

Manuel Bañobre-López

List of Publications by Year in descending order

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90
papers

3,991
citations

136740

32
h-index

123241

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. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700845.	3.9	453
2	Magnetic nanoparticle-based hyperthermia for cancer treatment. <i>Reports of Practical Oncology and Radiotherapy</i> , 2013, 18, 397-400.	0.3	427
3	Intrinsic magnetism and hyperthermia in bioactive Fe-doped hydroxyapatite. <i>Acta Biomaterialia</i> , 2012, 8, 843-851.	4.1	253
4	Large-Scale Synthesis of Colloidal Fe ₃ O ₄ Nanoparticles Exhibiting High Heating Efficiency in Magnetic Hyperthermia. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8691-8701.	1.5	226
5	Synthesis of Small Atomic Copper Clusters in Microemulsions. <i>Langmuir</i> , 2009, 25, 8208-8216.	1.6	168
6	Magnetic poly(μ -caprolactone)/iron-doped hydroxyapatite nanocomposite substrates for advanced bone tissue engineering. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120833.	1.5	168
7	The influence of colloidal parameters on the specific power absorption of PAA-coated magnetite nanoparticles. <i>Nanoscale Research Letters</i> , 2011, 6, 383.	3.1	139
8	PLGA-Based Composites for Various Biomedical Applications. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2034.	1.8	99
9	A Systematic Study of the Structural and Magnetic Properties of Mn-, Co-, and Ni-Doped Colloidal Magnetite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11947-11957.	1.5	93
10	Poly(caprolactone) based magnetic scaffolds for bone tissue engineering. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	90
11	Organ-on-a-Chip: A Preclinical Microfluidic Platform for the Progress of Nanomedicine. <i>Small</i> , 2020, 16, e2003517.	5.2	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. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13421-13428.	1.5	75
13	Magnetic nanoparticles for application in cancer therapy. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3499-3502.	1.0	73
14	Recent Progress on Manganese-Based Nanostructures as Responsive MRI Contrast Agents. <i>Chemistry - A European Journal</i> , 2019, 25, 431-441.	1.7	61
15	Magnetic Properties of Ni/NiO Nanowires Deposited onto CNT/Pt Nanocomposites. <i>Advanced Functional Materials</i> , 2008, 18, 616-621.	7.8	56
16	Hyperthermia Induced in Magnetic Scaffolds for Bone Tissue Engineering. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-7.	1.2	56
17	Multifunctional graphene-based magnetic nanocarriers for combined hyperthermia and dual stimuli-responsive drug delivery. <i>Materials Science and Engineering C</i> , 2018, 93, 206-217.	3.8	56
18	Bacteriophages for Chronic Wound Treatment: From Traditional to Novel Delivery Systems. <i>Viruses</i> , 2020, 12, 235.	1.5	55

