Manuel BaÃ±obre-LÃ³pez

List of Publications by Year
in descending order

90 papers	3,991 citations	126907 33 h-index	123424 61 g-index
93 all docs	93 docs citations	93 times ranked	6230 citing authors

#	Article	IF	Citations
1	Advances in Magnetic Nanoparticles for Biomedical Applications. Advanced Healthcare Materials, 2018, 7, 1700845.	7.6	453
2	Magnetic nanoparticle-based hyperthermia for cancer treatment. Reports of Practical Oncology and Radiotherapy, 2013, 18, 397-400.	0.6	427
3	Intrinsic magnetism and hyperthermia in bioactive Fe-doped hydroxyapatite. Acta Biomaterialia, 2012, 8, 843-851.	8.3	253
4	Large-Scale Synthesis of Colloidal Fe₃O₄ Nanoparticles Exhibiting High Heating Efficiency in Magnetic Hyperthermia. Journal of Physical Chemistry C, 2014, 118, 8691-8701.	3.1	226
5	Synthesis of Small Atomic Copper Clusters in Microemulsions. Langmuir, 2009, 25, 8208-8216.	3.5	168
6	Magnetic poly(Îµ-caprolactone)/iron-doped hydroxyapatite nanocomposite substrates for advanced bone tissue engineering. Journal of the Royal Society Interface, 2013, 10, 20120833.	3.4	168
7	The influence of colloidal parameters on the specific power absorption of PAA-coated magnetite nanoparticles. Nanoscale Research Letters, 2011, 6, 383.	5.7	139
8	PLGA-Based Composites for Various Biomedical Applications. International Journal of Molecular Sciences, 2022, 23, 2034.	4.1	99
9	A Systematic Study of the Structural and Magnetic Properties of Mn-, Co-, and Ni-Doped Colloidal Magnetite Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 11947-11957.	3.1	93
10	Poly(caprolactone) based magnetic scaffolds for bone tissue engineering. Journal of Applied Physics, 2011, 109, .	2.5	90
11	Organâ€onâ€aâ€Chip: A Preclinical Microfluidic Platform for the Progress of Nanomedicine. Small, 2020, 16, e2003517.	10.0	80
12	Superparamagnetic Nanocomposites Based on the Dispersion of Oleic Acid-Stabilized Magnetite Nanoparticles in a Diglycidylether of Bisphenol A-Based Epoxy Matrix: Magnetic Hyperthermia and Shape Memory. Journal of Physical Chemistry C, 2012, 116, 13421-13428.	3.1	75
13	Magnetic nanoparticles for application in cancer therapy. Journal of Magnetism and Magnetic Materials, 2012, 324, 3499-3502.	2.3	73
14	Recent Progress on Manganeseâ€Based Nanostructures as Responsive MRI Contrast Agents. Chemistry - A European Journal, 2019, 25, 431-441.	3.3	61
15	Magnetic Properties of Ni/NiO Nanowires Deposited onto CNT/Pt Nanocomposites. Advanced Functional Materials, 2008, 18, 616-621.	14.9	56
16	Hyperthermia Induced in Magnetic Scaffolds for Bone Tissue Engineering. IEEE Transactions on Magnetics, 2014, 50, 1-7.	2.1	56
17	Multifunctional graphene-based magnetic nanocarriers for combined hyperthermia and dual stimuli-responsive drug delivery. Materials Science and Engineering C, 2018, 93, 206-217.	7.3	56
18	Bacteriophages for Chronic Wound Treatment: From Traditional to Novel Delivery Systems. Viruses, 2020, 12, 235.	3.3	55

