

# M Puerto Morales

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

273 papers	15,883 citations	63 h-index	118 g-index
292 ext. papers	17,275 ext. citations	4.9 avg, IF	6.43 L-index

#	Paper	IF	Citations
273	The preparation of magnetic nanoparticles for applications in biomedicine. <i>Journal Physics D: Applied Physics</i> , <b>2003</b> , 36, R182-R197	3	1490
272	Static and dynamic magnetic properties of spherical magnetite nanoparticles. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 3520-3528	2.5	1084
271	Biological applications of magnetic nanoparticles. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 4306-34	58.5	939
270	Surface and Internal Spin Canting in $\text{Fe}_2\text{O}_3$ Nanoparticles. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 3058-3064	9.6	553
269	Progress in the preparation of magnetic nanoparticles for applications in biomedicine. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 224002	3	295
268	Structural and magnetic properties of uniform magnetite nanoparticles prepared by high temperature decomposition of organic precursors. <i>Nanotechnology</i> , <b>2006</b> , 17, 2783-2788	3.4	293
267	The influence of surface functionalization on the enhanced internalization of magnetic nanoparticles in cancer cells. <i>Nanotechnology</i> , <b>2009</b> , 20, 115103	3.4	267
266	Ordered ferrimagnetic form of ferrihydrite reveals links among structure, composition, and magnetism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 2787-92	11.5	263
265	Surfactant effects in magnetite nanoparticles of controlled size. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 316, e756-e759	2.8	250
264	Magnetite nanoparticles: Electrochemical synthesis and characterization. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 3436-3441	6.7	241
263	Effect of Nature and Particle Size on Properties of Uniform Magnetite and Maghemite Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 18577-18584	3.8	237
262	Substrate oxidation sites in versatile peroxidase and other basidiomycete peroxidases. <i>Journal of Experimental Botany</i> , <b>2009</b> , 60, 441-52	7	206
261	Study of Heating Efficiency as a Function of Concentration, Size, and Applied Field in $\text{Fe}_2\text{O}_3$ Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 25602-25610	3.8	205
260	Advances in magnetic nanoparticles for biotechnology applications. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 290-291, 28-34	2.8	190
259	Multiplying Magnetic Hyperthermia Response by Nanoparticle Assembling. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 5927-5934	3.8	189
258	Uniform and water stable magnetite nanoparticles with diameters around the monodomain-multidomain limit. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 134003	3	181
257	The Growth Mechanism of $\text{Fe}_2\text{O}_3$ Ellipsoidal Particles in Solution. <i>Journal of Colloid and Interface Science</i> , <b>1995</b> , 171, 85-91	9.3	163

