed zincâ€“cobalt ferrite nanoparticles: structural and magnetic properties. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	45
9	Exchange bias of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0008.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>MnFe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow><mml:mrow mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub><mml:mo>@</mml:mo><mml:mi mathvariant="n. Journal of Magnetism and Magnetic Materials, 2014, 368, 409-414.	2.3	42
10	Local Structure of Coreâ€“Shell MnFe₂O_{4+Î´}-Based Nanocrystals: Cation Distribution and Valence States of Manganese Ions. Journal of Physical Chemistry C, 2017, 121, 8982-8991.	3.1	36
11	Size control of MnFe2O4 nanoparticles in electric double layered magnetic fluid synthesis. Journal of Magnetism and Magnetic Materials, 2002, 252, 23-25.	2.3	35
12	Temperature dependence of the Soret coefficient of ionic colloids. Physical Review E, 2015, 92, 042311.	2.1	34
13	Low Temperature Experimental Investigation of Finite-Size and Surface Effects in CuFe₂O₄ Nanoparticles of Ferrofluids. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 694-699.	0.1	28
14	Experimental evidence of surface effects in the magnetic dynamics behavior of ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2005, 289, 118-121.	2.3	27
15	The role of magnetic interactions in exchange bias properties of MnFe₂O₄@Î³-Fe₂O₃core/shell nanoparticles. Journal Physics D: Applied Physics, 2013, 46, 285003.	2.8	27
16	Superparamagnetic relaxation evidences large surface contribution for the magnetic anisotropy of MnFe204 nanoparticles of ferrofluids. Journal of Materials Science, 2007, 42, 2297-2303.	3.7	26
17	Influence of the spatial confinement at nanoscale on the structural surface charging in magnetic nanocolloids. European Physical Journal E, 2013, 36, 9856.	1.6	26
18	Rare earth doped maghemite EDL-MF: a perspective for nanoradiotherapy?. Journal of Magnetism and Magnetic Materials, 2002, 252, 375-377.	2.3	25

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19	In-field Mossbauer study of disordered surface spins in core/shell ferrite nanoparticles. Journal of Applied Physics, 2009, 106, 093901.	2.5	23
20	Thermodiffusion of repulsive charged nanoparticles â€“ the interplay between single-particle and thermoelectric contributions. Physical Chemistry Chemical Physics, 2018, 20, 16402-16413.	2.8	22
21	Effect of citric acid on the morpho-structural and magnetic properties of ultrasmall iron oxide nanoparticles. Journal of Alloys and Compounds, 2021, 883, 160779.	5.5	19
22	Surface charge density determination in electric double layered magnetic fluids. Brazilian Journal of Physics, 2002, 32, 501-508.	1.4	17
23	Thermodiffusion in positively charged magnetic colloids: Influence of the particle diameter. Physical Review E, 2014, 89, 032308.	2.1	14
24	Blocking and remanence properties of weakly and highly interactive cobalt ferrite based nanoparticles. Journal of Physics Condensed Matter, 2019, 31, 175801.	1.8	14
25	Surface spin disorder in nickel ferrite nanomagnets studied by in-field MÃ¶ssbauer spectroscopy. Hyperfine Interactions, 2008, 184, 9-14.	0.5	13
26	Spectroscopic characterization and biological studies inÂvitro of a new silver complex with furosemide: Prospective of application as an antimicrobial agent. Journal of Molecular Structure, 2017, 1134, 386-394.	3.6	13
27	Using speciation diagrams to improve synthesis of magnetic nanosorbents for environmental applications. Bulletin of Materials Science, 2011, 34, 1357-1361.	1.7	12
28	Small-angle X-ray and small-angle neutron scattering investigations of colloidal dispersions of magnetic nanoparticles and clay nanoplatelets. Journal of Applied Crystallography, 2007, 40, s269-s273.	4.5	11
29	Exchange-bias and magnetic anisotropy fields in coreâ€“shell ferrite nanoparticles. Scientific Reports, 2021, 11, 5474.	3.3	11
30	Magnetic and structural study of electric double-layered ferrofluid withMnFe2O4@Î³â^'Fe2O3nanoparticles of different mean diameters: Determination of the magnetic correlation distance. Physical Review E, 2015, 91, 042317.	2.1	10
31	Surface Charge Density Determination in Water Based Magnetic Colloids: a Comparative Study. Materials Research, 2017, 20, 1729-1734.	1.3	10
32	The use of a laponite dispersion to increase the hydrophilicity of cobalt-ferrite magnetic nanoparticles. Applied Clay Science, 2020, 193, 105663.	5.2	10
33	Gravitational and magnetic separation in self-assembled clay-ferrofluid nanocomposites. Brazilian Journal of Physics, 2009, 39, .	1.4	9
34	Sm and Y radiolabeled magnetic fluids: magnetic and magneto-optical characterization. Journal of Magnetism and Magnetic Materials, 2005, 289, 431-434.	2.3	8
35	Size dependence of the surface charge density in EDL-MF. Journal of Magnetism and Magnetic Materials, 2002, 252, 29-31.	2.3	7
36	Magnetic irreversibility and saturation criteria in ultrasmall bi-magnetic nanoparticles. Journal of Alloys and Compounds, 2020, 824, 153646.	5.5	6

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37	Probing interface and finite size effects in magnetic ferrite nanoparticles by electrochemical measurements. Journal of Magnetism and Magnetic Materials, 2007, 310, 2847-2849.	2.3	5
38	Electrodic reduction of coreâ€“shell ferrite magnetic nanoparticles. New Journal of Chemistry, 2016, 40, 6405-6413.	2.8	5
39	Nanoparticle Size Distribution and Surface Effects on the Thermal Dependence of Magnetic Anisotropy. Journal of Physical Chemistry C, 2022, 126, 1581-1589.	3.1	5
40	Exchange bias properties and surface spin freezing in magnetic nanoparticles. Physics Procedia, 2010, 9, 28-31.	1.2	3
41	Dispersions of magnetic nanoparticles in the mixture ethyleneglycol-choline chloride: The role of solvent association. Journal of Molecular Liquids, 2018, 268, 545-552.	4.9	3
42	Exchange bias properties and surface spins freezing in ferrite nanoparticles of magnetic nanocolloids. Journal of Physics: Conference Series, 2010, 200, 072035.	0.4	1
43	Local Structure Investigation of Core-Shell CoFe2O4@Î³-Fe2O3 Nanoparticles. Brazilian Journal of Physics, 2021, 51, 47-59.	1.4	1
44	The Cytogenetic Examination as a Tool for the Diagnosis of Chromosomal Disorders. International Journal of Morphology, 2011, 29, 57-64.	0.2	1
45	Surface spin disorder in nickel ferrite nanomagnets studied by in-field MÃ¶ssbauer spectroscopy. , 2008, , 423-428.		0
46	InvestigaÃ§Ã£o MorfolÃ³gica e Estrutural de NanopartÃculas MagnÃ©ticas do Tipo Core@Shell por Meio TÃ©cnicas de RadiaÃ§Ã£o SÃncrotron e Microscopia EletrÃ´nica de TransmissÃ£o. , 0, , .		0