Progress in applications of magnetic nanoparticles in bi

Journal Physics D: Applied Physics

42, 224001

DOI: 10.1088/0022-3727/42/22/224001

Citation Report

#	Article	IF	Citations
1	Harmonic phase angle as a concentrationâ€independent measure of nanoparticle dynamics. Medical Physics, 2010, 37, 2587-2592.	1.6	45
2	The effect of viscosity on the phase of the nanoparticle magnetization induced by a harmonic applied field. , 2010, , .		10
3	Synthesis and applications of magnetic nanoparticles for biorecognition and point of care medical diagnostics. Nanotechnology, 2010, 21, 442001.	1.3	117
4	Magnetic nanoparticles: biomedical applications and challenges. Journal of Materials Chemistry, 2010, 20, 8760.	6.7	350
5	Size-dependent magnetic parameters of fcc FePt nanoparticles: applications to magnetic hyperthermia. Journal Physics D: Applied Physics, 2010, 43, 145002.	1.3	61
7	Magnetic biosensor technologies for medical applications: a review. Medical and Biological Engineering and Computing, 2010, 48, 977-998.	1.6	186
8	Micro and nanotechnology for biological and biomedical applications. Medical and Biological Engineering and Computing, 2010, 48, 941-943.	1.6	34
9	Waterâ€Soluble Ultraâ€Small Manganese Oxide Surface Doped Gadolinium Oxide (Gd₂O₃@MnO) Nanoparticles for MRI Contrast Agent. European Journal of Inorganic Chemistry, 2010, 2010, 4555-4560.	1.0	38
10	Synthesis of Coâ€“Cuâ€“Zn doped Fe3O4 nanoparticles with tunable morphology and magnetic properties. Journal of Magnetism and Magnetic Materials, 2010, 322, 1985-1990.	1.0	24
11	The role of cell-released microvesicles in the intercellular transfer of magnetic nanoparticles in the monocyte/macrophage system. Biomaterials, 2010, 31, 7061-7069.	5.7	52
12	Superparamagnetic nanocomposite particles synthesized using the mini-emulsion technique. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 366, 113-119.	2.3	20
13	Nanosized magnetofluorescent Fe3O4â€“curcumin conjugate for multimodal monitoring and drug targeting. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 371, 104-112.	2.3	55
14	A twist on tumour targeting. Nature Materials, 2010, 9, 95-96.	13.3	16
15	Biomedical Applications of Magnetic Beads. TEION KOGAKU (Journal of Cryogenics and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.1	3
16	Hybrid biofunctional nanostructures as stimuli-responsive catalytic systems. Beilstein Journal of Organic Chemistry, 2010, 6, 922-931.	1.3	21
17	Multifunctional Nano and Microparticles for Drug Delivery Systems. Key Engineering Materials, 2010, 441, 333-355.	0.4	2
18	Biomedical and environmental applications of magnetic nanoparticles. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2010, 1, 045013.	0.7	13
19	Energy losses in interacting fine-particle magnetic composites. Journal Physics D: Applied Physics, 2010, 43, 474010.	1.3	40

#	Article	IF	Citations
20	Metamagnetism and nanosize effects in the magnetic properties of the quasi-two-dimensional system<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î²</mml:mi><mml:mtext>-Ni</mml:mtext><mml:msub><mml:mrow><mml:mrow><mml:mo>(Physical Review B, 2010, 82, .	1.1	33
21	Intra-luminal injection of ferro-fluid for magnetic bowel retraction in minimal access surgery. , 2010, , .		1
22	Nonlinear magnetization relaxation of superparamagnetic nanoparticles in superimposed ac and dc magnetic bias fields. Physical Review B, 2010, 82, .	1.1	35
23	Arrangement of FePt Nanocubes Utilizing Chemical Binding Selectivity. Journal of the Electrochemical Society, 2010, 157, D514.	1.3	4
24	Magnetic Biotransport: Analysis and Applications. Materials, 2010, 3, 2412-2446.	1.3	97
25	Magnetic labeling, imaging and manipulation of endothelial progenitor cells using iron oxide nanoparticles. Future Medicinal Chemistry, 2010, 2, 397-408.	1.1	31
26	Detection of endogenous magnetic nanoparticles with a tunnelling magneto resistance sensor. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 4371-4387.	1.6	5
27	Hydrophobic Gold Nanoparticle Self-Assembly with Phosphatidylcholine Lipid: Membrane-Loaded and Janus Vesicles. Nano Letters, 2010, 10, 3733-3739.	4.5	200
28	Low frequency hysteresis loops of superparamagnetic nanoparticles with uniaxial anisotropy. Journal of Applied Physics, 2010, 107, .	1.1	114
29	Surface activation and targeting strategies of superparamagnetic iron oxide nanoparticles in cancer-oriented diagnosis and therapy. Nanomedicine, 2010, 5, 109-133.	1.7	42
30	Degradability of superparamagnetic nanoparticles in a model of intracellular environment: follow-up of magnetic, structural and chemical properties. Nanotechnology, 2010, 21, 395103.	1.3	169
31	Effects of Mn concentration on the ac magnetically induced heating characteristics of superparamagnetic MnxZn1â^'xFe2O4 nanoparticles for hyperthermia. Applied Physics Letters, 2010, 96, .	1.5	24
32	Magnetic properties of iron nanoparticle. Journal of Applied Physics, 2010, 107, .	1.1	52
33	Synthesis of core-shell gold coated magnetic nanoparticles and their interaction with thiolated DNA. Nanoscale, 2010, 2, 2624.	2.8	195
34	Magnetic nanoparticles in biomedicine: synthesis, functionalization and applications. Nanomedicine, 2010, 5, 1401-1414.	1.7	136
35	Water-Soluble MnO Nanocolloid for a Molecular T₁ MR Imaging: A Facile One-Pot Synthesis, In vivo T₁ MR Images, and Account for Relaxivities. ACS Applied Materials & Interfaces, 2010, 2, 2949-2955.	4.0	92
36	Coreâ€“shell La _{1â^' x} Sr _x MnO ₃ nanoparticles as colloidal mediators for magnetic fluid hyperthermia. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 4389-4405.	1.6	37
37	Facile and solvent-free routes for the synthesis of size-controllable Fe 3 O 4 nanoparticles. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2010, 1, 035001.	0.7	15

#	Article	IF	Citations
38	Synthesis of nanoparticles for biomedical applications. Annual Reports on the Progress of Chemistry Section A, 2010, 106, 553.	0.8	66
39	CoFe₂O₄ and CoFe₂O₄/SiO₂ Core/Shell Nanoparticles: Magnetic and Spectroscopic Study. Chemistry of Materials, 2010, 22, 3353-3361.	3.2	160
40	Magnetic nanoparticle hyperthermia for prostate cancer. International Journal of Hyperthermia, 2010, 26, 790-795.	1.1	381
41	The effect of trapping superparamagnetic beads on domain wall motion. Applied Physics Letters, 2010, 96, 192503.	1.5	27
42	SPION@liposomes hybrid nanoarchitectures with high density SPION association. Soft Matter, 2011, 7, 6239.	1.2	26
43	Non-interacting hard ferromagnetic L10 FePt nanoparticles embedded in a carbon matrix. Journal of Materials Chemistry, 2011, 21, 18331.	6.7	10
44	Glyco-Nanomaterials: Translating Insights from the “Sugar-Code” to Biomedical Applications. Current Medicinal Chemistry, 2011, 18, 2060-2078.	1.2	76
45	The potential of magnetic nanocluster and dual-functional protein-based strategy for noninvasive detection of HBV surface antibodies. Analyst, The, 2011, 136, 679-683.	1.7	10
46	Enhanced Protection of Carbon-Encapsulated Magnetic Nickel Nanoparticles through a Sucrose-Based Synthetic Strategy. Journal of Physical Chemistry C, 2011, 115, 5294-5300.	1.5	34
47	Surface-Initiated Polymerization of 2-Hydroxyethyl Methacrylate from Heterotelechelic Oligoperoxide-Coated Î³-Fe₂O₃ Nanoparticles and their Engulfment by Mammalian Cells. Chemistry of Materials, 2011, 23, 2637-2649.	3.2	18
48	Stable and Water-Tolerant Ionic Liquid Ferrofluids. ACS Applied Materials & Interfaces, 2011, 3, 662-667.	4.0	70
49	Surface modification of graphite encapsulated iron nanoparticles by plasma processing. Diamond and Related Materials, 2011, 20, 359-363.	1.8	33
50	An induction heater device for studies of magnetic hyperthermia and specific absorption ratio measurements. Review of Scientific Instruments, 2011, 82, 114904.	0.6	30
51	Biosynthesis of Metallic Nanoparticles and Their Applications. Fundamental Biomedical Technologies, 2011, , 373-409.	0.2	3
52	Nanomechanics of magnetically driven cellular endocytosis. Applied Physics Letters, 2011, 99, .	1.5	41
53	Nonaqueous synthesis and magnetic properties of ZnFe2O4 nanocrystals with narrow size distributions. Journal of Applied Physics, 2011, 109, 07B511.	1.1	11
54	Superparamagnetic colloidal nanocrystalclusters coated with polyethylene glycol fumarate: a possible novel theranostic agent. Nanoscale, 2011, 3, 1022-1030.	2.8	56
55	Spectroscopic Study of Maghemite Nanoparticles Surface-Grafted with DMSA. Journal of Physical Chemistry A, 2011, 115, 1003-1008.	1.1	37