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19	Biomimetic Magnetic Silk Scaffolds. ACS Applied Materials & Interfaces, 2015, 7, 6282-6292.	8.0	52
20	Exploring the Potential of Starch/Polycaprolactone Aligned Magnetic Responsive Scaffolds for Tendon Regeneration. Advanced Healthcare Materials, 2016, 5, 213-222.	7.6	50
21	Highly Effective Antibacterial Vesicles Based on Peptide-Mimetic Alternating Copolymers for Bone Repair. Biomacromolecules, 2017, 18, 4154-4162.	5.4	50
22	Synthesis, Characterization, and Evaluation of Superparamagnetic Doped Ferrites as Potential Therapeutic Nanotools. Chemistry of Materials, 2020, 32, 2220-2231.	6.7	50
23	Hybrid, metal oxide-peptide amphiphile micelles for molecular magnetic resonance imaging of atherosclerosis. Journal of Nanobiotechnology, 2018, 16, 92.	9.1	47
24	Haemocompatibility of iron oxide nanoparticles synthesized for theranostic applications: a high-sensitivity microfluidic tool. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	46
25	Magnetite Nanoparticles for Stem Cell Labeling with High Efficiency and Long-Term in Vivo Tracking. Bioconjugate Chemistry, 2017, 28, 362-370.	3.6	41
26	Magnetic Dehydrodipeptide-Based Self-Assembled Hydrogels for Theragnostic Applications. Nanomaterials, 2019, 9, 541.	4.1	41
27	Tuning the relaxation rates of dual-mode T₁/T₂ nanoparticle contrast agents: a study into the ideal system. Nanoscale, 2015, 7, 16119-16128.	5.6	40
28	Effect of magnetic hyperthermia on the structure of biofilm and cellular viability of a food spoilage bacterium. Biofouling, 2013, 29, 1225-1232.	2.2	38
29	Sub-Micrometer Magnetic Nanocomposites: Insights into the Effect of Magnetic Nanoparticles Interactions on the Optimization of SAR and MRI Performance. ACS Applied Materials & Interfaces, 2016, 8, 25777-25787.	8.0	38
30	Role of Doping and Dimensionality in the Superconductivity of NaxCoO2. Chemistry of Materials, 2005, 17, 1965-1968.	6.7	37
31	Rapid Sonochemical Approach Produces Functionalized Fe₃O₄Nanoparticles with Excellent Magnetic, Colloidal, and Relaxivity Properties for MRI Application. Journal of Physical Chemistry C, 2017, 121, 24206-24222.	3.1	37
32	Smart magnetic resonance imaging-based theranostics for cancer. Theranostics, 2021, 11, 8706-8737.	10.0	37
33	Multilayered Magnetic Gelatin Membrane Scaffolds. ACS Applied Materials & Interfaces, 2015, 7, 23098-23109.	8.0	34
34	Xanthan-Fe₃O₄ Nanoparticle Composite Hydrogels for Non-Invasive Magnetic Resonance Imaging and Magnetically Assisted Drug Delivery. ACS Applied Nano Materials, 2021, 4, 7712-7729.	5.0	33
35	Targeting tumor cells and neovascularization using RGD-functionalized magnetoliposomes . International Journal of Nanomedicine, 2019, Volume 14, 5911-5924.	6.7	29
36	Tailoring the magnetic properties of nickel nanoshells through controlled chemical growth. Journal of Materials Chemistry, 2010, 20, 7360.	6.7	27