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19	Biomimetic Magnetic Silk Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6282-6292.	4.0	52
20	Exploring the Potential of Starch/Polycaprolactone Aligned Magnetic Responsive Scaffolds for Tendon Regeneration. <i>Advanced Healthcare Materials</i> , 2016, 5, 213-222.	3.9	50
21	Highly Effective Antibacterial Vesicles Based on Peptide-Mimetic Alternating Copolymers for Bone Repair. <i>Biomacromolecules</i> , 2017, 18, 4154-4162.	2.6	50
22	Synthesis, Characterization, and Evaluation of Superparamagnetic Doped Ferrites as Potential Therapeutic Nanotools. <i>Chemistry of Materials</i> , 2020, 32, 2220-2231.	3.2	50
23	Hybrid, metal oxide-peptide amphiphile micelles for molecular magnetic resonance imaging of atherosclerosis. <i>Journal of Nanobiotechnology</i> , 2018, 16, 92.	4.2	47
24	Haemocompatibility of iron oxide nanoparticles synthesized for theranostic applications: a high-sensitivity microfluidic tool. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	46
25	Magnetite Nanoparticles for Stem Cell Labeling with High Efficiency and Long-Term in Vivo Tracking. <i>Bioconjugate Chemistry</i> , 2017, 28, 362-370.	1.8	41
26	Magnetic Dehydrodiptide-Based Self-Assembled Hydrogels for Theragnostic Applications. <i>Nanomaterials</i> , 2019, 9, 541.	1.9	41
27	Tuning the relaxation rates of dual-mode T_1 / T_2 nanoparticle contrast agents: a study into the ideal system. <i>Nanoscale</i> , 2015, 7, 16119-16128.	2.8	40
28	Effect of magnetic hyperthermia on the structure of biofilm and cellular viability of a food spoilage bacterium. <i>Biofouling</i> , 2013, 29, 1225-1232.	0.8	38
29	Sub-Micrometer Magnetic Nanocomposites: Insights into the Effect of Magnetic Nanoparticles Interactions on the Optimization of SAR and MRI Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25777-25787.	4.0	38
30	Role of Doping and Dimensionality in the Superconductivity of $NaxCoO_2$. <i>Chemistry of Materials</i> , 2005, 17, 1965-1968.	3.2	37
31	Rapid Sonochemical Approach Produces Functionalized Fe_3O_4 Nanoparticles with Excellent Magnetic, Colloidal, and Relaxivity Properties for MRI Application. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24206-24222.	1.5	37
32	Smart magnetic resonance imaging-based theranostics for cancer. <i>Theranostics</i> , 2021, 11, 8706-8737.	4.6	37
33	Multilayered Magnetic Gelatin Membrane Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23098-23109.	4.0	34
34	Xanthan- Fe_3O_4 Nanoparticle Composite Hydrogels for Non-Invasive Magnetic Resonance Imaging and Magnetically Assisted Drug Delivery. <i>ACS Applied Nano Materials</i> , 2021, 4, 7712-7729.	2.4	33
35	<p>Targeting tumor cells and neovascularization using RGD-functionalized magnetoliposomes</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 5911-5924.	3.3	29
36	Tailoring the magnetic properties of nickel nanoshells through controlled chemical growth. <i>Journal of Materials Chemistry</i> , 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.	1.7	27
38	Design and validation of a new ratiometric intracellular pH imaging probe using lanthanide-doped upconverting nanoparticles. Dalton Transactions, 2017, 46, 13957-13965.	1.6	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.	1.5	26
40	A colloidally stable water dispersion of Ni nanowires as an efficient T ₂ -MRI contrast agent. Journal of Materials Chemistry B, 2017, 5, 3338-3347.	2.9	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.	3.8	26
42	A novel amino phosphonate-coated magnetic nanoparticle as MRI contrast agent. Applied Surface Science, 2021, 543, 148824.	3.1	26
43	Tunable Performance of Manganese Oxide Nanostructures as MRI Contrast Agents. Chemistry - A European Journal, 2018, 24, 1295-1303.	1.7	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.	1.7	23
45	Influence of the separation procedure on the properties of magnetic nanoparticles: Gaining in vitro stability and T ₁ -T ₂ magnetic resonance imaging performance. Journal of Colloid and Interface Science, 2016, 472, 229-236.	5.0	22
46	Dye-doped biodegradable nanoparticle SiO ₂ coating on zinc- and iron-oxide nanoparticles to improve biocompatibility and for <i>in vivo</i> imaging studies. Nanoscale, 2020, 12, 6164-6175.	2.8	22
47	Green synthesis of multimodal "OFF"ON™ activatable MRI/optical probes. Dalton Transactions, 2016, 45, 17672-17680.	1.6	20
48	Mapping intracellular thermal response of cancer cells to magnetic hyperthermia treatment. Nanoscale, 2020, 12, 21647-21656.	2.8	20
49	The clinical path to deliver encapsulated phages and lysins. FEMS Microbiology Reviews, 2021, 45, .	3.9	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.	8.6	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.	6.6	17
52	Synthesis, characterization and <i>in vitro</i> validation of a magnetic zeolite nanocomposite with T ₂ -MRI properties towards theranostic applications. Journal of Materials Chemistry B, 2019, 7, 3351-3361.	2.9	15
53	Graphene-Based Magnetic Nanoparticles for Theranostics: An Overview for Their Potential in Clinical Application. Nanomaterials, 2021, 11, 1073.	1.9	15
54	Magnetoliposomes Based on Shape Anisotropic Calcium/Magnesium Ferrite Nanoparticles as Nanocarriers for Doxorubicin. Pharmaceuticals, 2021, 13, 1248.	2.0	14

