Carlos Martinez Boubeta

List of Publications by Year
in descending order

57	2,746	270111	198040
papers	citations	25 h-index	52 g-index

58	58	58	4178
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Airborne magnetic nanoparticles may contribute to COVID-19 outbreak: Relationships in Greece and Iran. Environmental Research, 2022, 204, 112054.	3.7	7
2	Magnetic nanoparticles: An indicator of health risks related to anthropogenic airborne particulate matter. Environmental Pollution, 2021, 271, 116309.	3.7	9
3	Mapping the Magnetic Coupling of Self-Assembled Fe3O4 Nanocubes by Electron Holography. Materials, 2021, 14, 774.	1.3	3
4	Finding the Limits of Magnetic Hyperthermia on Core-Shell Nanoparticles Fabricated by Physical Vapor Methods. Magnetochemistry, 2021, 7, 49.	1.0	9
5	Controlling Magnetization Reversal and Hyperthermia Efficiency in Coreâ€“Shell Ironâ€“Iron Oxide Magnetic Nanoparticles by Tuning the Interphase Coupling. ACS Applied Nano Materials, 2020, 3, 4465-4476.	2.4	42
6	Magnetic Nanoparticles for Water Purification. , 2019, , 521-552.		23
7	Implementing nanoparticles for competitive drinking water purification. Environmental Chemistry Letters, 2019, 17, 705-719.	8.3	28
8	Nanoparticles for Heavy Metal Removal from Drinking Water. Environmental Chemistry for A Sustainable World, 2018, , 75-124.	0.3	5
9	Regeneration of arsenic spent adsorbents by Fe/<scp>MgO</scp> nanoparticles. Journal of Chemical Technology and Biotechnology, 2017, 92, 1876-1883.	1.6	19
10	Fe₃O₄@NiFe_xO_y Nanoparticles with Enhanced Electrocatalytic Properties for Oxygen Evolution in Carbonate Electrolyte. ACS Applied Materials & Interfaces, 2016, 8, 29461-29469.	4.0	34
11	One-Step Route to Iron Oxide Hollow Nanocuboids by Cluster Condensation: Implementation in Water Remediation Technology. ACS Applied Materials & Interfaces, 2016, 8, 28599-28606.	4.0	17
12	A Single Picture Explains Diversity of Hyperthermia Response of Magnetic Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 15698-15706.	1.5	141
13	Magnetotransport properties of spin-valve structures with Mg spacer layers. Applied Physics Letters, 2015, 106, 032412.	1.5	1
14	Interfacial effects on the tunneling magnetoresistance in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>0.3</mml:mn></mml:mrow></mml:msub><mml:mi>Mn</mml:mi><mml:msu	1.1	9
15	Scaling up the production of magnetic nanoparticles for biomedical applications: cost-effective fabrication from basalts. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1053-1058.	0.8	2
16	Multiplying Magnetic Hyperthermia Response by Nanoparticle Assembling. Journal of Physical Chemistry C, 2014, 118, 5927-5934.	1.5	230
17	Tetravalent Manganese Feroxyhyte: A Novel Nanoadsorbent Equally Selective for As(III) and As(V) Removal from Drinking Water. Environmental Science & Technology, 2013, 47, 9699-9705.	4.6	89
18	Fe-based nanoparticles as tunable magnetic particle hyperthermia agents. Journal of Applied Physics, 2013, 114, .	1.1	52

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19	Learning from Nature to Improve the Heat Generation of Iron-Oxide Nanoparticles for Magnetic Hyperthermia Applications. Scientific Reports, 2013, 3, 1652.	1.6	442
20	On the changes at the Fe/MgO interface upon annealing. Journal of Applied Physics, 2013, 113, 123908.	1.1	5
21	Development of iron-based nanoparticles for Cr(VI) removal from drinking water. EPJ Web of Conferences, 2013, 40, 08007.	0.1	10
22	Magnetic Interfaces at the Nanoscale: From Fundamentals to Technological Applications. Journal of Nanomaterials, 2012, 2012, 1-1.	1.5	0
23	Interfacial geometry dependence of the iron magnetic moment: The case of MgO/Fe/MgO. Physical Review B, 2012, 85, .	1.1	14
24	Heteroepitaxial growth of MgO(111) thin films on Al<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>(0001): Evidence of a wurtzite to rocksalt transformation. Physical Review B, 2012, 86, .	1.1	15
25	Adjustable Hyperthermia Response of Selfâ€Assembled Ferromagnetic Feâ€MgO Coreâ€“Shell Nanoparticles by Tuning Dipoleâ€“Dipole Interactions. Advanced Functional Materials, 2012, 22, 3737-3744.	7.8	134
26	Morphology influence on nanoscale magnetism of Co nanoparticles: Experimental and theoretical aspects of exchange bias. Physical Review B, 2011, 84, .	1.1	44
27	Comment on â€œInversed tunneling magnetoresistance in hybrid FePt/Fe3O4 core/shell nanoparticles systemsâ€•[J. Appl. Phys. 108, 103905 (2010)]. Journal of Applied Physics, 2011, 109, 086101.	1.1	1
28	Resistance switching in transparent magnetic MgO films. Solid State Communications, 2011, 151, 1856-1859.	0.9	14
29	Magnetic separation of hematite-coated Fe3O4 particles used as arsenic adsorbents. Chemical Engineering Journal, 2011, 168, 1008-1015.	6.6	110
30	Thermal, dielectrical and mechanical response of Î± and Î²-poly(vinilydene fluoride)/Co-MgO nanocomposites. Nanoscale Research Letters, 2011, 6, 257.	3.1	18
31	In vitro application of Fe/MgO nanoparticles as magnetically mediated hyperthermia agents for cancer treatment. Journal of Magnetism and Magnetic Materials, 2011, 323, 775-780.	1.0	98
32	Blue luminescence at room temperature in defective MgO films. Solid State Communications, 2011, 151, 751-753.	0.9	28
33	Self-assembled multifunctional Fe/MgO nanospheres for magnetic resonance imaging and hyperthermia. Nanomedicine: Nanotechnology, Biology, and Medicine, 2010, 6, 362-370.	1.7	91
34	The effects of exchange bias on Feâ€“Co/MgO magnetic nanoparticles with core/shell morphology. Journal of Physics Condensed Matter, 2010, 22, 026004.	0.7	7
35	Ferromagnetism in transparent thin films of MgO. Physical Review B, 2010, 82, .	1.1	91
36	Aging of magnetic properties in MgO films. Applied Physics Letters, 2010, 97, 252503.	1.5	33

