

Olin Mefford

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

1,257
citations

22
h-index

34
g-index

49
ext. papers

1,400
ext. citations

6.2
avg, IF

4.31
L-index

#	Paper	IF	Citations
48	Monitoring pH-triggered drug release from radioluminescent nanocapsules with X-ray excited optical luminescence. <i>ACS Nano</i> , 2013 , 7, 1178-87	16.7	97
47	Iron-Loaded Magnetic Nanocapsules for pH-Triggered Drug Release and MRI Imaging. <i>Chemistry of Materials</i> , 2014 , 26, 2105-2112	9.6	71
46	Magnetic and optical properties of multifunctional core-shell radioluminescence nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12802-12809		64
45	The formation of linear aggregates in magnetic hyperthermia: implications on specific absorption rate and magnetic anisotropy. <i>Journal of Colloid and Interface Science</i> , 2014 , 424, 141-51	9.3	63
44	Synthesis of brightly PEGylated luminescent magnetic upconversion nanophosphors for deep tissue and dual MRI imaging. <i>Small</i> , 2014 , 10, 160-8	11	54
43	Stability of polydimethylsiloxane-magnetite nanoparticle dispersions against flocculation: interparticle interactions of polydisperse materials. <i>Langmuir</i> , 2008 , 24, 5060-9	4	52
42	Quantitative measurement of ligand exchange on iron oxides via radiolabeled oleic acid. <i>Langmuir</i> , 2014 , 30, 10918-25	4	49
41	Continuous synthesis of iron oxide (Fe ₃ O ₄) nanoparticles via thermal decomposition. <i>Particuology</i> , 2016 , 26, 47-53	2.8	48
40	Field-induced motion of ferrofluids through immiscible viscous media: Testbed for restorative treatment of retinal detachment. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 311, 347-353	2.8	47
39	Best Practices for Characterization of Magnetic Nanoparticles for Biomedical Applications. <i>Analytical Chemistry</i> , 2019 , 91, 14159-14169	7.8	46
38	Aqueous dispersions of magnetite nanoparticles complexed with copolyether dispersants: experiments and theory. <i>Langmuir</i> , 2007 , 23, 6927-36	4	46
37	Size Analysis of PDMS/Magnetite Nanoparticle Complexes: Experiment and Theory. <i>Chemistry of Materials</i> , 2008 , 20, 2184-2191	9.6	45
36	The effect of magnetically induced linear aggregates on proton transverse relaxation rates of aqueous suspensions of polymer coated magnetic nanoparticles. <i>Nanoscale</i> , 2013 , 5, 2152-63	7.7	43
35	Effect of bead milling on chemical and physical characteristics of activated carbons pulverized to superfine sizes. <i>Water Research</i> , 2016 , 89, 161-70	12.5	40
34	Quantitative Measurement of Ligand Exchange with Small-Molecule Ligands on Iron Oxide Nanoparticles via Radioanalytical Techniques. <i>Langmuir</i> , 2016 , 32, 13716-13727	4	40
33	Magnetic nanoparticles. <i>MRS Bulletin</i> , 2013 , 38, 899-903	3.2	37
32	Investigation of the stability of magnetite nanoparticles functionalized with catechol based ligands in biological media. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24909		33

