

# 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	Preparation of Magnetic Nanoparticles for Applications in Biomedicine. , 2019, , 52-67.		2
2	Core/Shell Magnetite/Bismuth Oxide Nanocrystals with Tunable Size, Colloidal, and Magnetic Properties. Chemistry of Materials, 2012, 24, 319-324.	6.7	25
3	Controlled synthesis of uniform magnetite nanocrystals with high-quality properties for biomedical applications. Journal of Materials Chemistry, 2012, 22, 21065.	6.7	141
4	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. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	54
5	The Iron Oxides Strike Back: From Biomedical Applications to Energy Storage Devices and Photoelectrochemical Water Splitting. Advanced Materials, 2011, 23, 5243-5249.	21.0	211
6	Dimercaptosuccinic acid-coated magnetite nanoparticles for magnetically guided in vivo delivery of interferon gamma for cancer immunotherapy. Biomaterials, 2011, 32, 2938-2952.	11.4	170
7	Liver and brain imaging through dimercaptosuccinic acid-coated iron oxide nanoparticles. Nanomedicine, 2010, 5, 397-408.	3.3	64
8	Ordered ferrimagnetic form of ferrihydrite reveals links among structure, composition, and magnetism. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2787-2792.	7.1	312
9	The influence of surface functionalization on the enhanced internalization of magnetic nanoparticles in cancer cells. Nanotechnology, 2009, 20, 115103.	2.6	299
10	Effect of Nanoparticle and Aggregate Size on the Relaxometric Properties of MR Contrast Agents Based on High Quality Magnetite Nanoparticles. Journal of Physical Chemistry B, 2009, 113, 7033-7039.	2.6	131
11	Cytokine adsorption/release on uniform magnetic nanoparticles for localized drug delivery. Journal of Controlled Release, 2008, 130, 168-174.	9.9	38
12	Effect of Nature and Particle Size on Properties of Uniform Magnetite and Maghemite Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 18577-18584.	3.1	278
13	Direct aerosol synthesis of carboxy-functionalized iron oxide colloids displaying reversible magnetic behavior. Journal of Colloid and Interface Science, 2007, 309, 68-71.	9.4	4
14	Spherical iron/silica nanocomposites from core-shell particles. Journal of Colloid and Interface Science, 2006, 294, 355-361.	9.4	25
15	chapter 5 Synthesis, Properties and Biomedical Applications of Magnetic Nanoparticles. Handbook of Magnetic Materials, 2006, 16, 403-482.	0.6	67
16	The influence of protective coatings on the magnetic properties of acicular iron nanoparticles. Nanotechnology, 2006, 17, 1421-1427.	2.6	5
17	Surface characterisation of dextran-coated iron oxide nanoparticles prepared by laser pyrolysis and coprecipitation. Journal of Magnetism and Magnetic Materials, 2005, 293, 20-27.	2.3	162
18	Metallic Nanomagnets Randomly Dispersed in Spherical Colloids: Toward a Universal Route for the Preparation of Colloidal Composites Containing Nanoparticles. Angewandte Chemie - International Edition, 2004, 43, 6304-6307.	13.8	26

#	ARTICLE	IF	CITATIONS
19	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
20	Yttria-Coated FeCo Magnetic Nanoneedles. <i>Chemistry of Materials</i> , 2004, 16, 3119-3124.	6.7	34
21	The preparation of magnetic nanoparticles for applications in biomedicine. <i>Journal Physics D: Applied Physics</i> , 2003, 36, R182-R197.	2.8	1,673
22	Synthesis of Monodisperse Superparamagnetic Fe/Silica Nanospherical Composites. <i>Journal of the American Chemical Society</i> , 2003, 125, 15754-15755.	13.7	242
23	Magnetic Behavior of $\hat{\text{I}}^3\text{-Fe}_2\text{O}_3$ Nanocrystals Dispersed in Colloidal Silica Particles. <i>Journal of Physical Chemistry B</i> , 2003, 107, 20-24.	2.6	80
24	Microemulsion-Assisted Synthesis of Tunable Superparamagnetic Composites. <i>Chemistry of Materials</i> , 2002, 14, 4396-4402.	6.7	97
25	Synthesis of Nanomagnets Dispersed in Colloidal Silica Cages with Applications in Chemical Separation. <i>Langmuir</i> , 2002, 18, 4556-4558.	3.5	80
26	Uniform colloidal particles in solution: Formation mechanisms. <i>Advanced Materials</i> , 1995, 7, 212-216.	21.0	188
27	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
28	Metastability of Tetragonal Zirconia Powders. <i>Journal of the American Ceramic Society</i> , 1985, 68, 135-139.	3.8	187