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37	Smart magnetic poly(N-isopropylacrylamide) to control the release of bio-active molecules. Journal of Materials Science: Materials in Medicine, 2014, 25, 2365-2371.	3.6	27
38	Design and validation of a new ratiometric intracellular pH imaging probe using lanthanide-doped upconverting nanoparticles. Dalton Transactions, 2017, 46, 13957-13965.	3.3	27
39	High-Temperature Magnetism as a Probe for Structural and Compositional Uniformity in Ligand-Capped Magnetite Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 28322-28329.	3.1	26
40	A colloidally stable water dispersion of Ni nanowires as an efficient T₂-MRI contrast agent. Journal of Materials Chemistry B, 2017, 5, 3338-3347.	5.8	26
41	A multifunctional nanomedicine platform for co-delivery of methotrexate and mild hyperthermia towards breast cancer therapy. Materials Science and Engineering C, 2020, 116, 111255.	7.3	26
42	A novel amino phosphonate-coated magnetic nanoparticle as MRI contrast agent. Applied Surface Science, 2021, 543, 148824.	6.1	26
43	Tunable Performance of Manganese Oxide Nanostructures as MRI Contrast Agents. Chemistry - A European Journal, 2018, 24, 1295-1303.	3.3	25
44	A Magnetic Chameleon: Biocompatible Lanthanide Fluoride Nanoparticles with Magnetic Field Dependent Tunable Contrast Properties as a Versatile Contrast Agent for Low to Ultrahigh Field MRI and Optical Imaging in Biological Window. Chemistry - A European Journal, 2018, 24, 7388-7397.	3.3	23
45	Influence of the separation procedure on the properties of magnetic nanoparticles: Gaining in vitro stability and T1â€“T2 magnetic resonance imaging performance. Journal of Colloid and Interface Science, 2016, 472, 229-236.	9.4	22
46	Dye-doped biodegradable nanoparticle SiO₂ coating on zinc- and iron-oxide nanoparticles to improve biocompatibility and for in vivo imaging studies. Nanoscale, 2020, 12, 6164-6175.	5.6	22
47	Green synthesis of multimodal â€˜OFFâ€“ONâ€™ activatable MRI/optical probes. Dalton Transactions, 2016, 45, 17672-17680.	3.3	20
48	Mapping intracellular thermal response of cancer cells to magnetic hyperthermia treatment. Nanoscale, 2020, 12, 21647-21656.	5.6	20
49	The clinical path to deliver encapsulated phages and lysins. FEMS Microbiology Reviews, 2021, 45, .	8.6	20
50	Magnetic lipid nanovehicles synergize the controlled thermal release of chemotherapeutics with magnetic ablation while enabling non-invasive monitoring by MRI for melanoma theranostics. Bioactive Materials, 2022, 8, 153-164.	15.6	20
51	Enhanced performance of cobalt ferrite encapsulated in graphitic shell by means of AC magnetically activated catalytic wet peroxide oxidation of 4-nitrophenol. Chemical Engineering Journal, 2019, 376, 120012.	12.7	17
52	Synthesis, characterization and in vitro validation of a magnetic zeolite nanocomposite with T₂-MRI properties towards theranostic applications. Journal of Materials Chemistry B, 2019, 7, 3351-3361.	5.8	15
53	Graphene-Based Magnetic Nanoparticles for Theranostics: An Overview for Their Potential in Clinical Application. Nanomaterials, 2021, 11, 1073.	4.1	15
54	Magnetoliposomes Based on Shape Anisotropic Calcium/Magnesium Ferrite Nanoparticles as Nanocarriers for Doxorubicin. Pharmaceutics, 2021, 13, 1248.	4.5	14

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55	Orthogonal Clickable Iron Oxide Nanoparticle Platform for Targeting, Imaging, and Onâ€Demand Release. Chemistry - A European Journal, 2018, 24, 8624-8631.	3.3	13
56	Magnetic Solid Nanoparticles and Their Counterparts: Recent Advances towards Cancer Theranostics. Pharmaceutics, 2022, 14, 506.	4.5	13
57	Magnetic Hybrid Wax Nanocomposites as Externally Controlled Theranostic Vehicles: High MRI Enhancement and Synergistic Magnetically Assisted Thermo/Chemo Therapy. Chemistry - A European Journal, 2020, 26, 4531-4538.	3.3	12
58	Evidence of weak ferromagnetism in chromium(III) oxide particles. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1547-1548.	2.3	11
59	Targeting Nanomaterials to Head and Neck Cancer Cells Using a Fragment of the Shiga Toxin as a Potent Natural Ligand. Cancers, 2021, 13, 4920.	3.7	11
60	Internalization studies on zeolite nanoparticles using human cells. Journal of Materials Chemistry B, 2018, 6, 469-476.	5.8	10
61	Magnetoliposomes as Contrast Agents for Longitudinal in vivo Assessment of Transplanted Pancreatic Islets in a Diabetic Rat Model. Scientific Reports, 2018, 8, 11487.	3.3	10
62	Effectiveness and Safety of a Nontargeted Boost for a CXCR4-Targeted Magnetic Hyperthermia Treatment of Cancer Cells. ACS Omega, 2019, 4, 1931-1940.	3.5	10
63	Effective production of multifunctional magnetic-sensitive biomaterial by an extrusion-based additive manufacturing technique. Biomedical Materials (Bristol), 2021, 16, 015011.	3.3	10
64	Magnetization Drop at High Temperature in Oleic Acid-Coated Magnetite Nanoparticles. IEEE Transactions on Magnetics, 2012, 48, 3307-3310.	2.1	9
65	Relevant Parameters for Magnetic Hyperthermia in Biological Applications: Agglomeration, Concentration, and Viscosity. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	9
66	Combining CXCR4-targeted and nontargeted nanoparticles for effective unassistedin vitromagnetic hyperthermia. Biointerphases, 2018, 13, 011005.	1.6	9
67	Antiphase boundaries in truncated octahedron-shaped Zn-doped magnetite nanocrystals. Journal of Materials Chemistry C, 2018, 6, 12800-12807.	5.5	9
68	Probing T₁â€“T₂ interactions and their imaging implications through a thermally responsive nanoprobe. Nanoscale, 2017, 9, 11318-11326.	5.6	8
69	Solid Lipid Particles for Lung Metastasis Treatment. Pharmaceutics, 2021, 13, 93.	4.5	8
70	Competing Magnetism and Superconductivity in NaxCoO2 at Half Doping. Journal of the American Chemical Society, 2009, 131, 9632-9633.	13.7	7
71	Control of Bacterial Cells Growths by Magnetic Hyperthermia. IEEE Transactions on Magnetics, 2013, 49, 3508-3511.	2.1	7
72	The Verwey transition in nanostructured magnetite produced by a combination of chimie douce and spark plasma sintering. Journal of Applied Physics, 2014, 115, 17E117.	2.5	7