#	Article	IF	Citations
56	Hot-injection synthesis of iron/iron oxide core/shell nanoparticles for T2 contrast enhancement in magnetic resonance imaging. Chemical Communications, 2011, 47, 9221.	2.2	58
57	Non-aqueous synthesis of water-dispersible Fe₃O₄â€“Ca₃(PO₄)₂coreâ€“shell nanoparticles. Nanotechnology, 2011, 22, 055701.	1.3	13
58	Magnetic field control of fluorescent polymer nanorods. Nanotechnology, 2011, 22, 455704.	1.3	6
59	Synthesis of Magnetic Nanoparticles and Magnetic Fluids for Biomedical Applications. Else-KrÃ¶ner-Fresenius-Symposia, 2011, , 35-52.	0.1	7
60	Local Cancer Therapy with Magnetic Nanoparticles. Else-KrÃ¶ner-Fresenius-Symposia, 2011, , 154-164.	0.1	2
61	Nanomagnetism reveals the intracellular clustering of iron oxide nanoparticles in the organism. Nanoscale, 2011, 3, 4402.	2.8	57
62	Hyperthermic effects of dissipative structures of magnetic nanoparticles in large alternating magnetic fields. Scientific Reports, 2011, 1, 157.	1.6	166
63	Nanoparticles with targeting, triggered release, and imaging functionality for cancer applications. Soft Matter, 2011, 7, 839-856.	1.2	113
64	Cell sorting by endocytotic capacity in a microfluidic magnetophoresis device. Lab on A Chip, 2011, 11, 1902.	3.1	130
65	Functionalized Biocompatible Nanoparticles for Site-Specific Imaging and Therapeutics. Advances in Polymer Science, 2011, , 233-275.	0.4	6
66	Development of Stable, Water-Dispersible, and Biofunctionalizable Superparamagnetic Iron Oxide Nanoparticles. Chemistry of Materials, 2011, 23, 2795-2802.	3.2	84
67	Single crystal EPR study at 95 GHz of a large Fe based molecular nanomagnet: toward the structuring of magnetic nanoparticle properties. Dalton Transactions, 2011, 40, 8145.	1.6	19
68	Role of the poly-dispersity and the dipolar interaction in magnetic nanoparticle systems: Monte Carlo study. Journal of Non-Crystalline Solids, 2011, 357, 996-999.	1.5	4
69	A Facile Synthesis, In vitro and In vivo MR Studies of <scp>d</scp>-Glucuronic Acid-Coated Ultrasmall Ln₂O₃ (Ln = Eu, Gd, Dy, Ho, and Er) Nanoparticles as a New Potential MRI Contrast Agent. ACS Applied Materials & Interfaces, 2011, 3, 3325-3334.	4.0	133
70	Surface Functionalization of Graphene Layer-Encapsulated Magnetic Nanoparticles by Inductively Coupled Plasma. Advanced Materials Research, 2011, 222, 134-137.	0.3	2
71	Synthesis and bio-functionalization of magnetic nanoparticles for medical diagnosis and treatment. Dalton Transactions, 2011, 40, 6315.	1.6	243
72	Single Step Hybrid Coating Process to Enhance the Electrosteric Stabilization of Inorganic Particles. Langmuir, 2011, 27, 6622-6627.	1.6	20
73	Hybrid Magnetic Nanoparticles for Targeted Delivery. , 2011, , 575-593.		2

#	Article	IF	Citations
74	Electron Holography of Magnetic Materials. , 0, , .		15
75	Magnetic and Multifunctional Magnetic Nanoparticles in Nanomedicine: Challenges and Trends in Synthesis and Surface Engineering for Diagnostic and Therapy Applications. , 0, , .		5
76	Magnetic Nanoparticles in Brain Disease Diagnosis and Targeting Drug Delivery. Current Nanoscience, 2011, 7, 37-46.	0.7	14
77	GMR Biosensors for Clinical Diagnostics. , 0, , .		9
78	Fe3O4/o-Carboxymethyl Chitosan/Curcumin-based Nanodrug System for Chemotherapy and Fluorescence Imaging in HT29 Cancer Cell Line. Chemistry Letters, 2011, 40, 1264-1266.	0.7	10
79	Magnetic nanoparticles: study of magnetic heating and adsorption/desorption for biomedical and environmental applications. International Journal of Nanotechnology, 2011, 8, 399.	0.1	17
80	Temperature and size dependence of magnetic and electron magnetic resonance parameters of Fe nanoparticles embedded in an amorphous SiO2 matrix. Journal of Applied Physics, 2011, 109, 07B506.	1.1	4
81	Characterizing longitudinal and transverse relaxation rates of ferrofluids in microtesla magnetic fields. Journal of Applied Physics, 2011, 110, .	1.1	12
82	Magnetic properties of (Fe, Feâ€“B)/Î³-Fe2O3 core shell nanostructure. Journal of Physics and Chemistry of Solids, 2011, 72, 1373-1376.	1.9	8
83	A biotechnological perspective on the application of iron oxide magnetic colloids modified with polysaccharides. Biotechnology Advances, 2011, 29, 142-155.	6.0	307
84	Fe3O4 nanostructures: synthesis, growth mechanism, properties and applications. Chemical Communications, 2011, 47, 5130.	2.2	269
85	The synthesis and bio-applications of magnetic and fluorescent bifunctional composite nanoparticles. Analyst, The, 2011, 136, 1783.	1.7	64
86	Diverging Geometric and Magnetic Size Distributions of Iron Oxide Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 14598-14605.	1.5	81
87	Manganite perovskite nanoparticles for self-controlled magnetic fluid hyperthermia: about the suitability of an aqueous combustion synthesis route. Journal of Materials Chemistry, 2011, 21, 4393.	6.7	77
88	Synthesis, characterization and functionalization of nearly mono-disperse copper ferrite CuxFe3â”xO4 nanoparticles. Journal of Materials Chemistry, 2011, 21, 6909.	6.7	25
89	Stabilization and functionalization of iron oxide nanoparticles for biomedical applications. Nanoscale, 2011, 3, 2819.	2.8	360
90	Simple and fast preparation of pure maghemite nanopowders through solâ€“gel self-combustion. Journal of Sol-Gel Science and Technology, 2011, 60, 266-274.	1.1	22
91	Evidence for magnetic interactions among magnetite nanoparticles dispersed in photoreticulated PEGDA-600 matrix. Journal of Nanoparticle Research, 2011, 13, 5615-5626.	0.8	37

#	Article	IF	Citations
92	Preparation and characterization of magnetic nanoparticles with controlled magnetization. Journal of Nanoparticle Research, 2011, 13, 4357-4369.	0.8	19
93	Carbonyl groups anchoring for the water dispersibility of magnetite nanoparticles. Colloid and Polymer Science, 2011, 289, 361-369.	1.0	14
95	Focusing microparticles in a microfluidic channel with ferrofluids. Microfluidics and Nanofluidics, 2011, 11, 695-701.	1.0	63
96	Mesoporous polystyrene nanoparticles synthesized by semicontinuous heterophase polymerization. Polymer Bulletin, 2011, 67, 217-226.	1.7	9
97	Click assembly of magnetic nanovectors for gene delivery. Biomaterials, 2011, 32, 2683-2688.	5.7	15
98	Doxorubicin Release Triggered by Alginate Embedded Magnetic Nanoheaters: A Combined Therapy. Advanced Materials, 2011, 23, 787-790.	11.1	169
99	Nanoscale Materials for Tackling Brain Cancer: Recent Progress and Outlook. Advanced Materials, 2011, 23, H136-50.	11.1	52
100	NMR Relaxation of Water in Nanostructures: Analysis of Ferromagnetic Cobalt-Ferrite Polyelectrolyte Nanocomposites. ChemPhysChem, 2011, 12, 772-776.	1.0	19
103	Simple Synthesis and Functionalization of Iron Nanoparticles for Magnetic Resonance Imaging. Angewandte Chemie - International Edition, 2011, 50, 4206-4209.	7.2	148
104	Conversion of Magnetic Impulses into Cellular Responses by Selfâ€Assembled Nanoparticleâ€“Vesicle Hydrogels. Angewandte Chemie - International Edition, 2011, 50, 12290-12293.	7.2	20
105	In situ synthesis of polysaccharide nanoparticles via polyion complex of carboxymethyl cellulose and chitosan. Colloids and Surfaces B: Biointerfaces, 2011, 85, 343-348.	2.5	64
106	Long term in vivo biotransformation of iron oxide nanoparticles. Biomaterials, 2011, 32, 3988-3999.	5.7	303
107	Spin-glass behavior of the polyvinyl pyrrolidone-protected Prussian blue analog K1.14Mn[Fe(CN)6]0.88 nanocubes. Physica B: Condensed Matter, 2011, 406, 2528-2531.	1.3	3
108	Evidence of ferrimagnetism in ferromagnetic La0.67Ca0.33MnO3 nanoparticle. Journal of Magnetism and Magnetic Materials, 2011, 323, 311-315.	1.0	54
109	Theoretical modelling of physiologically stretched vessel in magnetisable stent assisted magnetic drug targetingapplication. Journal of Magnetism and Magnetic Materials, 2011, 323, 324-329.	1.0	22
110	In vitro application of Fe/MgO nanoparticles as magnetically mediated hyperthermia agents for cancer treatment. Journal of Magnetism and Magnetic Materials, 2011, 323, 775-780.	1.0	98
111	ZnFe2O4 nanoparticles for ferrofluids: A combined XANES and XRD study. Journal of Magnetism and Magnetic Materials, 2011, 323, 1203-1206.	1.0	47
112	Magnetic characterization of surface-coated magnetic nanoparticles for biomedical application. Journal of Magnetism and Magnetic Materials, 2011, 323, 1398-1403.	1.0	85