256	Formation of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> Isolated Nanoparticles in a Silica Matrix. <i>Langmuir</i> , <b>1997</b> , 13, 3627-3634	4	161
255	The formation of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> monodispersed particles in solution. <i>Journal of Materials Research</i> , <b>1992</b> , 7, 2538-2545	2.5	148
254	Surface characterisation of dextran-coated iron oxide nanoparticles prepared by laser pyrolysis and coprecipitation. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 293, 20-27	2.8	142
253	Dimercaptosuccinic acid-coated magnetite nanoparticles for magnetically guided in vivo delivery of interferon gamma for cancer immunotherapy. <i>Biomaterials</i> , <b>2011</b> , 32, 2938-52	15.6	141
252	Homogeneous Precipitation of Uniform $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> Particles from Iron Salts Solutions in the Presence of Urea. <i>Journal of Colloid and Interface Science</i> , <b>1999</b> , 212, 317-323	9.3	139
251	Design strategies for shape-controlled magnetic iron oxide nanoparticles. <i>Advanced Drug Delivery Reviews</i> , <b>2019</b> , 138, 68-104	18.5	127
250	Controlled synthesis of uniform magnetite nanocrystals with high-quality properties for biomedical applications. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 21065		126
249	Effect of nanoparticle and aggregate size on the relaxometric properties of MR contrast agents based on high quality magnetite nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 7033-9	3.4	124
248	Spin canting due to structural disorder in maghemite. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 5461-5467	11.5	117
247	Continuous production of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> ultrafine powders by laser pyrolysis. <i>Materials Letters</i> , <b>1998</b> , 35, 227-231	3.3	117
246	A Single Picture Explains Diversity of Hyperthermia Response of Magnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 15698-15706	3.8	115
245	Magnetic nanoparticles for power absorption: Optimizing size, shape and magnetic properties. <i>Journal of Solid State Chemistry</i> , <b>2009</b> , 182, 2779-2784	3.3	115
244	Synthesis of cobalt ferrite core/metallic shell nanoparticles for the development of a specific PNA/DNA biosensor. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 321, 484-92	9.3	113
243	Barium ferrite nanoparticles prepared directly by aerosol pyrolysis. <i>Materials Letters</i> , <b>2000</b> , 43, 97-101	3.3	112
242	Effect of particle shape in magnetorheology. <i>Journal of Rheology</i> , <b>2010</b> , 54, 1337-1362	4.1	111
241	Fe-based nanoparticulate metallic alloys as contrast agents for magnetic resonance imaging. <i>Biomaterials</i> , <b>2005</b> , 26, 5695-703	15.6	106
240	Effect of Nanoclustering and Dipolar Interactions in Heat Generation for Magnetic Hyperthermia. <i>Langmuir</i> , <b>2016</b> , 32, 1201-13	4	102
239	Preparation of Narrow Size Distribution Superparamagnetic $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> Nanoparticles in a Sol-Gel Transparent SiO <sub>2</sub> Matrix. <i>Langmuir</i> , <b>2002</b> , 18, 4972-4978	4	102

238	Synthesis of heterogeneous enzyme-metal nanoparticle biohybrids in aqueous media and their applications in C-C bond formation and tandem catalysis. <i>Chemical Communications</i> , <b>2013</b> , 49, 6876-8	5.8	101
237	Hyperthermia HeLa Cell Treatment with Silica-Coated Manganese Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 1976-1981	3.8	99
236	Contrast agents for MRI based on iron oxide nanoparticles prepared by laser pyrolysis. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 266, 102-109	2.8	93
235	Magnetic nanoparticles with bulklike properties (invited). <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07B524	2.5	92
234	Long term biotransformation and toxicity of dimercaptosuccinic acid-coated magnetic nanoparticles support their use in biomedical applications. <i>Journal of Controlled Release</i> , <b>2013</b> , 171, 225-337	11.7	88
233	Structural Characteristics of Uniform $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Particles with Different Axial (Length/Width) Ratios. <i>Journal of Solid State Chemistry</i> , <b>1994</b> , 108, 158-163	3.3	88
232	Efficient and safe internalization of magnetic iron oxide nanoparticles: two fundamental requirements for biomedical applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2014</b> , 10, 733-43	6	84
231	Biodistribution and pharmacokinetics of uniform magnetite nanoparticles chemically modified with polyethylene glycol. <i>Nanoscale</i> , <b>2013</b> , 5, 11400-8	7.7	84
230	Synthesis methods to prepare single- and multi-core iron oxide nanoparticles for biomedical applications. <i>Dalton Transactions</i> , <b>2015</b> , 44, 2943-52	4.3	84
229	Barium hexaferrite monodispersed nanoparticles prepared by the ceramic method. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2001</b> , 234, 65-72	2.8	84
228	Comparative study of ferrofluids based on dextran-coated iron oxide and metal nanoparticles for contrast agents in magnetic resonance imaging. <i>Nanotechnology</i> , <b>2004</b> , 15, S154-S159	3.4	82
227	Preparation of uniform $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> particles with nanometer size by spray pyrolysis. <i>Materials Letters</i> , <b>1993</b> , 18, 151-155	3.3	82
226	Polyethylenimine-coated SPIONs trigger macrophage activation through TLR-4 signaling and ROS production and modulate podosome dynamics. <i>Biomaterials</i> , <b>2015</b> , 52, 494-506	15.6	80
225	Ultrasmall iron oxide nanoparticles for biomedical applications: improving the colloidal and magnetic properties. <i>Langmuir</i> , <b>2012</b> , 28, 178-85	4	76
224	Highly Transparent $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> /Vycor-Glass Magnetic Nanocomposites Exhibiting Faraday Rotation. <i>Advanced Materials</i> , <b>2003</b> , 15, 1809-1812	24	75
223	Aggregation effects on the magnetic properties of iron oxide colloids. <i>Nanotechnology</i> , <b>2019</b> , 30, 112001	3.4	75
222	Sol-gel formation of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> nanocomposites. <i>Acta Materialia</i> , <b>2001</b> , 49, 2805-2811	8.4	74
221	Magnetite nanoparticles with no surface spin canting. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 114309	2.5	73