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73	(Para)magnetic hybrid nanocomposites for dual MRI detection and treatment of solid tumours. Chemical Communications, 2020, 56, 8695-8698.	4.1	7
74	Magnetic Nanoparticles for Biomedical Applications. , 2014, , 457-493.		7
75	Antibiofilm Efficacy of the Pseudomonas aeruginosaÂPbunavirus vB_PaeM-SMS29 Loaded onto Dissolving Polyvinyl Alcohol Microneedles. Viruses, 2022, 14, 964.	3.3	7
76	Possible quantum criticality inNaxCoO2. Physical Review B, 2006, 73, .	3.2	6
77	Evaluation of Novel Doxorubicin-Loaded Magnetic Wax Nanocomposite Vehicles as Cancer Combinatorial Therapy Agents. Pharmaceutics, 2020, 12, 637.	4.5	6
78	Doxorubicin delivery performance of superparamagnetic carbon multi-core shell nanoparticles: pH dependence, stability and kinetic insight. Nanoscale, 2022, 14, 7220-7232.	5.6	6
79	Stimulation and Suppression of the Innate Immune System through Nanotechnology. ACS Applied Nano Materials, 2021, 4, 2303-2316.	5.0	5
80	Pseudomonas aeruginosa PAO 1 In Vitro Timeâ€“Kill Kinetics Using Single Phages and Phage Formulationsâ€”Modulating Death, Adaptation, and Resistance. Antibiotics, 2021, 10, 877.	3.7	5
81	A novel and extremely stable nanofluid based on iron oxide nanoparticles: Experimental investigations on the thermal performance. Thermal Science and Engineering Progress, 2021, 26, 101085.	2.7	5
82	A Tailor-Made Protocol to Synthesize Yolk-Shell Graphene-Based Magnetic Nanoparticles for Nanomedicine. Journal of Carbon Research, 2018, 4, 55.	2.7	4
83	Magnetic Nanocolloids. , 2016, , 75-129.		3
84	Preliminary Evaluation of Novel Triglyceride-Based Nanocomposites for Biomedical Applications. Journal of the Brazilian Chemical Society, 0, , .	0.6	3
85	Magnetic Field Mapping Around Individual Magnetic Nanoparticle Agglomerates Using Nitrogenâ€Vacancy Centers in Diamond. Particle and Particle Systems Characterization, 2021, 38, 2100011.	2.3	3
86	Questionable collapse of the bulk modulus in CrN. Nature Materials, 2010, 9, 284-284.	27.5	2
87	Tunable Performance of Manganese Oxide Nanostructures as MRI Contrast Agents. Chemistry - A European Journal, 2018, 24, 1221-1221.	3.3	2
88	Kinetic impact of Pt seed morphology on the highly controlled growth of Ni-based nanostructures. RSC Advances, 2015, 5, 52033-52040.	3.6	1
89	Experimental Studies of the Sedimentation, Stability and Thermal Conductivity of Two Different Nanofluids. Engineering Proceedings, 2021, 4, 35.	0.4	0
90	Innovative Biomimetic Hybrid Composites to Repair Multifunctional Anatomical Region. , 2010, , .		0