#	Article	IF	Citations
113	Thermomagnetic determination of Fe3O4 magnetic nanoparticle diameters for biomedical applications. Journal of Magnetism and Magnetic Materials, 2011, 323, 2310-2317.	1.0	24
114	Design of water-based ferrofluids as contrast agents for magnetic resonance imaging. Journal of Colloid and Interface Science, 2011, 357, 50-55.	5.0	47
115	Note: Detection of a single cobalt microparticle with a microfabricated atomic magnetometer. Review of Scientific Instruments, 2011, 82, 086112.	0.6	25
116	Nonlinear stationary ac response of the magnetization of uniaxial superparamagnetic nanoparticles. Journal of Applied Physics, 2011, 110, .	1.1	24
117	Injectable nanotechnology. , 2011, , 298-322.		1
118	MULTIFUNCTIONAL NANOâ€“BIO MATERIALS WITHIN CELLULAR MACHINERY. International Journal of Nanoscience, 2011, 10, 899-908.	0.4	9
119	Focusing microparticles in a microfluidic channel with ferrofluids. , 2011, , .		1
120	Magnetic nanoparticle heating efficiency reveals magneto-structural differences when characterized with wide ranging and high amplitude alternating magnetic fields. Journal of Applied Physics, 2011, 109, .	1.1	131
121	Hysteresis losses in a dense superparamagnetic nanoparticle assembly. AIP Advances, 2012, 2, .	0.6	34
122	Longitudinal dynamic hysteresis in single-domain particles. Journal of Applied Physics, 2012, 111, 07D121.	1.1	23
123	Magnetic Nanoparticle Imaging Using Harmonic Signals. IEEE Transactions on Magnetics, 2012, 48, 3776-3779.	1.2	22
124	Evaluation of Harmonic Signals for the Detection of Magnetic Nanoparticles. IEEE Transactions on Magnetics, 2012, 48, 3788-3791.	1.2	22
125	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>1</mml:mn></mml:msup></mml:math>H-NMR study of the spin dynamics of fine superparamagnetic nanoparticles. Physical Review B, 2012, 85, .	1.1	12
126	Transport of particles by magnetic forces and cellular blood flow in a model microvessel. Physics of Fluids, 2012, 24, .	1.6	37
127	Effects of loading procedures of magnetic nanoparticles on the structure and physicochemical properties of cisplatin magnetic liposomes. Journal of Microencapsulation, 2012, 29, 781-789.	1.2	8
128	On the energy conversion efficiency in magnetic hyperthermia applications: A new perspective to analyze the departure from the linear regime. Journal of Applied Physics, 2012, 111, .	1.1	25
129	Influence of the magnetization damping on dynamic hysteresis loops in single domain particles. Journal of Applied Physics, 2012, 111, 043901.	1.1	15
130	Protein Cage Magnetic Nanoparticles. , 2012, , 73-98.		1

#	Article	IF	Citations
131	Towards Control of Magnetic Fluids in Patients: Directing Therapeutic Nanoparticles to Disease Locations. IEEE Control Systems, 2012, 32, 32-74.	1.0	81
132	Death by magnetism. Nature Materials, 2012, 11, 1006-1008.	13.3	15
133	Microfabricated magnetic structures for future medicine: from sensors to cell actuators. Nanomedicine, 2012, 7, 1611-1624.	1.7	52
134	Low-temperature Plasma Processing of Micro- and Nanostructured Materials for Biomedical Applications. Materials Research Society Symposia Proceedings, 2012, 1469, 31.	0.1	1
135	Polymeric Nanoparticles, Magnetic Nanoparticles and Quantum Dots: Current and Future Perspectives. , 2012, , 99-149.		0
136	Structural and magnetic properties of mesoporous SiO2 nanoparticles impregnated with iron oxide or cobalt-iron oxide nanocrystals. Journal of Materials Chemistry, 2012, 22, 19276.	6.7	35
137	Photothermal Microscopy of the Core of Dextran-Coated Iron Oxide Nanoparticles During Cell Uptake. ACS Nano, 2012, 6, 5961-5971.	7.3	53
138	Thermal fluctuations of magnetic nanoparticles: Fifty years after Brown. Journal of Applied Physics, 2012, 112, .	1.1	206
139	Adaptive Control of Excitation Coil Arrays for Targeted Magnetic Nanoparticle Reconstruction Using Magnetorelaxometry. IEEE Transactions on Magnetics, 2012, 48, 2842-2845.	1.2	21
140	Formation of Nonequilibrium Magnetic Nanoparticle Structures in a Large Alternating Magnetic Field and Their Influence on Magnetic Hyperthermia Treatment. IEEE Transactions on Magnetics, 2012, 48, 3258-3261.	1.2	3
141	Multifunctional Ferromagnetic Disks for Modulating Cell Function. IEEE Transactions on Magnetics, 2012, 48, 3269-3274.	1.2	27
142	Characterizing the field-dependent T1-relaxation and imaging of ferrofluids using high-Tc superconducting quantum interference device magnetometer in low magnetic fields. Journal of Applied Physics, 2012, 112, .	1.1	3
143	Ni@Fe2O3 heterodimers: controlled synthesis and magnetically recyclable catalytic application for dehalogenation reactions. Nanoscale, 2012, 4, 4571.	2.8	21
144	Investigating the Parameters Affecting the Stability of Superparamagnetic Iron Oxide-Loaded Nanoemulsion Using Artificial Neural Networks. AAPS PharmSciTech, 2012, 13, 1386-1395.	1.5	14
145	Field, force and transport analysis for magnetic particle-based gene delivery. Microfluidics and Nanofluidics, 2012, 13, 589-602.	1.0	37
146	Preparation of hydrosol suspensions of elemental and coreâ€“shell nanoparticles by co-deposition with water vapour from the gas-phase in ultra-high vacuum conditions. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	33
147	Asymmetric flow field-flow fractionation of superferrimagnetic iron oxide multicore nanoparticles. Nanotechnology, 2012, 23, 355701.	1.3	14
148	Cell targeting by antibody-functionalized calcium phosphatenanoparticles. Journal of Materials Chemistry, 2012, 22, 396-404.	6.7	97

#	Article	IF	Citations
149	Facile synthesis of complex multi-component organic and organicâ€“magnetic inorganic nanocomposite particles. Journal of Materials Chemistry, 2012, 22, 24744.	6.7	20
150	A T1, T2 magnetic resonance imaging (MRI)-fluorescent imaging (FI) by using ultrasmall mixed gadoliniumâ€“europium oxide nanoparticles. New Journal of Chemistry, 2012, 36, 2361.	1.4	34
151	A theoretical study on photomagnetic fluorescent protein chromophore coupled diradicals and their possible applications. Physical Chemistry Chemical Physics, 2012, 14, 6905.	1.3	11
152	Ferrohydrodynamic evaluation of rotational viscosity and relaxation in certain ferrofluids. Physical Review E, 2012, 86, 016324.	0.8	7
153	Size-controlled preparation of magnetic iron oxidenanocrystals within hyperbranched polymers and their magnetofection in vitro. Journal of Materials Chemistry, 2012, 22, 355-360.	6.7	25
154	Superparamagnetic blocking and superspin-glass freezing in ultra small Î´-(Fe0.67Mn0.33)OOH particles. Physical Chemistry Chemical Physics, 2012, 14, 3162.	1.3	40
155	Influence of Protected Annealing on the Magnetic Properties of Î³-Fe₂O₃ Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 16311-16318.	1.5	28
156	Damping dependence in dynamic magnetic hysteresis of single-domain ferromagnetic particles. Physical Review B, 2012, 85, .	1.1	20
157	Enhancing cancer therapeutics using size-optimized magnetic fluid hyperthermia. Journal of Applied Physics, 2012, 111, 07B306.	1.1	53
158	Modeling and Development of a Biosensor Based on Optical Relaxation Measurements of Hybrid Nanoparticles. ACS Nano, 2012, 6, 791-801.	7.3	44
159	One-Step Method for Preparation of Magnetic Nanoparticles Coated with Chitosan. Journal of Nanomaterials, 2012, 2012, 1-8.	1.5	118
160	Magnetic nanoparticles: an emerging technology for malignant brain tumor imaging and therapy. Expert Review of Clinical Pharmacology, 2012, 5, 173-186.	1.3	114
161	Monosaccharides versus PEG-Functionalized NPs: Influence in the Cellular Uptake. ACS Nano, 2012, 6, 1565-1577.	7.3	131
162	Amorphous Slater-Pauling like behaviour in magnetic nanoparticles alloys synthesized in liquids. Journal of Applied Physics, 2012, 112, 063910.	1.1	2
163	Preparation of Ni0.5Zn0.5Fe2O4/SiO2 nanocomposites and their adsorption of bovine serum albumin. Journal of Alloys and Compounds, 2012, 511, 163-168.	2.8	19
164	Reducing Taylor dispersion in capillary laminar flows using magnetically excited nanoparticles: Nanomixing mechanism for micro/nanoscale applications. Chemical Engineering Journal, 2012, 203, 492-498.	6.6	26
165	Surface Coatings Shape the Protein Corona of SPIONs with Relevance to Their Application in Vivo. Langmuir, 2012, 28, 14983-14991.	1.6	136
166	Characterization of hybrid cobalt-porous silicon systems: protective effect of the Matrix in the metal oxidation. Nanoscale Research Letters, 2012, 7, 495.	3.1	6