220	Magnetic Capsules for NMR Imaging: Effect of Magnetic Nanoparticles Spatial Distribution and Aggregation. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 6257-6264	3.8	72
219	Modulation of Magnetic Heating via Dipolar Magnetic Interactions in Monodisperse and Crystalline Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 19985-19994	3.8	71
218	Short-chain PEG molecules strongly bound to magnetic nanoparticle for MRI long circulating agents. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 6421-30	10.8	70
217	Synthesis and Characterization of Single-Domain Monocrystalline Magnetite Particles by Oxidative Aging of Fe(OH) <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 5843-5849	3.8	70
216	Surface anisotropy broadening of the energy barrier distribution in magnetic nanoparticles. <i>Nanotechnology</i> , <b>2008</b> , 19, 475704	3.4	68
215	Structural effects on the magnetic properties of Fe <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 203, 146-148	2.8	68
214	In-situ particles reorientation during magnetic hyperthermia application: Shape matters twice. <i>Scientific Reports</i> , <b>2016</b> , 6, 38382	4.9	68
213	Interfacial and Rheological Characteristics of Maghemite Aqueous Suspensions. <i>Journal of Colloid and Interface Science</i> , <b>1998</b> , 205, 470-475	9.3	65
212	Bifunctional Nanocomposites with Long-Term Stability as SERS Optical Accumulators for Ultrasensitive Analysis. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 3373-3377	3.8	63
211	Site-directed mutagenesis of the catalytic tryptophan environment in <i>Pleurotus eryngii</i> versatile peroxidase. <i>Biochemistry</i> , <b>2008</b> , 47, 1685-95	3.2	62
210	Spin frustration in maghemite nanoparticles. <i>Solid State Communications</i> , <b>2001</b> , 118, 437-440	1.6	60
209	Two oxidation sites for low redox potential substrates: a directed mutagenesis, kinetic, and crystallographic study on <i>Pleurotus eryngii</i> versatile peroxidase. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 41053-67	5.4	58
208	Core-shell iron-iron oxide nanoparticles synthesized by laser-induced pyrolysis. <i>Small</i> , <b>2006</b> , 2, 1476-83	11	58
207	Effects of phase transfer ligands on monodisperse iron oxide magnetic nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 437, 147-155	9.3	57
206	Liver and brain imaging through dimercaptosuccinic acid-coated iron oxide nanoparticles. <i>Nanomedicine</i> , <b>2010</b> , 5, 397-408	5.6	57
205	Formation Mechanism of Maghemite Nanoflowers Synthesized by a Polyol-Mediated Process. <i>ACS Omega</i> , <b>2017</b> , 2, 7172-7184	3.9	56
204	Synthesis of Monodispersed Magnetite Particles From Different Organometallic Precursors. <i>IEEE Transactions on Magnetics</i> , <b>2006</b> , 42, 3025-3029	2	56
203	Synthesis and characterization of CoFe <sub>2</sub> O <sub>4</sub> ferrite nanoparticles obtained by an electrochemical method. <i>Nanotechnology</i> , <b>2012</b> , 23, 355708	3.4	55

