

# Carlos J Serna

## List of Publications by Year in descending order

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28  
papers

4,648  
citations

257450

24  
h-index

526287

27  
g-index

30  
all docs

30  
docs citations

30  
times ranked

7254  
citing authors

#	ARTICLE	IF	CITATIONS
1	The preparation of magnetic nanoparticles for applications in biomedicine. <i>Journal Physics D: Applied Physics</i> , 2003, 36, R182-R197.	2.8	1,673
2	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> , 2010, 107, 2787-2792.	7.1	312
3	The influence of surface functionalization on the enhanced internalization of magnetic nanoparticles in cancer cells. <i>Nanotechnology</i> , 2009, 20, 115103.	2.6	299
4	Effect of Nature and Particle Size on Properties of Uniform Magnetite and Maghemite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18577-18584.	3.1	278
5	Synthesis of Monodisperse Superparamagnetic Fe/Silica Nanospherical Composites. <i>Journal of the American Chemical Society</i> , 2003, 125, 15754-15755.	13.7	242
6	The Iron Oxides Strike Back: From Biomedical Applications to Energy Storage Devices and Photoelectrochemical Water Splitting. <i>Advanced Materials</i> , 2011, 23, 5243-5249.	21.0	211
7	Uniform colloidal particles in solution: Formation mechanisms. <i>Advanced Materials</i> , 1995, 7, 212-216.	21.0	188
8	Metastability of Tetragonal Zirconia Powders. <i>Journal of the American Ceramic Society</i> , 1985, 68, 135-139.	3.8	187
9	Dimercaptosuccinic acid-coated magnetite nanoparticles for magnetically guided in vivo delivery of interferon gamma for cancer immunotherapy. <i>Biomaterials</i> , 2011, 32, 2938-2952.	11.4	170
10	Surface characterisation of dextran-coated iron oxide nanoparticles prepared by laser pyrolysis and coprecipitation. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 293, 20-27.	2.3	162
11	Controlled synthesis of uniform magnetite nanocrystals with high-quality properties for biomedical applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 21065.	6.7	141
12	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> , 2009, 113, 7033-7039.	2.6	131
13	Microemulsion-Assisted Synthesis of Tunable Superparamagnetic Composites. <i>Chemistry of Materials</i> , 2002, 14, 4396-4402.	6.7	97
14	Synthesis of Nanomagnets Dispersed in Colloidal Silica Cages with Applications in Chemical Separation. <i>Langmuir</i> , 2002, 18, 4556-4558.	3.5	80
15	Magnetic Behavior of $\hat{1}^3$ -Fe <sub>2</sub> O <sub>3</sub> Nanocrystals Dispersed in Colloidal Silica Particles. <i>Journal of Physical Chemistry B</i> , 2003, 107, 20-24.	2.6	80
16	chapter 5 Synthesis, Properties and Biomedical Applications of Magnetic Nanoparticles. <i>Handbook of Magnetic Materials</i> , 2006, 16, 403-482.	0.6	67
17	Liver and brain imaging through dimercaptosuccinic acid-coated iron oxide nanoparticles. <i>Nanomedicine</i> , 2010, 5, 397-408.	3.3	64
18	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> , 2012, 14, 1.	1.9	54

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19	A simple procedure for the preparation of spherical oxide particles by hydrolysis of aerosols. <i>Ceramics International</i> , 1992, 18, 99-106.	4.8	50
20	Cytokine adsorption/release on uniform magnetic nanoparticles for localized drug delivery. <i>Journal of Controlled Release</i> , 2008, 130, 168-174.	9.9	38
21	Yttria-Coated FeCo Magnetic Nanoneedles. <i>Chemistry of Materials</i> , 2004, 16, 3119-3124.	6.7	34
22	Metallic Nanomagnets Randomly Dispersed in Spherical Colloids: Toward a Universal Route for the Preparation of Colloidal Composites Containing Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6304-6307.	13.8	26
23	Spherical iron/silica nanocomposites from core-shell particles. <i>Journal of Colloid and Interface Science</i> , 2006, 294, 355-361.	9.4	25
24	Core/Shell Magnetite/Bismuth Oxide Nanocrystals with Tunable Size, Colloidal, and Magnetic Properties. <i>Chemistry of Materials</i> , 2012, 24, 319-324.	6.7	25
25	The influence of protective coatings on the magnetic properties of acicular iron nanoparticles. <i>Nanotechnology</i> , 2006, 17, 1421-1427.	2.6	5
26	Direct aerosol synthesis of carboxy-functionalized iron oxide colloids displaying reversible magnetic behavior. <i>Journal of Colloid and Interface Science</i> , 2007, 309, 68-71.	9.4	4
27	Metallic Nanomagnets Randomly Dispersed in Spherical Colloids: Toward a Universal Route for the Preparation of Colloidal Composites Containing Nanoparticles. <i>Angewandte Chemie</i> , 2004, 116, 6464-6467.	2.0	3
28	Preparation of Magnetic Nanoparticles for Applications in Biomedicine. , 2019, , 52-67.		2