#	Article	IF	Citations
167	Magnetic nanoparticle-based approaches to locally target therapy and enhance tissue regenerationin vivo. Nanomedicine, 2012, 7, 1425-1442.	1.7	196
168	Dynamics of magnetic nanoparticle in a viscous liquid: Application to magnetic nanoparticle hyperthermia. Journal of Applied Physics, 2012, 112, .	1.1	147
169	Controlled synthesis of uniform magnetite nanocrystals with high-quality properties for biomedical applications. Journal of Materials Chemistry, 2012, 22, 21065.	6.7	141
170	Raman Spectroscopy of Iron Oxide Nanoparticles. , 2012, , 379-416.		32
171	Coupled stochastic dynamics of magnetic moment and anisotropy axis of a magnetic nanoparticle. Physical Review E, 2012, 86, 061405.	0.8	11
172	Nanomagnetic Sensing of Blood Plasma Protein Interactions with Iron Oxide Nanoparticles: Impact on Macrophage Uptake. ACS Nano, 2012, 6, 2665-2678.	7.3	154
174	The influence of a demagnetizing field on hysteresis losses in a dense assembly of superparamagnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2012, 324, 3690-3694.	1.0	18
175	Fluorescent Magnetic Nanoparticles for Magnetically Enhanced Cancer Imaging and Targeting in Living Subjects. ACS Nano, 2012, 6, 6862-6869.	7.3	79
176	Emergence of Multicolor Photoluminescence in La_{0.67}Sr_{0.33}MnO₃ Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 25623-25629.	1.5	37
177	Paramagnetic nanoparticle T1 and T2 MRI contrast agents. Physical Chemistry Chemical Physics, 2012, 14, 12687.	1.3	135
178	Adapting source grid parameters to improve the condition of the magnetostatic linear inverse problem of estimating nanoparticle distributions. Medical and Biological Engineering and Computing, 2012, 50, 1081-1089.	1.6	12
179	Synthesis of Magnetic Nanocrystals by Thermal Decomposition in Glycol Media: Effect of Process Variables and Mechanistic Study. Industrial & Engineering Chemistry Research, 2012, 51, 8348-8357.	1.8	43
180	Elucidating the morphological and structural evolution of iron oxide nanoparticles formed by sodium carbonate in aqueous medium. Journal of Materials Chemistry, 2012, 22, 12498.	6.7	93
181	Electroless Synthesis of Metallic Nanostructures for Biomedical Technologies. Modern Aspects of Electrochemistry, 2012, , 73-99.	0.2	1
182	Iron oxide-based conjugates for cancer theragnostics. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2012, 3, 033001.	0.7	17
183	Study of the magnetic microstructure of Ni/NiO nanogranular samples above the electric percolation threshold by magnetoresistance measurements. Journal of Physics Condensed Matter, 2012, 24, 306004.	0.7	6
184	Therapeutic Applications. , 2012, , 285-313.		6
185	Structure and Magnetic Properties of Aerosol Nanoparticles of Fe and Its Alloys. International Journal of Inorganic Chemistry, 2012, 2012, 1-43.	0.6	5

#	Article	IF	Citations
186	Principles and emerging applications of nanomagnetic materials in medicine. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2012, 4, 345-365.	3.3	24
187	Quantitative Measurement of the Magnetic Moment of Individual Magnetic Nanoparticles by Magnetic Force Microscopy. Small, 2012, 8, 2675-2679.	5.2	73
188	Transient magnetic birefringence for determining magnetic nanoparticle diameters in dense, highly light scattering media. Nanotechnology, 2012, 23, 155501.	1.3	9
189	Phosphonates, their complexes and bio-applications: A spectrum of surprising diversity. Coordination Chemistry Reviews, 2012, 256, 105-124.	9.5	125
190	Water-Soluble Iron Oxide Nanocubes with High Values of Specific Absorption Rate for Cancer Cell Hyperthermia Treatment. ACS Nano, 2012, 6, 3080-3091.	7.3	638
191	Characterization of Magnetic Markers for Liquid-Phase Immunoassays Using Brownian Relaxation. Japanese Journal of Applied Physics, 2012, 51, 023002.	0.8	11
192	Magnetic fluid dynamics in a rotating magnetic field. Journal of Applied Physics, 2012, 111, .	1.1	39
193	Manganese iron oxide superparamagnetic powder by mechanochemical processing. Nanoparticles functionalization and dispersion in a nanofluid. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	20
194	Exploring the Effect of Co Doping in Fine Maghemite Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 8261-8270.	1.5	84
195	Design of Vesicles Using Capillary Microfluidic Devices: From Magnetic to Multifunctional Vesicles. Advanced Materials, 2012, 24, 3544-3548.	11.1	37
196	How cellular processing of superparamagnetic nanoparticles affects their magnetic behavior and NMR relaxivity. Contrast Media and Molecular Imaging, 2012, 7, 373-383.	0.4	59
197	Nanoparticles for cancer therapy using magnetic forces. Nanomedicine, 2012, 7, 447-457.	1.7	77
198	Stoichiometry Dependence on the Diameter of La2/3Ca1/3MnO3 Manganite Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1611-1617.	0.8	2
199	Force Dependent Internalization of Magnetic Nanoparticles Results in Highly Loaded Endothelial Cells for Use as Potential Therapy Delivery Vectors. Pharmaceutical Research, 2012, 29, 1270-1281.	1.7	16
200	A Model for Predicting Field-Directed Particle Transport in the Magnetofection Process. Pharmaceutical Research, 2012, 29, 1366-1379.	1.7	22
201	On the motion of superparamagnetic particles in magnetic drug targeting. Acta Mechanica, 2012, 223, 505-527.	1.1	26
202	Plasma-activated immobilization of biomolecules onto graphite-encapsulated magnetic nanoparticles. Carbon, 2012, 50, 1253-1261.	5.4	51
203	Dissipative particle dynamics simulation of poly(ethylene oxide)â€“poly(ethyl ethylene) block copolymer properties for enhancement of cell membrane rupture under stress. Chemical Engineering Science, 2012, 71, 400-408.	1.9	11

#	Article	IF	Citations
204	Cellulose-precursor synthesis of nanocrystalline Co0.5Cu0.5Fe2O4 spinel ferrites. Materials Research Bulletin, 2012, 47, 473-477.	2.7	25
205	Ferrite-based magnetic nanofluids used in hyperthermia applications. Journal of Magnetism and Magnetic Materials, 2012, 324, 903-915.	1.0	620
206	Advancements in Magnetic Nanoparticle Reconstruction Using Sequential Activation of Excitation Coil Arrays Using Magnetorelaxometry. IEEE Transactions on Magnetics, 2012, 48, 1313-1316.	1.2	36
207	Size-Dependent Mechanisms in AC Magnetic Hyperthermia Response of Iron-Oxide Nanoparticles. IEEE Transactions on Magnetics, 2012, 48, 1320-1323.	1.2	124
208	Tailored magnetic nanoparticles for optimizing magnetic fluid hyperthermia. Journal of Biomedical Materials Research - Part A, 2012, 100A, 728-737.	2.1	100
209	Comparison of complex permittivities of isotonic colloids containing singleâ€wall carbon nanotubes of varying chirality. Bioelectromagnetics, 2012, 33, 134-146.	0.9	2
210	Effects of particleâ€“fluid coupling on particle transport and capture in a magnetophoretic microsystem. Microfluidics and Nanofluidics, 2012, 12, 565-580.	1.0	54
211	Colloidal stability, surface characterisation and intracellular accumulation of Rhodium(II) citrate coated superparamagnetic iron oxide nanoparticles in breast tumour: a promising platform for cancer therapy. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	11
212	Magnetic properties study of iron-oxide nanoparticles/PVA ferrogels with potential biomedical applications. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	41
213	Physical Parameters to Enhance AC Magnetically Induced Heating Power of Ferrite Nanoparticles for Hyperthermia in Nanomedicine. IEEE Nanotechnology Magazine, 2013, 12, 314-322.	1.1	17
214	Study of Magnetothermal Properties of Strontium Doped Lanthanum Manganite Nanoparticles for Hyperthermia Applications. IEEE Transactions on Magnetics, 2013, 49, 3504-3507.	1.2	17
215	Nanostructures for magnetically triggered release of drugs and biomolecules. Current Opinion in Colloid and Interface Science, 2013, 18, 459-467.	3.4	59
216	One-step synthesis of zinc ferrite nanoparticles by ultrasonic wave-assisted ball milling technology. Ceramics International, 2013, 39, 4669-4672.	2.3	11
217	Study of specific absorption rate of strontium doped lanthanum manganite nanoparticles for self-controlled hyperthermia applications. Journal of Magnetism and Magnetic Materials, 2013, 347, 39-44.	1.0	25
218	Synthesis and characterization of PEG-iron oxide core-shell composite nanoparticles for thermal therapy. Materials Science and Engineering C, 2013, 33, 4660-4666.	3.8	25
219	Magnetic nanoparticle heating and heat transfer on a microscale: Basic principles, realities and physical limitations of hyperthermia for tumour therapy. International Journal of Hyperthermia, 2013, 29, 790-800.	1.1	392
220	Magnetic nanoparticles (MNPs) covalently coated by PEOâ€“PPOâ€“PEO block copolymer for drug delivery. Journal of Colloid and Interface Science, 2013, 395, 50-57.	5.0	58
221	Cubic Magnetically Guided Nanoaggregates for Inhalable Drug Delivery: In Vitro Magnetic Aerosol Deposition Study. AAPS PharmSciTech, 2013, 14, 977-993.	1.5	5