202	Magnetic nanoparticles: synthesis, ordering and properties. <i>Physica B: Condensed Matter</i> , <b>2004</b> , 354, 71-728		55
201	Fast synthesis and bioconjugation of (68) Ga core-doped extremely small iron oxide nanoparticles for PET/MR imaging. <i>Contrast Media and Molecular Imaging</i> , <b>2016</b> , 11, 203-10	3.2	54
200	Synthesis of high intrinsic loss power aqueous ferrofluids of iron oxide nanoparticles by citric acid-assisted hydrothermal-reduction route. <i>Journal of Solid State Chemistry</i> , <b>2012</b> , 187, 20-26	3.3	53
199	chapter 5 Synthesis, Properties and Biomedical Applications of Magnetic Nanoparticles. <i>Handbook of Magnetic Materials</i> , <b>2006</b> , 16, 403-482	1.3	53
198	Thermal history dependence of the crystal structure of Co fine particles. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	53
197	Structural and magnetic transformation of monodispersed iron oxide particles in a reducing atmosphere. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 2079-2085	2.5	52
196	Classification of Magnetic Nanoparticle Systems--Synthesis, Standardization and Analysis Methods in the NanoMag Project. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 20308-25	6.3	51
195	Effects of surfactants on the particle morphology and self-organization of Co nanocrystals. <i>Materials Science and Engineering C</i> , <b>2003</b> , 23, 1129-1132	8.3	51
194	Synthesis of aqueous ferrofluids of $Zn_xFe_{3-x}O_4$ nanoparticles by citric acid assisted hydrothermal-reduction route for magnetic hyperthermia applications. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 2211-2217	2.8	50
193	Colloidal Flower-Shaped Iron Oxide Nanoparticles: Synthesis Strategies and Coatings. <i>Particle and Particle Systems Characterization</i> , <b>2017</b> , 34, 1700094	3.1	49
192	Faraday rotation in magnetic $Fe_2O_3/SiO_2$ nanocomposites. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 2698-2700	3.4	49
191	Colloidal dispersions of maghemite nanoparticles produced by laser pyrolysis with application as NMR contrast agents. <i>Journal Physics D: Applied Physics</i> , <b>2004</b> , 37, 2054-2059	3	47
190	Relationship between physico-chemical properties of magnetic fluids and their heating capacity. <i>International Journal of Hyperthermia</i> , <b>2013</b> , 29, 768-76	3.7	46
189	Multidomain to single-domain transition for uniform $Co_{80}Ni_{20}$ nanoparticles. <i>Nanotechnology</i> , <b>2003</b> , 14, 268-272	3.4	46
188	Large scale production of biocompatible magnetite nanocrystals with high saturation magnetization values through green aqueous synthesis. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 5995-6004	7.3	44
187	Electrochemical synthesis of $NiFe_2O_4$ nanoparticles: Characterization and their catalytic applications. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S241-S244	5.7	44
186	Effect of the process conditions on the structural and magnetic properties of $Fe_2O_3$ nanoparticles produced by laser pyrolysis. <i>Scripta Materialia</i> , <b>2002</b> , 47, 589-593	5.6	44
185	Magnetic properties of uniform $Fe_2O_3$ nanoparticles smaller than 5 nm prepared by laser pyrolysis. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 3066-3072	2.5	43