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55	Orthogonal Clickable Iron Oxide Nanoparticle Platform for Targeting, Imaging, and On-Demand Release. <i>Chemistry - A European Journal</i> , 2018, 24, 8624-8631.	1.7	13
56	Magnetic Solid Nanoparticles and Their Counterparts: Recent Advances towards Cancer Theranostics. <i>Pharmaceutics</i> , 2022, 14, 506.	2.0	13
57	Magnetic Hybrid Wax Nanocomposites as Externally Controlled Theranostic Vehicles: High MRI Enhancement and Synergistic Magnetically Assisted Thermo/Chemo Therapy. <i>Chemistry - A European Journal</i> , 2020, 26, 4531-4538.	1.7	12
58	Evidence of weak ferromagnetism in chromium(III) oxide particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1547-1548.	1.0	11
59	Targeting Nanomaterials to Head and Neck Cancer Cells Using a Fragment of the Shiga Toxin as a Potent Natural Ligand. <i>Cancers</i> , 2021, 13, 4920.	1.7	11
60	Internalization studies on zeolite nanoparticles using human cells. <i>Journal of Materials Chemistry B</i> , 2018, 6, 469-476.	2.9	10
61	Magnetoliposomes as Contrast Agents for Longitudinal in vivo Assessment of Transplanted Pancreatic Islets in a Diabetic Rat Model. <i>Scientific Reports</i> , 2018, 8, 11487.	1.6	10
62	Effectiveness and Safety of a Nontargeted Boost for a CXCR4-Targeted Magnetic Hyperthermia Treatment of Cancer Cells. <i>ACS Omega</i> , 2019, 4, 1931-1940.	1.6	10
63	Effective production of multifunctional magnetic-sensitive biomaterial by an extrusion-based additive manufacturing technique. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 015011.	1.7	10
64	Magnetization Drop at High Temperature in Oleic Acid-Coated Magnetite Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 3307-3310.	1.2	9
65	Relevant Parameters for Magnetic Hyperthermia in Biological Applications: Agglomeration, Concentration, and Viscosity. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-4.	1.2	9
66	Combining CXCR4-targeted and nontargeted nanoparticles for effective unassisted in vitro magnetic hyperthermia. <i>Biointerphases</i> , 2018, 13, 011005.	0.6	9
67	Antiphase boundaries in truncated octahedron-shaped Zn-doped magnetite nanocrystals. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12800-12807.	2.7	9
68	Probing T_1 - T_2 interactions and their imaging implications through a thermally responsive nanoprobe. <i>Nanoscale</i> , 2017, 9, 11318-11326.	2.8	8
69	Solid Lipid Particles for Lung Metastasis Treatment. <i>Pharmaceutics</i> , 2021, 13, 93.	2.0	8
70	Competing Magnetism and Superconductivity in $NaxCoO_2$ at Half Doping. <i>Journal of the American Chemical Society</i> , 2009, 131, 9632-9633.	6.6	7
71	Control of Bacterial Cells Growths by Magnetic Hyperthermia. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 3508-3511.	1.2	7
72	The Verwey transition in nanostructured magnetite produced by a combination of chimie douce and spark plasma sintering. <i>Journal of Applied Physics</i> , 2014, 115, 17E117.	1.1	7

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73	(Para)magnetic hybrid nanocomposites for dual MRI detection and treatment of solid tumours. <i>Chemical Communications</i> , 2020, 56, 8695-8698.	2.2	7
74	Magnetic Nanoparticles for Biomedical Applications. , 2014, , 457-493.		7
75	Antibiofilm Efficacy of the <i>Pseudomonas aeruginosa</i> Phage vB_PaeM-SMS29 Loaded onto Dissolving Polyvinyl Alcohol Microneedles. <i>Viruses</i> , 2022, 14, 964.	1.5	7
76	Possible quantum criticality in Na_xCoO_2 . <i>Physical Review B</i> , 2006, 73, .	1.1	6
77	Evaluation of Novel Doxorubicin-Loaded Magnetic Wax Nanocomposite Vehicles as Cancer Combinatorial Therapy Agents. <i>Pharmaceutics</i> , 2020, 12, 637.	2.0	6
78	Doxorubicin delivery performance of superparamagnetic carbon multi-core shell nanoparticles: pH dependence, stability and kinetic insight. <i>Nanoscale</i> , 2022, 14, 7220-7232.	2.8	6
79	Stimulation and Suppression of the Innate Immune System through Nanotechnology. <i>ACS Applied Nano Materials</i> , 2021, 4, 2303-2316.	2.4	5
80	<i>Pseudomonas aeruginosa</i> PAO 1 In Vitro Time-Kill Kinetics Using Single Phages and Phage Formulations Modulating Death, Adaptation, and Resistance. <i>Antibiotics</i> , 2021, 10, 877.	1.5	5
81	A novel and extremely stable nanofluid based on iron oxide nanoparticles: Experimental investigations on the thermal performance. <i>Thermal Science and Engineering Progress</i> , 2021, 26, 101085.	1.3	5
82	A Tailor-Made Protocol to Synthesize Yolk-Shell Graphene-Based Magnetic Nanoparticles for Nanomedicine. <i>Journal of Carbon Research</i> , 2018, 4, 55.	1.4	4
83	Magnetic Nanocolloids. , 2016, , 75-129.		3
84	Preliminary Evaluation of Novel Triglyceride-Based Nanocomposites for Biomedical Applications. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	3
85	Magnetic Field Mapping Around Individual Magnetic Nanoparticle Agglomerates Using Nitrogen Vacancy Centers in Diamond. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2100011.	1.2	3
86	Questionable collapse of the bulk modulus in CrN. <i>Nature Materials</i> , 2010, 9, 284-284.	13.3	2
87	Tunable Performance of Manganese Oxide Nanostructures as MRI Contrast Agents. <i>Chemistry - A European Journal</i> , 2018, 24, 1221-1221.	1.7	2
88	Kinetic impact of Pt seed morphology on the highly controlled growth of Ni-based nanostructures. <i>RSC Advances</i> , 2015, 5, 52033-52040.	1.7	1
89	Experimental Studies of the Sedimentation, Stability and Thermal Conductivity of Two Different Nanofluids. <i>Engineering Proceedings</i> , 2021, 4, 35.	0.4	0
90	Innovative Biomimetic Hybrid Composites to Repair Multifunctional Anatomical Region. , 2010, , .		0