#	Article	IF	Citations
222	Correlation of biocapping agents with cytotoxic effects of silver nanoparticles on human tumor cells. RSC Advances, 2013, 3, 14329.	1.7	27
223	Core/shell magnetism in NiO nanoparticles. Journal of Applied Physics, 2013, 114, .	1.1	44
224	Calibration of a Quasi-Adiabatic Magneto-Thermal Calorimeter Used to Characterize Magnetic Nanoparticle Heating. Journal of Nanotechnology in Engineering and Medicine, 2013, 4, .	0.8	15
225	Relationship between physico-chemical properties of magnetic fluids and their heating capacity. International Journal of Hyperthermia, 2013, 29, 768-776.	1.1	53
226	Hybrid nanostructured coating for increased resistance of prosthetic devices to staphylococcal colonization. Nanoscale Research Letters, 2013, 8, 6.	3.1	26
227	Magnetic fluid hyperthermia: Advances, challenges, and opportunity. International Journal of Hyperthermia, 2013, 29, 706-714.	1.1	220
228	Differences in magnetic particle uptake by CNS neuroglial subclasses: implications for neural tissue engineering. Nanomedicine, 2013, 8, 951-968.	1.7	37
229	Thermal potentiation of chemotherapy by magnetic nanoparticles. Nanomedicine, 2013, 8, 1689-1707.	1.7	112
230	Surface coating of Al nanoparticles by using a wet ball milling method: A facile synthesis and characterization of colloidal stability. Current Applied Physics, 2013, 13, 1218-1224.	1.1	6
231	Contrast agents for MRI. Materials Science and Engineering C, 2013, 33, 4485-4497.	3.8	160
232	Structure and magnetism in Fe/FexPd1â^'xcore/shell nanoparticles formed by alloying in Pd-embedded Fe nanoparticles. Journal of Physics Condensed Matter, 2013, 25, 386004.	0.7	7
233	Synthesis and functionalisation of magnetic nanoparticles for hyperthermia applications. International Journal of Hyperthermia, 2013, 29, 777-789.	1.1	70
234	Physics of heat generation using magnetic nanoparticles for hyperthermia. International Journal of Hyperthermia, 2013, 29, 715-729.	1.1	279
235	Chitosan coating of copper nanoparticles reducesin vitrotoxicity and increases inflammation in the lung. Nanotechnology, 2013, 24, 395101.	1.3	73
236	Magnetism in nanoparticles: tuning properties with coatings. Journal of Physics Condensed Matter, 2013, 25, 484006.	0.7	46
237	Magnetic properties of mixed Ising nanoparticles with core-shell structure. European Physical Journal B, 2013, 86, 1.	0.6	65
238	Fabrication, Characterization, and Evaluation in Drug Release Properties of Magnetoactive Poly(ethylene oxide)â€“Poly(<scp>l</scp>-lactide) Electrospun Membranes. Biomacromolecules, 2013, 14, 4436-4446.	2.6	37
239	A novel solvethermal method for the preparation of magnetic monodisperse Fe3O4 nanoparticles II: High-surface-activity ferrihydrite used as precursor. Materials Research Bulletin, 2013, 48, 4385-4389.	2.7	5

#	Article	IF	Citations
240	Inverted Linear Halbach Array for Separation of Magnetic Nanoparticles. IEEE Transactions on Magnetics, 2013, 49, 3449-3452.	1.2	14
241	Receptor-Targeted, Magneto-Mechanical Stimulation of Osteogenic Differentiation of Human Bone Marrow-Derived Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2013, 14, 19276-19293.	1.8	63
242	Carbodiimide versus Click Chemistry for Nanoparticle Surface Functionalization: A Comparative Study for the Elaboration of Multimodal Superparamagnetic Nanoparticles Targeting Î±_vÎ²₃ Integrins. Langmuir, 2013, 29, 14639-14647.	1.6	61
243	Size-dependent shifts of the NÃ©el temperature and optical band-gap in NiO nanoparticles. Journal of Applied Physics, 2013, 114, .	1.1	71
244	Magnetic Nanoparticles for Targeted Cancer Diagnosis and Therapy. Frontiers of Nanoscience, 2013, , 29-63.	0.3	13
245	Fabrication of bifunctional core-shell Fe3O4 particles coated with ultrathin phosphor layer. Nanoscale Research Letters, 2013, 8, 357.	3.1	24
246	Brownian motion in a viscoelastic medium modelled by a Jeffreys fluid. Soft Matter, 2013, 9, 10857.	1.2	35
247	A protected annealing process for the production of high quality colloidal oxidenanoparticles with optimized physical properties. Journal of Materials Chemistry C, 2013, 1, 13-22.	2.7	15
248	Size-dependent magnetophoresis of native single super-paramagnetic nanoparticles in a microchip. Chemical Communications, 2013, 49, 7298.	2.2	5
249	Intrinsically green iron oxide nanoparticles? From synthesis via (eco-)toxicology to scenario modelling. Nanoscale, 2013, 5, 1034-1046.	2.8	24
250	Composition- and Phase-Controlled High-Magnetic-Moment Fe$_{1 - {m x}}$Co$_{m x}$ Nanoparticles for Biomedical Applications. IEEE Transactions on Magnetics, 2013, 49, 197-200.	1.2	14
251	Thermal Properties of Magnetic Nanoparticles Modified With Polyethylene Glycol. IEEE Transactions on Magnetics, 2013, 49, 236-239.	1.2	8
252	Tissue Model for the Study of Heat Transition During Magnetic Heating Treatment. IEEE Transactions on Magnetics, 2013, 49, 244-249.	1.2	17
253	A Magnetoresponsive Drug Delivery System via eta-Cyclodextrin Functionalized Magnetic Polymer Brushes. IEEE Transactions on Magnetics, 2013, 49, 364-372.	1.2	9
254	Magnetite nanoparticles as-prepared and dispersed in Copaiba oil: study using magnetic measurements and MÃ¶ssbauer spectroscopy. Hyperfine Interactions, 2013, 219, 19-24.	0.2	7
255	Size dependence study of the ordering temperature in the Fast Monte Carlo method. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	5
256	Nonlinear susceptibility and dynamic hysteresis loops of magnetic nanoparticles with biaxial anisotropy. Journal of Applied Physics, 2013, 113, .	1.1	14
257	Functionalizing Nanoparticles with Biological Molecules: Developing Chemistries that Facilitate Nanotechnology. Chemical Reviews, 2013, 113, 1904-2074.	23.0	1,173

#	Article	IF	Citations
258	Rational surface modification of Mn3O4 nanoparticles to induce multiple photoluminescence and room temperature ferromagnetism. Journal of Materials Chemistry C, 2013, 1, 1885.	2.7	76
259	Suitability of Viability Assays for Testing Biological Effects of Coated Superparamagnetic Nanoparticles. IEEE Transactions on Magnetics, 2013, 49, 383-388.	1.2	16
260	Structural and magnetic study of zinc-doped magnetite nanoparticles and ferrofluids for hyperthermia applications. Journal Physics D: Applied Physics, 2013, 46, 125006.	1.3	51
261	A Rapid Assay to Measure the Shielding of Iron Oxide Cores by the Particle Shell. IEEE Transactions on Magnetics, 2013, 49, 177-181.	1.2	5
262	Comparison of Strain-Promoted Alkyne-Azide Cycloaddition <newline/>With Established Methods for Conjugation of <newline/>Biomolecules to Magnetic Nanoparticles. IEEE Transactions on Magnetics, 2013, 49, 172-176.	1.2	9
263	Multifunctional Carboxymethyl Cellulose-Based Magnetic Nanovector as a Theragnostic System for Folate Receptor Targeted Chemotherapy, Imaging, and Hyperthermia against Cancer. Langmuir, 2013, 29, 3453-3466.	1.6	88
264	Composite magneticâ€“plasmonic nanoparticles for biomedicine: Manipulation and imaging. Nano Today, 2013, 8, 98-113.	6.2	93
265	Synthesis, stability, cellular uptake, and blood circulation time of carboxymethyl-inulin coated magnetic nanoparticles. Journal of Materials Chemistry B, 2013, 1, 2807.	2.9	38
266	The random dipolar-field approximation for systems of interacting magnetic particles. Journal of Applied Physics, 2013, 113, .	1.1	25
267	Quantitative Recovery of Magnetic Nanoparticles from Flowing Blood: Trace Analysis and the Role of Magnetization. Advanced Functional Materials, 2013, 23, 4888-4896.	7.8	23
268	Synthesis and characterization of magnetoliposomes for MRI contrast enhancement. International Journal of Pharmaceutics, 2013, 446, 183-190.	2.6	36
269	Recent advances in multifunctional magnetic nanoparticles and applications to biomedical diagnosis and treatment. RSC Advances, 2013, 3, 10598.	1.7	87
270	Magnetic Nanoparticles for Magnetic Resonance Imaging and Hyperthermia Applications. , 2013, , 99-129.		4
271	Magnetic Nanoparticle Hyperthermia Treatment of Tumours. Springer Series in Materials Science, 2013, , 197-215.	0.4	18
272	Novel magnetic nanomaterials inspired by magnetotactic bacteria: Topical review. Materials Science and Engineering Reports, 2013, 74, 133-172.	14.8	124
273	The effect of organics on the structure and magnetization of electro-synthesised magnetite nanoparticles. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	23
274	Quantitative estimation of magnetic nanoparticle distributions in one dimension using low-frequency continuous wave electron paramagnetic resonance. Journal Physics D: Applied Physics, 2013, 46, 245002.	1.3	6
275	Adsorption characteristics of methyl blue onto magnetic Ni0.5Zn0.5Fe2O4 nanoparticles prepared by the rapid combustion process. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	35

#	Article	IF	Citations
276	Hybrid iron oxide-copolymer micelles and vesicles as contrast agents for MRI: impact of the nanostructure on the relaxometric properties. Journal of Materials Chemistry B, 2013, 1, 5317.	2.9	56
277	AC Magnetic Technique to Measure Specific Absorption Rate of Magnetic Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2013, 26, 857-860.	0.8	14
278	Properties of Dense Assemblies of Magnetic Nanoparticles Promising for Application in Biomedicine. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1079-1083.	0.8	13
279	Mesoporous silicananoparticles for the design of smart delivery nanodevices. Biomaterials Science, 2013, 1, 114-134.	2.6	224
280	Double-walled hollow polymeric microspheres with independent pH and temperature dual-responsive and magnetic-targeting function from onion-shaped coreâ€“shell structures. Colloids and Surfaces B: Biointerfaces, 2013, 102, 1-8.	2.5	23
281	Simple models for the heating curve in magnetic hyperthermia experiments. Journal of Magnetism and Magnetic Materials, 2013, 326, 14-21.	1.0	29
282	Heating ability of Laâ€“Srâ€“Mnâ€“Cu perovskite spheres under an alternating current magnetic field for magnetic hyperthermia mediators. Journal of Magnetism and Magnetic Materials, 2013, 329, 49-52.	1.0	11
283	Tunable synthesis and multifunctionalities of Fe3O4â€“ZnO hybrid core-shell nanocrystals. Materials Research Bulletin, 2013, 48, 551-558.	2.7	45
284	The role of cobalt ferrite magnetic nanoparticles in medical science. Materials Science and Engineering C, 2013, 33, 1-8.	3.8	413
285	Comparative study of iron oxide nanoparticles as-prepared and dispersed in Copaiba oil using MÃ¶ssbauer spectroscopy with low and high velocity resolution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 100, 94-100.	2.0	12
286	Introduction of Cobalt Ions in Î³-Fe₂O₃Nanoparticles by Direct Coprecipitation or Postsynthesis Adsorption: Dopant Localization and Magnetic Anisotropy. Journal of Physical Chemistry C, 0, , 130918100525007.	1.5	2
288	Projection Reconstruction Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2013, 32, 338-347.	5.4	70
289	Statistical investigation of efficiency of the nanomagnetic particle steering in blood vessels. , 2013, , .		3
290	Magnetic ordering of nickel hydroxide layers 30 â„« apart obtained by intercalating dodecyl sulfate. Journal of Physics Condensed Matter, 2013, 25, 356001.	0.7	9
291	Magnetite/Polypyrrole Hybrid Nanocomposites as a Promising Magnetic Resonance Imaging Contrast Material. Journal of Applied Polymer Science, 2013, 128, 3170-3176.	1.3	18
292	Magnetic nanoparticles. MRS Bulletin, 2013, 38, 899-903.	1.7	49
293	Magnetic Force-Based Tissue Engineering and Regenerative Medicine. Journal of Biomedical Nanotechnology, 2013, 9, 1129-1136.	0.5	43
294	Structure and magnetism of dilute Co(Zr) nanoclusters. Journal of Applied Physics, 2013, 113, .	1.1	7