184	Particle Interactions in Liquid Magnetic Colloids by Zero Field Cooled Measurements: Effects on Heating Efficiency. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 11022-11030	3.8	42
183	Synthesis and surface modification of uniform MFe <sub>2</sub> O <sub>4</sub> (M = Fe, Mn, and Co) nanoparticles with tunable sizes and functionalities. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	42
182	Bioinorganic transformations of liver iron deposits observed by tissue magnetic characterisation in a rat model. <i>Journal of Inorganic Biochemistry</i> , <b>2006</b> , 100, 1790-9	4.2	42
181	Preparation of high acicular and uniform goethite particles by a modified-carbonate route. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 2561-2565		42
180	Magnetic Study of Fe <sub>3</sub> O <sub>4</sub> Nanoparticles Incorporated within Mesoporous Silicon. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, K145	3.9	41
179	The internal structure of magnetic nanoparticles determines the magnetic response. <i>Nanoscale</i> , <b>2017</b> , 9, 5129-5140	7.7	40
178	Magnetic properties and energy absorption of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles for magnetic hyperthermia. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 072101	0.3	39
177	Monodispersed spindle-type goethite nanoparticles from Fe(III) solutions. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 3649-3653		39
176	Whither Magnetic Hyperthermia? A Tentative Roadmap. <i>Materials</i> , <b>2021</b> , 14,	3.5	39
175	Time-course assessment of the aggregation and metabolization of magnetic nanoparticles. <i>Acta Biomaterialia</i> , <b>2017</b> , 58, 181-195	10.8	38
174	Nanostructural origin of the spin and orbital contribution to the magnetic moment in Fe <sub>3</sub> O <sub>4</sub> magnetite nanoparticles. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 093108	3.4	38
173	Accurate determination of the specific absorption rate in superparamagnetic nanoparticles under non-adiabatic conditions. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 062413	3.4	38
172	Biotransformation of magnetic nanoparticles as a function of coating in a rat model. <i>Nanoscale</i> , <b>2015</b> , 7, 16321-9	7.7	37
171	Synthesis and characterization of FePt/Au core-shell nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 316, e753-e755	2.8	37
170	Ac magnetic susceptibility study of in vivo nanoparticle biodistribution. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 255002	3	36
169	Cytokine adsorption/release on uniform magnetic nanoparticles for localized drug delivery. <i>Journal of Controlled Release</i> , <b>2008</b> , 130, 168-74	11.7	36
168	Deferiprone and idebenone rescue frataxin depletion phenotypes in a Drosophila model of Friedreich's ataxia. <i>Gene</i> , <b>2013</b> , 521, 274-81	3.8	34
167	One-Step Fast Synthesis of Nanoparticles for MRI: Coating Chemistry as the Key Variable Determining Positive or Negative Contrast. <i>Langmuir</i> , <b>2017</b> , 33, 10239-10247	4	34



