

Olin Mefford

List of Publications by Year in descending order

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49
papers

1,548
citations

279487

23
h-index

301761

39
g-index

49
all docs

49
docs citations

49
times ranked

2798
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring pH-Triggered Drug Release from Radioluminescent Nanocapsules with X-ray Excited Optical Luminescence. ACS Nano, 2013, 7, 1178-1187.	7.3	110
2	Best Practices for Characterization of Magnetic Nanoparticles for Biomedical Applications. Analytical Chemistry, 2019, 91, 14159-14169.	3.2	87
3	Iron-Loaded Magnetic Nanocapsules for pH-Triggered Drug Release and MRI Imaging. Chemistry of Materials, 2014, 26, 2105-2112.	3.2	78
4	The formation of linear aggregates in magnetic hyperthermia: Implications on specific absorption rate and magnetic anisotropy. Journal of Colloid and Interface Science, 2014, 424, 141-151.	5.0	75
5	Continuous synthesis of iron oxide (Fe ₃ O ₄) nanoparticles via thermal decomposition. Particuology, 2016, 26, 47-53.	2.0	73
6	Magnetic and optical properties of multifunctional core-shell radioluminescence nanoparticles. Journal of Materials Chemistry, 2012, 22, 12802.	6.7	71
7	Synthesis of Brightly PEGylated Luminescent Magnetic Upconversion Nanophosphors for Deep Tissue and Dual MRI Imaging. Small, 2014, 10, 160-168.	5.2	61
8	Stability of Polydimethylsiloxane-Magnetite Nanoparticle Dispersions Against Flocculation: Interparticle Interactions of Polydisperse Materials. Langmuir, 2008, 24, 5060-5069.	1.6	56
9	Quantitative Measurement of Ligand Exchange on Iron Oxides via Radiolabeled Oleic Acid. Langmuir, 2014, 30, 10918-10925.	1.6	56
10	The effect of magnetically induced linear aggregates on proton transverse relaxation rates of aqueous suspensions of polymer coated magnetic nanoparticles. Nanoscale, 2013, 5, 2152-2163.	2.8	53
11	Field-induced motion of ferrofluids through immiscible viscous media: Testbed for restorative treatment of retinal detachment. Journal of Magnetism and Magnetic Materials, 2007, 311, 347-353.	1.0	52
12	Effect of bead milling on chemical and physical characteristics of activated carbons pulverized to superfine sizes. Water Research, 2016, 89, 161-170.	5.3	52
13	Magnetic nanoparticles. MRS Bulletin, 2013, 38, 899-903.	1.7	49
14	Quantitative Measurement of Ligand Exchange with Small-Molecule Ligands on Iron Oxide Nanoparticles via Radioanalytical Techniques. Langmuir, 2016, 32, 13716-13727.	1.6	49
15	Aqueous Dispersions of Magnetite Nanoparticles Complexed with Copolyether Dispersants: Experiments and Theory. Langmuir, 2007, 23, 6927-6936.	1.6	47
16	Size Analysis of PDMS-Magnetite Nanoparticle Complexes: Experiment and Theory. Chemistry of Materials, 2008, 20, 2184-2191.	3.2	47
17	Sensitive High Frequency AC Susceptometry in Magnetic Nanoparticle Applications. AIP Conference Proceedings, 2010, , .	0.3	39
18	Investigation of the stability of magnetite nanoparticles functionalized with catechol based ligands in biological media. Journal of Materials Chemistry, 2012, 22, 24909.	6.7	36