#	Article	IF	Citations
295	Coupled particleâ€“fluid transport and magnetic separation in microfluidic systems with passive magnetic functionality. Journal Physics D: Applied Physics, 2013, 46, 125002.	1.3	34
296	Influence of Growth Conditions on Magnetite Nanoparticles Electro-Crystallized in the Presence of Organic Molecules. International Journal of Molecular Sciences, 2013, 14, 10383-10396.	1.8	26
297	Recent Advances in Understanding Magnetic Nanoparticles in AC Magnetic Fields and Optimal Design for Targeted Hyperthermia. Journal of Nanomaterials, 2013, 2013, 1-17.	1.5	72
298	Tumour Cell Labelling by Magnetic Nanoparticles with Determination of Intracellular Iron Content and Spatial Distribution of the Intracellular Iron. International Journal of Molecular Sciences, 2013, 14, 9111-9125.	1.8	44
299	Design of Superparamagnetic Nanoparticles for Magnetic Particle Imaging (MPI). International Journal of Molecular Sciences, 2013, 14, 18682-18710.	1.8	56
300	Materials Characterization of Feraheme/Ferumoxytol and Preliminary Evaluation of Its Potential for Magnetic Fluid Hyperthermia. International Journal of Molecular Sciences, 2013, 14, 17501-17510.	1.8	101
301	Growth of Feâ€“Pt Magnetic Nanoparticles on Silica Particles Modified with Organic Molecules. Japanese Journal of Applied Physics, 2013, 52, 110114.	0.8	3
302	Intravenous magnetic nanoparticle cancer hyperthermia. International Journal of Nanomedicine, 2013, 8, 2521.	3.3	173
303	Magnetic Nanostructures: Synthesis, Properties, and Applications. , 2013, , 473-514.		4
304	Magnetic Nanoparticle Imaging Using Cooled Pickup Coil and Harmonic Signal Detection. Japanese Journal of Applied Physics, 2013, 52, 087001.	0.8	9
305	Structure factor of model bidisperse ferrofluids with relatively weak interparticle interactions. Journal of Chemical Physics, 2013, 139, 224905.	1.2	14
306	Magnetic-mediated hyperthermia for cancer treatment: Research progress and clinical trials. Chinese Physics B, 2013, 22, 108104.	0.7	44
307	Analyzing magnetic nanoparticle content in biological samples: Acsusceptometry using offset fields. , 2013, , .		0
308	Bio- and Medical-Application of Plasma-Functionalized Nanoparticles. Hyomen Kagaku, 2013, 34, 535-540.	0.0	0
309	Magnetic Nanoparticles as Mediators of Ligand-Free Activation of EGFR Signaling. PLoS ONE, 2013, 8, e68879.	1.1	30
310	Enhanced Nanomagnetic Gene Transfection of Human Prenatal Cardiac Progenitor Cells and Adult Cardiomyocytes. PLoS ONE, 2013, 8, e69812.	1.1	8
311	Synthesis, Characterization, and Applications of Dendrimer-Encapsulated Zero-Valent Ni Nanoparticles as Antimicrobial Agents. ISRN Nanomaterials, 2013, 2013, 1-9.	0.7	13
312	Magnetization and Specific Absorption Rate Studies of Ball-Milled Iron Oxide Nanoparticles for Biomedicine. Journal of Nanoparticles, 2013, 2013, 1-13.	1.4	21

#	Article	IF	Citations
313	Biodistribution and acute toxicity of a nanofluid containing manganese iron oxide nanoparticles produced by a mechanochemical process. International Journal of Nanomedicine, 2014, 9, 1919.	3.3	41
314	Can commercial ferrofluids be exploited in AC magnetic hyperthermia treatment to address diverse biomedical aspects?. EPJ Web of Conferences, 2014, 75, 08002.	0.1	8
315	DSC Study of Biocompatible Magnetite Nanoparticles Coated with Polymer. Materials Science Forum, 0, 782, 611-614.	0.3	0
316	Magnetic nanoparticles trigger cell proliferation arrest of neuro-2a cells and ROS-mediated endoplasmic reticulum stress response. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	8
317	On the reliable measurement of specific absorption rates and intrinsic loss parameters in magnetic hyperthermia materials. Journal Physics D: Applied Physics, 2014, 47, 495003.	1.3	288
318	Peapodâ€Type Nanocomposites through the In Situ Growth of Gold Nanoparticles within Preformed Hexaniobate Nanoscrolls. Angewandte Chemie - International Edition, 2014, 53, 4614-4617.	7.2	30
319	Shaping Magnetic Fields to Direct Therapy to Ears and Eyes. Annual Review of Biomedical Engineering, 2014, 16, 455-481.	5.7	71
320	Engineering of gadofluoroprobes: Broad-spectrum applications from cancer diagnosis to therapy. Applied Physics Letters, 2014, 104, 023703.	1.5	3
321	Magnetic Nanoparticles as Intraocular Drug Delivery System to Target Retinal Pigmented Epithelium (RPE). International Journal of Molecular Sciences, 2014, 15, 1590-1605.	1.8	43
322	Viscosity Dependence of a Magnetic Fluid Nanoparticles Concentration. Acta Physica Polonica A, 2014, 126, 278-279.	0.2	8
323	Collection of magnetic particles from synovial fluid using Nd-Fe-B micromagnets. , 2014, , .		2
324	Nonlinear frequency-dependent effects in the dc magnetization of uniaxial magnetic nanoparticles in superimposed strong alternating current and direct current fields. Journal of Applied Physics, 2014, 116, .	1.1	7
325	Visible light optical coherence correlation spectroscopy. Optics Express, 2014, 22, 21944.	1.7	6
326	Effects of synthesis conditions on Curie temperature of La0.75Sr0.25MnO3fine particles formed by ultrasonic spray pyrolysis. Japanese Journal of Applied Physics, 2014, 53, 105001.	0.8	4
327	Structural disorder versus spin canting in monodisperse maghemite nanocrystals. Applied Physics Letters, 2014, 104, .	1.5	21
328	Combination of magnetic field and surface functionalization for reaching synergistic effects in cellular labeling by magnetic coreâ€“shell nanospheres. Biomaterials Science, 2014, 2, 1750-1760.	2.6	14
329	Structural properties of magnetic nanoparticles determine their heating behavior - an estimation of the in vivo heating potential. Nanoscale Research Letters, 2014, 9, 602.	3.1	48
330	Thermal plasma processed ferro-magnetically ordered face-centered cubic iron at room temperature. Journal of Applied Physics, 2014, 116, 163913.	1.1	7

#	Article	IF	Citations
331	Size dependence study on magnetic heating properties of superparamagnetic iron oxide nanoparticles suspension. Journal of Applied Physics, 2014, 116, 123906.	1.1	11
332	In situ magnetic and electronic investigation of the early stage oxidation of Fe nanoparticles using X-ray photo-emission electron microscopy. Physical Chemistry Chemical Physics, 2014, 16, 26624-26630.	1.3	16
333	Efficient Cisplatin Proâ€Drug Delivery Visualized with Subâ€100 nm Resolution: Interfacing Engineered Thermosensitive Magnetomicelles with a Living System. Advanced Materials Interfaces, 2014, 1, 1400182.	1.9	22
334	Magnetic particle hyperthermiaâ€"a promising tumour therapy?. Nanotechnology, 2014, 25, 452001.	1.3	407
335	Protein A-conjugated iron oxide nanoparticles for separation ofVibrio choleraefrom water samples. Faraday Discussions, 2014, 175, 73-82.	1.6	21
336	Magnetic dynamics studies of the newest-generation iron deficiency drugs based on ferumoxytol and iron isomaltoside 1000. Journal of Applied Physics, 2014, 116, .	1.1	5
337	Revisiting 30 years of biofunctionalization and surface chemistry of inorganic nanoparticles for nanomedicine. Frontiers in Chemistry, 2014, 2, 48.	1.8	319
338	Synthesis of La_{0.75}Sr_{0.25}MnO₃fine particles for self-controlled magnetic heating hyperthermia by ultrasonic spray pyrolysis. Japanese Journal of Applied Physics, 2014, 53, 070302.	0.8	3
339	Medical Applications of Magnetic Nanoparticles. Frontiers of Nanoscience, 2014, 6, 217-258.	0.3	15
340	High-efficiency plasma surface modification of graphite-encapsulated magnetic nanoparticles using a pulsed particle explosion technique. Japanese Journal of Applied Physics, 2014, 53, 010205.	0.8	15
341	Simulational validation of color magnetic particle imaging (cMPI). Physics in Medicine and Biology, 2014, 59, 6521-6536.	1.6	7
342	Magnetoliposomes: opportunities and challenges. European Journal of Nanomedicine, 2014, 6, .	0.6	48
343	Magnetization and MÃ¶ssbauer study of partially oxidized iron cluster films deposited on HOPG. Journal of Magnetism and Magnetic Materials, 2014, 367, 40-46.	1.0	10
344	Layer-by-layer assembly of iron oxide magnetic nanoparticles decorated silica colloid for water remediation. Chemical Engineering Journal, 2014, 243, 68-78.	6.6	46
345	PEGylation of surfacted magnetite coreâ€"shell nanoparticles for biomedical application. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 460, 429-440.	2.3	59
346	Effects of size reduction on the structure and magnetic properties of coreâ€"shell Ni3Si/silica nanoparticles prepared by electrochemical synthesis. Journal of Alloys and Compounds, 2014, 584, 119-127.	2.8	14
347	Extraction and Immobilization of SA-Î±-2,6-Gal Receptors on Magnetic Nanoparticles to Study Receptor Stability and Interaction with Sambucus nigra Lectin. Applied Biochemistry and Biotechnology, 2014, 172, 3721-3735.	1.4	14
348	Preparation of magnetic polymer colloids with Brownian magnetic relaxation. Colloid and Polymer Science, 2014, 292, 1191-1198.	1.0	7