31	Sensitive High Frequency AC Susceptometry in Magnetic Nanoparticle Applications 2010 ,		32
30	Multifunctional yolk-in-shell nanoparticles for pH-triggered drug release and imaging. <i>Small</i> , 2014 , 10, 3364-70	11	30
29	Targeted magnetic hyperthermia. <i>Therapeutic Delivery</i> , 2011 , 2, 815-38	3.8	30
28	Superfine powdered activated carbon (S-PAC) coatings on microfiltration membranes: Effects of milling time on contaminant removal and flux. <i>Water Research</i> , 2016 , 100, 429-438	12.5	30
27	Multianchored Glycoconjugate-Functionalized Magnetic Nanoparticles: A Tool for Selective Killing of Targeted Bacteria via Alternating Magnetic Fields. <i>Advanced Functional Materials</i> , 2017 , 27, 1701473	15.6	23
26	Influence of Ligand Precursor Molar Ratio on the Size Evolution of Modifiable Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5429-5435	3.8	17
25	Effect of Postsynthesis Purifications on Gold and Silver Nanoparticle Ligand Coverage. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 6842-6850	3.8	16
24	Discrete nanoparticles induce loss of Legionella pneumophila biofilms from surfaces. <i>Nanotoxicology</i> , 2014 , 8, 477-84	5.3	15
23	Highly scalable nanoparticle-polymer composite fiber via wet spinning. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 1975-1980	2.9	15
22	Magnetic-Field-Directed Self-Assembly of Programmable Mesoscale Shapes. <i>Advanced Functional Materials</i> , 2016 , 26, 3983-3989	15.6	15
21	The design of well-defined PDMS-Magnetite complexes. <i>Polymer</i> , 2010 , 51, 482-491	3.9	14
20	Production of monodispersed magnetic polymeric microspheres in a microfluidic chip and 3D simulation. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	13
19	All-nanoparticle concave diffraction grating fabricated by self-assembly onto magnetically-recorded templates. <i>Optics Express</i> , 2013 , 21, 1066-75	3.3	13
18	pH Triggered Recovery and Reuse of Thiolated Poly(acrylic acid) Functionalized Gold Nanoparticles with Applications in Colloidal Catalysis. <i>Langmuir</i> , 2017 , 33, 7642-7648	4	12
17	Bright X-ray and up-conversion nanophosphors annealed using encapsulated sintering agents for bioimaging applications. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5412-5424	7.3	11
16	Highly stable multi-anchored magnetic nanoparticles for optical imaging within biofilms. <i>Journal of Colloid and Interface Science</i> , 2015 , 459, 175-182	9.3	11
15	Silica coating of iron oxide magnetic nanoparticles by reverse microemulsion method and their functionalization with cationic polymer P(NIPAm-co-AMPTMA) for antibacterial vancomycin immobilization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 611, 125857	5.1	11
14	In vitro studies of heparin-coated magnetic nanoparticles for use in the treatment of neointimal hyperplasia. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 1191-1200	6	10

13	A versatile stable platform for multifunctional applications: synthesis of a nitroDOPA-PEO-alkyne scaffold for iron oxide nanoparticles. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 4789-4793	7.3	9
12	Synthesis and application of glycoconjugate-functionalized magnetic nanoparticles as potent anti-adhesion agents for reducing enterotoxigenic Escherichia coli infections. <i>Nanoscale</i> , 2015 , 7, 8326-317	7.7	8
11	The effect of post-synthesis aging on the ligand exchange activity of iron oxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2018 , 511, 374-382	9.3	8
10	Effect of infill on resulting mechanical properties of additive manufactured bioresorbable polymers for medical devices. <i>Materialia</i> , 2020 , 12, 100732	3.2	7
9	Real time monitoring of superparamagnetic nanoparticle self-assembly on surfaces of magnetic recording media. <i>Journal of Applied Physics</i> , 2014 , 115, 17B513	2.5	7
8	Synthesis of Self-Assembled Randomly Oriented VO Nanowires on a Glass Substrate by a Spin Coating Method. <i>Inorganic Chemistry</i> , 2020 , 59, 15707-15716	5.1	6
7	Extended LaMer Synthesis of Cobalt-Doped Ferrite. <i>IEEE Magnetics Letters</i> , 2018 , 9, 1-5	1.6	5
6	Physical transformations of iron oxide and silver nanoparticles from an intermediate scale field transport study. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	5
5	Investigation of the Etching of Silicon under Subcritical Water Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 173-181	3.9	3
4	Synthesis and Surface Functionalization of Ferrite Nanoparticles 2018 , 9-40		2
3	Manganese and cobalt substituted ferrite nanoparticles synthesized via a seed-mediated drip method. <i>JPhys Materials</i> , 2021 , 4, 034013	4.2	2
2	Ammonium Bisphosphonate Polymeric Magnetic Nanocomplexes for Platinum Anticancer Drug Delivery and Imaging with Potential Hyperthermia and Temperature-Dependent Drug Release. <i>Journal of Nanomaterials</i> , 2018 , 2018, 1-14	3.2	1
1	Oxidation of white rich iron oxide nanoparticles via post-synthesis annealing. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 539, 168405	2.8	1