166	Exchange anisotropy in Co <sub>80</sub> Ni <sub>20</sub> /oxide nanoparticles. <i>Nanotechnology</i> , <b>2004</b> , 15, S293-S297	3.4	34
165	Preparation, Characterization, and Magnetic Properties of Fe-Based Alloy Particles with Elongated Morphology. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 3558-3563	9.6	34
164	Different cell responses induced by exposure to maghemite nanoparticles. <i>Nanoscale</i> , <b>2013</b> , 5, 11428-377.7		33
163	RGD-Functionalized FeO nanoparticles for magnetic hyperthermia. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 165, 315-324	6	32
162	Hydrothermal synthesis of fine stabilized superparamagnetic nanoparticles of Zn <sup>2+</sup> substituted manganese ferrite. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 393, 429-436	2.8	31
161	Versatile theranostics agents designed by coating ferrite nanoparticles with biocompatible polymers. <i>Nanotechnology</i> , <b>2016</b> , 27, 255702	3.4	31
160	Flower-like Mn-Doped Magnetic Nanoparticles Functionalized with Integrin-Ligand to Efficiently Induce Intracellular Heat after Alternating Magnetic Field Exposition, Triggering Glioma Cell Death. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26648-26663	9.5	31
159	Magnetic characterisation of rat muscle tissues after subcutaneous iron dextran injection. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2005</b> , 1740, 434-45	6.9	31
158	Yttria-Coated FeCo Magnetic Nanoneedles. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 3119-3124	9.6	31
157	Magnetic nanoparticles coated with dimercaptosuccinic acid: development, characterization, and application in biomedicine. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	30
156	Comparative analysis of the 1H NMR relaxation enhancement produced by iron oxide and core-shell iron-iron oxide nanoparticles. <i>Magnetic Resonance Imaging</i> , <b>2007</b> , 25, 1437-41	3.3	30
155	Continuous production of water dispersible carbon-iron nanocomposites by laser pyrolysis: application as MRI contrasts. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 313, 511-8	9.3	30
154	A new method for the rapid synthesis of water stable superparamagnetic nanoparticles. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 9126-30	4.8	30
153	Maghemite (Fe <sub>2</sub> O <sub>3</sub> ): A Versatile Magnetic Colloidal Material <b>2004</b> , 27-81		30
152	How shape and internal structure affect the magnetic properties of anisometric magnetite nanoparticles. <i>Acta Materialia</i> , <b>2017</b> , 125, 416-424	8.4	29
151	Degradation of magnetic nanoparticles mimicking lysosomal conditions followed by AC susceptibility. <i>Biomedizinische Technik</i> , <b>2015</b> , 60, 417-25	1.3	29
150	Variable blocking temperature of a porous silicon/Fe <sub>3</sub> O <sub>4</sub> composite due to different interactions of the magnetic nanoparticles. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 445	5	29
149	Influence of the temperature in the electrochemical synthesis of cobalt ferrites nanoparticles. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S222-S225	5.7	29



148	Development of Magnetic Nanoparticles for Cancer Gene Therapy: A Comprehensive Review. <i>ISRN Nanomaterials</i> , <b>2013</b> , 2013, 1-14		29
147	Magnetic conducting composites based on polypyrrol and iron oxide nanoparticles synthesized via electrochemistry. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 2115-2120	2.8	29
146	Continuous production of inorganic magnetic nanocomposites for biomedical applications by laser pyrolysis. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 311, 120-124	2.8	29
145	Effect of the oxidation conditions on the maghemites produced by laser pyrolysis. <i>Applied Organometallic Chemistry</i> , <b>2001</b> , 15, 365-372	3.1	29
144	Escherichia coli expression and in vitro activation of a unique ligninolytic peroxidase that has a catalytic tyrosine residue. <i>Protein Expression and Purification</i> , <b>2009</b> , 68, 208-14	2	28
143	Uniform nanosized goethite particles obtained by aerial oxidation in the FeSO <sub>4</sub> -Na <sub>2</sub> CO <sub>3</sub> system. <i>Journal of Colloid and Interface Science</i> , <b>2002</b> , 254, 87-94	9.3	27
142	Superparamagnetic nanosorbent for water purification: Assessment of the adsorptive removal of lead and methyl orange from aqueous solutions. <i>Science of the Total Environment</i> , <b>2020</b> , 711, 134644	10.2	27
141	Cell-Promoted Nanoparticle Aggregation Decreases Nanoparticle-Induced Hyperthermia under an Alternating Magnetic Field Independently of Nanoparticle Coating, Core Size, and Subcellular Localization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 340-355	9.5	27
140	Tc-, Y-, and Lu-Labeled Iron Oxide Nanoflowers Designed for Potential Use in Dual Magnetic Hyperthermia/Radionuclide Cancer Therapy and Diagnosis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 41109-41117	9.5	26
139	Multiparametric Toxicity Evaluation of SPIONs by High Content Screening Technique: Identification of Biocompatible Multifunctional Nanoparticles for Nanomedicine. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 377-382	2	26
138	Magnetic enhancement during the crystallization of ferrihydrite at 25 and 50°C. <i>Clays and Clay Minerals</i> , <b>2009</b> , 57, 46-53	2.1	25
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