#	Article	IF	Citations
349	A Simple Approach for the Magnetic Relaxation in Systems of Weakly-Interacting, Dispersive Nanoparticles in Applied Magnetic Field. Journal of Superconductivity and Novel Magnetism, 2014, 27, 781-785.	0.8	3
350	Effects of metal(loid)-based nanomaterials on essential element homeostasis: The central role of nanometallomics for nanotoxicology. Metallomics, 2014, 6, 729.	1.0	40
351	Efficient and safe internalization of magnetic iron oxide nanoparticles: Two fundamental requirements for biomedical applications. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 733-743.	1.7	101
352	Effective energy barrier distributions for random and aligned magnetic nanoparticles. Journal of Physics Condensed Matter, 2014, 26, 146006.	0.7	11
353	Nanoparticles for Imaging, Sensing, and Therapeutic Intervention. ACS Nano, 2014, 8, 3107-3122.	7.3	255
354	Dynamic phase diagrams of a cylindrical Ising nanowire in the presence of a time dependent magnetic field. Journal of Magnetism and Magnetic Materials, 2014, 361, 61-67.	1.0	49
355	Numerical Simulation of a Falling Ferrofluid Droplet in a Uniform Magnetic Field by the VOSET Method. Numerical Heat Transfer; Part A: Applications, 2014, 66, 144-164.	1.2	56
356	Nanotechnology and Life: An Engineer's Perspective [Point of View]. Proceedings of the IEEE, 2014, 102, 930-935.	16.4	2
357	Temperature dependent dissipation in magnetic nanoparticles. Journal of Applied Physics, 2014, 115, 17B301.	1.1	16
358	Selective detection of magnetic nanoparticles in biomedical applications using differential magnetometry. Journal of Magnetism and Magnetic Materials, 2014, 365, 31-39.	1.0	21
359	Development of a magnetic nanoparticle susceptibility magnitude imaging array. Physics in Medicine and Biology, 2014, 59, 1047-1071.	1.6	33
360	Chemistry, Biology, and Medicine of Fluorescent Nanomaterials and Related Systems: New Insights into Biosensing, Bioimaging, Genomics, Diagnostics, and Therapy. Chemical Reviews, 2014, 114, 6130-6178.	23.0	693
361	Magnetic properties of crystalline mesoporous Zn-substituted copper ferrite synthesized under nanoconfinement in silica matrix. Microporous and Mesoporous Materials, 2014, 190, 346-355.	2.2	27
362	Facile synthesis of oil-soluble Fe3O4 nanoparticles based on a phase transfer mechanism. Applied Surface Science, 2014, 307, 306-310.	3.1	27
363	Magnetic hyperthermia efficiency in the cellular environment forÂdifferent nanoparticle designs. Biomaterials, 2014, 35, 6400-6411.	5.7	341
364	Magnetic resonance imaging contrast of iron oxide nanoparticles developed for hyperthermia is dominated by iron content. International Journal of Hyperthermia, 2014, 30, 192-200.	1.1	69
365	Thermal and magnetic properties of ternary mixed Ising nanoparticles with coreâ€“shell structure: Effective-field theory approach. Journal of Magnetism and Magnetic Materials, 2014, 349, 165-172.	1.0	85
366	Manipulation of micro- and nanostructure motion with magnetic fields. Soft Matter, 2014, 10, 1295-1308.	1.2	184

#	Article	IF	Citations
367	Structural and magnetic properties of sonoelectrocrystallized magnetite nanoparticles. Journal Physics D: Applied Physics, 2014, 47, 055001.	1.3	25
368	Ex vivo assessment of polyol coated-iron oxide nanoparticles for MRI diagnosis applications: toxicological and MRI contrast enhancement effects. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	18
369	Magnetic Iron Oxide Nanoparticle Functionalization: Isocyanate Moiety as a Suitable Monodentate Anchoring Group. Organic Letters, 2014, 16, 460-463.	2.4	6
370	Out-of-equilibrium dynamics in superspin glass state of strongly interacting magnetic nanoparticle assemblies. Journal of Magnetism and Magnetic Materials, 2014, 355, 225-229.	1.0	12
371	Control of smooth muscle Î±-actin (SMA) up-regulation in HBMSCs using remote magnetic particle mechano-activation. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 45-55.	1.7	43
372	Network and Nakamura tridiagonal computational simulation of electrically-conducting biopolymer micro-morphic transport phenomena. Computers in Biology and Medicine, 2014, 44, 44-56.	3.9	37
373	Enhanced oxidation of nanoparticles through strain-mediated ionic transport. Nature Materials, 2014, 13, 26-30.	13.3	110
374	Synthesis and Characterization of Core-shell Au Fe Oxide Nanocomposites and Their Application for Detecting Immunological Interaction. Monoclonal Antibodies in Immunodiagnosis and Immunotherapy, 2014, 33, 74-79.	0.8	4
375	Characterization of intratumor magnetic nanoparticle distribution and heating in a rat model of metastatic spine disease. Journal of Neurosurgery: Spine, 2014, 20, 740-750.	0.9	27
376	Magnetically multiplexed heating of single domain nanoparticles. Applied Physics Letters, 2014, 104, .	1.5	37
377	Template-assisted nano-patterning of magnetic coreâ€“shell particles in gradient fields. Physical Chemistry Chemical Physics, 2014, 16, 13306-13317.	1.3	28
378	Ligand-size dependent water proton relaxivities in ultrasmall gadolinium oxide nanoparticles and in vivo T₁ MR images in a 1.5 T MR field. Physical Chemistry Chemical Physics, 2014, 16, 19866-19873.	1.3	31
379	High pressure synthesis of FePt nanoparticles with controlled morphology and Fe content. RSC Advances, 2014, 4, 1168-1173.	1.7	4
380	Prospects for magnetic nanoparticles in systemic administration: synthesis and quantitative detection. Physical Chemistry Chemical Physics, 2014, 16, 4456-4464.	1.3	21
381	Water-soluble <scp>d</scp>-glucuronic acid coated ultrasmall mixed Ln/Mn (Ln = Gd and Dy) oxide nanoparticles and their application to magnetic resonance imaging. Biomaterials Science, 2014, 2, 1287-1295.	2.6	10
382	Multicore magnetic FePt nanoparticles: controlled formation and properties. RSC Advances, 2014, 4, 1039-1044.	1.7	20
383	Crossing the boundary between face-centred cubic and hexagonal close packed: the structure of nanosized cobalt is unraveled by a model accounting for shape, size distribution and stacking faults, allowing simulation of XRD, XANES and EXAFS. Journal of Applied Crystallography, 2014, 47, 1562-1568.	1.9	28
384	NMR as Evaluation Strategy for Cellular Uptake of Nanoparticles. Nano Letters, 2014, 14, 3959-3965.	4.5	5

#	Article	IF	Citations
385	Mechanisms for Iron Oxide Formation under Hydrothermal Conditions: An in Situ Total Scattering Study. ACS Nano, 2014, 8, 10704-10714.	7.3	75
386	Magnetic nanoparticle-based therapeutic agents for thermo-chemotherapy treatment of cancer. Nanoscale, 2014, 6, 11553-11573.	2.8	475
387	Particle geometry, charge, and wettability. , 2014, , 443-467.		3
388	Investigation of magnetic properties of Fe3O4 nanoparticles using temperature dependent magnetic hyperthermia in ferrofluids. Journal of Applied Physics, 2014, 116, .	1.1	48
389	Colloidal stability of polyethylene glycol functionalized Co0.5Zn0.5Fe2O4 nanoparticles: effect of pH, sample and salt concentration for hyperthermia application. RSC Advances, 2014, 4, 12662.	1.7	41
390	The 2014 Magnetism Roadmap. Journal Physics D: Applied Physics, 2014, 47, 333001.	1.3	329
391	Magnetic Hysteresis Loop in a Superparamagnetic State. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	17
392	Role of dipolar interaction in magnetic hyperthermia. Physical Review B, 2014, 89, .	1.1	122
393	Synthesis, characterization and toxicological evaluation of iron oxide nanoparticles in human lung alveolar epithelial cells. Colloids and Surfaces B: Biointerfaces, 2014, 122, 209-215.	2.5	60
394	Tunable AC Magnetic Hyperthermia Efficiency of Ni Ferrite Nanoparticles. IEEE Transactions on Magnetics, 2014, 50, 1-7.	1.2	21
395	In vitro study of the interaction of heregulin-functionalized magneticâ€“optical nanorods with MCF7 and MDA-MB-231 cells. Faraday Discussions, 2014, 175, 189-201.	1.6	1
396	Magnetic Nanoparticles for in Vivo Use: A Critical Assessment of Their Composition. Journal of Physical Chemistry B, 2014, 118, 11738-11746.	1.2	59
398	Engineered Magnetic Nanoparticles for Biomedical Applications. Advanced Healthcare Materials, 2014, 3, 160-175.	3.9	44
399	Mechanisms of Nucleation and Growth of Nanoparticles in Solution. Chemical Reviews, 2014, 114, 7610-7630.	23.0	2,201
400	Comparison of a Single Optimized Coil and a Helmholtz Pair for Magnetic Nanoparticle Hyperthermia. IEEE Transactions on Biomedical Engineering, 2014, 61, 1642-1650.	2.5	20
401	In vitro application of Mn-ferrite nanoparticles as novel magnetic hyperthermia agents. Journal of Materials Chemistry B, 2014, 2, 8390-8398.	2.9	66
402	Magnetic Interactions. Frontiers of Nanoscience, 2014, 6, 129-188.	0.3	28
403	Ultra-high stability and durability of iron oxide micro- and nano-structures with discovery of new three-dimensional structural formation of grain and boundary. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 456, 184-194.	2.3	13

