

# Olin Mefford

## List of Publications by Year in Descending Order

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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	Manganese and cobalt substituted ferrite nanoparticles synthesized via a seed-mediated drip method. <i>JPhys Materials</i> , <b>2021</b> , 4, 034013	4.2	2
47	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> , <b>2021</b> , 611, 125857	5.1	11
46	Oxidation of wüstite rich iron oxide nanoparticles via post-synthesis annealing. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 539, 168405	2.8	1
45	Effect of infill on resulting mechanical properties of additive manufactured bioresorbable polymers for medical devices. <i>Materialia</i> , <b>2020</b> , 12, 100732	3.2	7
44	Synthesis of Self-Assembled Randomly Oriented VO Nanowires on a Glass Substrate by a Spin Coating Method. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 15707-15716	5.1	6
43	Best Practices for Characterization of Magnetic Nanoparticles for Biomedical Applications. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 14159-14169	7.8	46
42	Extended LaMer Synthesis of Cobalt-Doped Ferrite. <i>IEEE Magnetics Letters</i> , <b>2018</b> , 9, 1-5	1.6	5
41	In vitro studies of heparin-coated magnetic nanoparticles for use in the treatment of neointimal hyperplasia. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2018</b> , 14, 1191-1200	6	10
40	The effect of post-synthesis aging on the ligand exchange activity of iron oxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 511, 374-382	9.3	8
39	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> , <b>2018</b> , 2018, 1-14	3.2	1
38	Synthesis and Surface Functionalization of Ferrite Nanoparticles <b>2018</b> , 9-40		2
37	Multianchored Glycoconjugate-Functionalized Magnetic Nanoparticles: A Tool for Selective Killing of Targeted Bacteria via Alternating Magnetic Fields. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701473	15.6	23
36	Bright X-ray and up-conversion nanophosphors annealed using encapsulated sintering agents for bioimaging applications. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 5412-5424	7.3	11
35	pH Triggered Recovery and Reuse of Thiolated Poly(acrylic acid) Functionalized Gold Nanoparticles with Applications in Colloidal Catalysis. <i>Langmuir</i> , <b>2017</b> , 33, 7642-7648	4	12
34	Production of monodispersed magnetic polymeric microspheres in a microfluidic chip and 3D simulation. <i>Microfluidics and Nanofluidics</i> , <b>2016</b> , 20, 1	2.8	13
33	Effect of bead milling on chemical and physical characteristics of activated carbons pulverized to superfine sizes. <i>Water Research</i> , <b>2016</b> , 89, 161-70	12.5	40
32	Continuous synthesis of iron oxide (Fe <sub>3</sub> O <sub>4</sub> ) nanoparticles via thermal decomposition. <i>Particuology</i> , <b>2016</b> , 26, 47-53	2.8	48

31	Effect of Postsynthesis Purifications on Gold and Silver Nanoparticle Ligand Coverage. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 6842-6850	3.8	16
30	Magnetic-Field-Directed Self-Assembly of Programmable Mesoscale Shapes. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3983-3989	15.6	15
29	Quantitative Measurement of Ligand Exchange with Small-Molecule Ligands on Iron Oxide Nanoparticles via Radioanalytical Techniques. <i>Langmuir</i> , <b>2016</b> , 32, 13716-13727	4	40
28	Superfine powdered activated carbon (S-PAC) coatings on microfiltration membranes: Effects of milling time on contaminant removal and flux. <i>Water Research</i> , <b>2016</b> , 100, 429-438	12.5	30
27	Synthesis and application of glycoconjugate-functionalized magnetic nanoparticles as potent anti-adhesion agents for reducing enterotoxigenic Escherichia coli infections. <i>Nanoscale</i> , <b>2015</b> , 7, 8326-37	7	8
26	Highly stable multi-anchored magnetic nanoparticles for optical imaging within biofilms. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 459, 175-182	9.3	11
25	Physical transformations of iron oxide and silver nanoparticles from an intermediate scale field transport study. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	5
24	Iron-Loaded Magnetic Nanocapsules for pH-Triggered Drug Release and MRI Imaging. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 2105-2112	9.6	71
23	Multifunctional yolk-in-shell nanoparticles for pH-triggered drug release and imaging. <i>Small</i> , <b>2014</b> , 10, 3364-70	11	30
22	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> , <b>2014</b> , 2, 4789-4793	7.3	9
21	Investigation of the Etching of Silicon under Subcritical Water Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 173-181	3.9	3
20	The formation of linear aggregates in magnetic hyperthermia: implications on specific absorption rate and magnetic anisotropy. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 424, 141-51	9.3	63
19	Quantitative measurement of ligand exchange on iron oxides via radiolabeled oleic acid. <i>Langmuir</i> , <b>2014</b> , 30, 10918-25	4	49
18	Synthesis of brightly PEGylated luminescent magnetic upconversion nanophosphors for deep tissue and dual MRI imaging. <i>Small</i> , <b>2014</b> , 10, 160-8	11	54
17	Real time monitoring of superparamagnetic nanoparticle self-assembly on surfaces of magnetic recording media. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17B513	2.5	7
16	Discrete nanoparticles induce loss of Legionella pneumophila biofilms from surfaces. <i>Nanotoxicology</i> , <b>2014</b> , 8, 477-84	5.3	15
15	The effect of magnetically induced linear aggregates on proton transverse relaxation rates of aqueous suspensions of polymer coated magnetic nanoparticles. <i>Nanoscale</i> , <b>2013</b> , 5, 2152-63	7.7	43
14	Influence of Ligand Precursor Molar Ratio on the Size Evolution of Modifiable Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 5429-5435	3.8	17

13	Monitoring pH-triggered drug release from radioluminescent nanocapsules with X-ray excited optical luminescence. <i>ACS Nano</i> , <b>2013</b> , 7, 1178-87	16.7	97
12	Magnetic nanoparticles. <i>MRS Bulletin</i> , <b>2013</b> , 38, 899-903	3.2	37
11	All-nanoparticle concave diffraction grating fabricated by self-assembly onto magnetically-recorded templates. <i>Optics Express</i> , <b>2013</b> , 21, 1066-75	3.3	13
10	Highly scalable nanoparticle-polymer composite fiber via wet spinning. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 130, 1975-1980	2.9	15
9	Magnetic and optical properties of multifunctional core-shell radioluminescence nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 12802-12809		64
8	Investigation of the stability of magnetite nanoparticles functionalized with catechol based ligands in biological media. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 24909		33
7	Targeted magnetic hyperthermia. <i>Therapeutic Delivery</i> , <b>2011</b> , 2, 815-38	3.8	30
6	Sensitive High Frequency AC Susceptometry in Magnetic Nanoparticle Applications <b>2010</b> ,		32
5	The design of well-defined PDMS-Magnetite complexes. <i>Polymer</i> , <b>2010</b> , 51, 482-491	3.9	14
4	Stability of polydimethylsiloxane-magnetite nanoparticle dispersions against flocculation: interparticle interactions of polydisperse materials. <i>Langmuir</i> , <b>2008</b> , 24, 5060-9	4	52
3	Size Analysis of PDMS-Magnetite Nanoparticle Complexes: Experiment and Theory. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 2184-2191	9.6	45
2	Aqueous dispersions of magnetite nanoparticles complexed with copolyether dispersants: experiments and theory. <i>Langmuir</i> , <b>2007</b> , 23, 6927-36	4	46
1	Field-induced motion of ferrofluids through immiscible viscous media: Testbed for restorative treatment of retinal detachment. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 311, 347-353	2.8	47