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37	Influence of dipolar interactions on hyperthermia properties of ferromagnetic particles. Journal of Applied Physics, 2010, 108, .	1.1	160
38	Epitaxial Integration of La_{2/3}Sr_{1/3}MnO₃ and Fe Films by the Use of a MgO Spacer. Crystal Growth and Design, 2010, 10, 1017-1020.	1.4	14
39	Tunneling spectroscopy in core/shell structured Fe/MgO nanospheres. Applied Physics Letters, 2009, 94, 062507.	1.5	11
40	Possible ferromagnetism in MgO. Solid State Communications, 2009, 149, 1654-1657.	0.9	60
41	Temperature dependence of the magnetoresistance in Fe/MgO core/shell nanoparticles. Applied Physics Letters, 2009, 94, 262507.	1.5	7
42	Effect of the bias current on the magnetic field switching in micrometer AlOx-based tunnel junctions. Journal of Applied Physics, 2007, 102, 043905.	1.1	2
43	Controlled synthesis and phase characterization of Fe-based nanoparticles obtained by thermal decomposition. Journal of Magnetism and Magnetic Materials, 2007, 316, e1-e4.	1.0	64
44	Critical radius for exchange bias in naturally oxidized Fe nanoparticles. Physical Review B, 2006, 74, .	1.1	104
45	Enhanced and oscillatory magnetoresistance of thin Fe(001) films. Applied Physics Letters, 2006, 88, 132511.	1.5	6
46	Coverage effects on the magnetism ofFeâ•MgO(001)ultrathin films. Physical Review B, 2005, 71, .	1.1	50
47	Spatial and chemical interface asymmetry in Fe/MgO/Fe(001) heterostructures. Journal of Applied Physics, 2005, 97, 036104.	1.1	8
48	Magneto-optical light scattering from ferromagnetic surfaces. Applied Physics Letters, 2003, 82, 421-423.	1.5	2
49	Magnetic coupling in epitaxial TM/MgO/Fe(001) (TM=FeCo, Fe/Co, Fe) macroscopic and microscopic trilayers. Journal of Applied Physics, 2003, 94, 4006-4012.	1.1	8
50	Magnetization reversal and magnetic anisotropies in epitaxial Fe/MgO and Fe/MgO/Fe heterostructures grown on Si(001). Journal of Applied Physics, 2003, 93, 2126-2134.	1.1	24
51	Epitaxy, magnetic and tunnel properties of transition metal/MgO(001) heterostructures. Journal of Physics Condensed Matter, 2003, 15, R1123-R1167.	0.7	32
52	Interplay between size and shape in the magnetic behaviour of epitaxial microtunnel junction arrays. Nanotechnology, 2003, 14, 492-496.	1.3	2
53	Anisotropy, hysteresis, and morphology of self-patterned epitaxial Fe/MgO/GaAs films. Physical Review B, 2002, 66, .	1.1	30
54	Magnetic coupling in epitaxial Fe/MgO/Fe microtunnel junction arrays. Nanotechnology, 2002, 13, 695-700.	1.3	7

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55	Magnetic proximity effect in Fe/Pt/Nb multilayers. Journal of Magnetism and Magnetic Materials, 2002, 240, 580-582.	1.0	15
56	Large magnetoresistance in Fe/MgO/FeCo(001) epitaxial tunnel junctions on GaAs(001). Applied Physics Letters, 2001, 79, 1655-1657.	1.5	229
57	Epitaxial Fe/MgO heterostructures on GaAs(001). Journal of Crystal Growth, 2001, 226, 223-230.	0.7	36