#	ARTICLE	IF	CITATIONS
19	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.	5.3	35
20	Targeted magnetic hyperthermia. <i>Therapeutic Delivery</i> , 2011, 2, 815-838.	1.2	33
21	Multifunctional Yolk-in-Shell Nanoparticles for pH-triggered Drug Release and Imaging. <i>Small</i> , 2014, 10, 3364-3370.	5.2	33
22	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.	2.3	29
23	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.	7.8	27
24	Magnetic-field-directed Self-assembly of Programmable Mesoscale Shapes. <i>Advanced Functional Materials</i> , 2016, 26, 3983-3989.	7.8	22
25	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.	1.6	19
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.	1.5	18
27	Effect of Postsynthesis Purifications on Gold and Silver Nanoparticle Ligand Coverage. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6842-6850.	1.5	18
28	Highly scalable nanoparticle-polymer composite fiber via wet spinning. <i>Journal of Applied Polymer Science</i> , 2013, 130, 1975-1980.	1.3	17
29	Discrete nanoparticles induce loss of <i>Legionella pneumophila</i> biofilms from surfaces. <i>Nanotoxicology</i> , 2014, 8, 477-484.	1.6	17
30	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.	2.9	17
31	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.	1.7	16
32	Effect of infill on resulting mechanical properties of additive manufactured bioresorbable polymers for medical devices. <i>Materialia</i> , 2020, 12, 100732.	1.3	16
33	The design of well-defined PDMS-Magnetite complexes. <i>Polymer</i> , 2010, 51, 482-491.	1.8	15
34	All-nanoparticle concave diffraction grating fabricated by self-assembly onto magnetically-recorded templates. <i>Optics Express</i> , 2013, 21, 1066.	1.7	15
35	Highly stable multi-anchored magnetic nanoparticles for optical imaging within biofilms. <i>Journal of Colloid and Interface Science</i> , 2015, 459, 175-182.	5.0	13
36	Production of monodispersed magnetic polymeric microspheres in a microfluidic chip and 3D simulation. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	1.0	13

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37	The effect of post-synthesis aging on the ligand exchange activity of iron oxide nanoparticles. Journal of Colloid and Interface Science, 2018, 511, 374-382.	5.0	12
38	Synthesis of Self-Assembled Randomly Oriented VO ₂ Nanowires on a Glass Substrate by a Spin Coating Method. Inorganic Chemistry, 2020, 59, 15707-15716.	1.9	12
39	Real time monitoring of superparamagnetic nanoparticle self-assembly on surfaces of magnetic recording media. Journal of Applied Physics, 2014, 115, 17B513.	1.1	10
40	A versatile stable platform for multifunctional applications: synthesis of a nitroDOPA-PEO-alkyne scaffold for iron oxide nanoparticles. Journal of Materials Chemistry B, 2014, 2, 4789-4793.	2.9	10
41	Synthesis and application of glycoconjugate-functionalized magnetic nanoparticles as potent anti-adhesion agents for reducing enterotoxigenic Escherichia coli infections. Nanoscale, 2015, 7, 8326-8331.	2.8	10
42	Oxidation of wüstite rich iron oxide nanoparticles via post-synthesis annealing. Journal of Magnetism and Magnetic Materials, 2021, 539, 168405.	1.0	7
43	Physical transformations of iron oxide and silver nanoparticles from an intermediate scale field transport study. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	6
44	Extended LaMer Synthesis of Cobalt-Doped Ferrite. IEEE Magnetics Letters, 2018, 9, 1-5.	0.6	6
45	Synthesis and Surface Functionalization of Ferrite Nanoparticles. , 2018, , 9-40.		4
46	Investigation of the Etching of Silicon under Subcritical Water Conditions. Industrial & Engineering Chemistry Research, 2014, 53, 173-181.	1.8	3
47	Manganese and cobalt substituted ferrite nanoparticles synthesized via a seed-mediated drip method. JPhys Materials, 2021, 4, 034013.	1.8	2
48	Ammonium Bisphosphonate Polymeric Magnetic Nanocomplexes for Platinum Anticancer Drug Delivery and Imaging with Potential Hyperthermia and Temperature-Dependent Drug Release. Journal of Nanomaterials, 2018, 2018, 1-14.	1.5	1
49	Assessing the Biocompatibility of Multi-Anchored Glycoconjugate Functionalized Iron Oxide Nanoparticles in a Normal Human Colon Cell Line CCD-18Co. Nanomaterials, 2021, 11, 2465.	1.9	1