#	Article	IF	Citations
404	Acridine orange coated magnetic nanoparticles for nucleus labeling and DNA adsorption. Colloids and Surfaces B: Biointerfaces, 2014, 115, 150-156.	2.5	23
405	Reprint of: Out-of-equilibrium dynamics in superspin glass state of strongly interacting magnetic nanoparticle assemblies. Journal of Magnetism and Magnetic Materials, 2014, 368, 438-442.	1.0	1
406	Applications of biosynthesized metallic nanoparticles â€“ A review. Acta Biomaterialia, 2014, 10, 4023-4042.	4.1	390
407	Stabilization and Characterization of Iron Oxide Superparamagnetic Core-Shell Nanoparticles for Biomedical Applications. , 2014, , 355-387.		1
408	Magnetic resonance imaging by using nano-magnetic particles. Journal of Magnetism and Magnetic Materials, 2014, 369, 176-183.	1.0	55
409	Future perspectives for spintronic devices. Journal Physics D: Applied Physics, 2014, 47, 193001.	1.3	392
410	A Novel DNA Nanosensor Based on CdSe/ZnS Quantum Dots and Synthesized Fe3O4 Magnetic Nanoparticles. Molecules, 2014, 19, 4355-4368.	1.7	17
412	Exogenous contrast agents for thermoacoustic imaging: An investigation into the underlying sources of contrast. Medical Physics, 2015, 42, 170-181.	1.6	26
413	Magnetic Nanoparticles for Drug Delivery. Frontiers in Nanobiomedical Research, 2014, , 595-620.	0.1	1
414	Balanced Temperature Estimated from Minor Hysteresis Loop Measurements of La-Sr-Mn-Cu Perovskite for Heating Mediators of Magnetic Hyperthermia. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2014, 61, S121-S124.	0.1	0
415	Understanding dynamics of interacting magnetic nanoparticles: from the weak interaction regime to the collective superspin glass state. Journal of Physics: Conference Series, 2014, 521, 012006.	0.3	25
417	Dynamics of Magnetic Nanoparticles and Nanodevices. , 2015, , 117-148.		1
418	Nonlinear ac stationary response and dynamic magnetic hysteresis of quantum uniaxial superparamagnets. Physical Review B, 2015, 92, .	1.1	0
419	Halbach arrays consisting of cubic elements optimised for high field gradients in magnetic drug targeting applications. Physics in Medicine and Biology, 2015, 60, 8303-8327.	1.6	43
422	Study of the effect of dipole interactions on hyperthermia heating the cluster composed of superparamagnetic nanoparticles. AIP Advances, 2015, 5, .	0.6	24
423	Comparisons of characteristic timescales and approximate models for Brownian magnetic nanoparticle rotations. Journal of Applied Physics, 2015, 117, 233905.	1.1	13
424	Quantitative model selection for enhanced magnetic nanoparticle imaging in magnetorelaxometry. Medical Physics, 2015, 42, 6853-6862.	1.6	13
425	Determination of the blocking temperature of magnetic nanoparticles: The good, the bad, and the ugly. Journal of Applied Physics, 2015, 118, .	1.1	189

#	Article	IF	Citations
426	Toward 2D and 3D imaging of magnetic nanoparticles using EPR measurements. Medical Physics, 2015, 42, 5007-5014.	1.6	6
427	Thermal magnetic noise spectra of nanoparticle ensembles. Applied Physics Letters, 2015, 107, .	1.5	14
428	Alternative low frequency magnetic field theranostics: recent advances, safety and hazards. IOP Conference Series: Materials Science and Engineering, 2015, 98, 012016.	0.3	2
429	Impact of the Diamond Light Source on research in Earth and environmental sciences: current work and future perspectives. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20130151.	1.6	9
430	Internal Magnetic Structure of Nanoparticles Dominates Timeâ€Dependent Relaxation Processes in a Magnetic Field. Advanced Functional Materials, 2015, 25, 4300-4311.	7.8	100
431	A Pseudoâ€Model Strategy Combining Experiment and Model to Investigate the Targeting Efficiency of Injected Magnetic Nanoparticles as Therapeutics Carriers. Advanced Engineering Materials, 2015, 17, 1511-1517.	1.6	0
432	The Scanning TMR Microscope for Biosensor Applications. Biosensors, 2015, 5, 172-186.	2.3	1
433	DNA Targeting Sequence Improves Magnetic Nanoparticle-Based Plasmid DNA Transfection Efficiency in Model Neurons. International Journal of Molecular Sciences, 2015, 16, 19369-19386.	1.8	14
434	Magnetic Nanoparticle Arrays Self-Assembled on Perpendicular Magnetic Recording Media. International Journal of Molecular Sciences, 2015, 16, 19769-19779.	1.8	13
435	Synthesis of ABA Tri-Block Co-Polymer Magnetopolymersomes via Electroporation for Potential Medical Application. Polymers, 2015, 7, 2558-2571.	2.0	5
436	Magnetic-Particle-Sensing Based Diagnostic Protocols and Applications. Sensors, 2015, 15, 12983-12998.	2.1	16
437	Nonequilibrium Magnetic Response of Anisotropic Superparamagnetic Nanoparticles and Possible Artifacts in Magnetic Particle Imaging. PLoS ONE, 2015, 10, e0118156.	1.1	6
438	An induction heating device using planar coil with high amplitude alternating magnetic fields for magnetic hyperthermia. Technology and Health Care, 2015, 23, S203-S209.	0.5	11
439	Interaction between Iron Oxide Nanoparticles and HepaRG Cells: A PreliminaryIn VitroEvaluation. Journal of Nanomaterials, 2015, 2015, 1-9.	1.5	3
440	Magnetization Reversal and Specific Loss Power of Magnetic Nanoparticles in Cellular Environment Evaluated by AC Hysteresis Measurement. Journal of Nanomaterials, 2015, 2015, 1-8.	1.5	21
441	Potential dual imaging nanoparticle: Gd2O3 nanoparticle. Scientific Reports, 2015, 5, 8549.	1.6	121
442	Robustness Assessment of 1-D Electron Paramagnetic Resonance for Improved Magnetic Nanoparticle Reconstructions. IEEE Transactions on Biomedical Engineering, 2015, 62, 1635-1643.	2.5	3
443	Bioinspired nanoreactors for the biomineralisation of metallic-based nanoparticles for nanomedicine. Physical Chemistry Chemical Physics, 2015, 17, 15508-15521.	1.3	30

#	Article	IF	Citations
444	Melt-grafting for the synthesis of coreâ€“shell nanoparticles with ultra-high dispersant density. Nanoscale, 2015, 7, 11216-11225.	2.8	45
445	Magnetic Cu0.5Co0.5Fe2O4 ferrite nanoparticles immobilized in situ on the surfaces of cellulose nanocrystals. Cellulose, 2015, 22, 2571-2587.	2.4	29
446	Temperature-induced structural transitions in self-assembling magnetic nanocolloids. Physical Chemistry Chemical Physics, 2015, 17, 16601-16608.	1.3	38
447	Dispersion and Functionalization of Nanoparticles Synthesized by Gas Aggregation Source: Opening New Routes Toward the Fabrication of Nanoparticles for Biomedicine. Langmuir, 2015, 31, 13813-13820.	1.6	12
448	Coreâ€“shell superparamagnetic nanoparticles with interesting properties as contrast agents for MRI. Materials Chemistry and Physics, 2015, 168, 42-49.	2.0	13
449	Evaluation of Complex Harmonic Signals From Magnetic Nanoparticles for Magnetic Particle Imaging. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	5
450	Magnetic phase diagram of superantiferromagnetic TbCu2nanoparticles. Journal of Physics Condensed Matter, 2015, 27, 496002.	0.7	15
451	Remotely Triggered Activation of TGF- With Magnetic Nanoparticles. IEEE Magnetics Letters, 2015, 6, 1-4.	0.6	15
452	Thermosensitive polymer-grafted iron oxide nanoparticles studied byin situdynamic light backscattering under magnetic hyperthermia. Journal Physics D: Applied Physics, 2015, 48, 494001.	1.3	23
453	One-step synthesis of magnetic chitosan for controlled release of 5-hydroxytryptophan. Journal of Magnetism and Magnetic Materials, 2015, 380, 117-124.	1.0	19
454	Fundamentals and application of magnetic particles in cell isolation and enrichment: a review. Reports on Progress in Physics, 2015, 78, 016601.	8.1	261
455	A new magnetic superatom: Cr@Zn₁₇. Physical Chemistry Chemical Physics, 2015, 17, 28033-28043.	1.3	17
456	Enhanced biomedical heat-triggered carriers via nanomagnetism tuning in ferrite-based nanoparticles. Journal of Magnetism and Magnetic Materials, 2015, 381, 179-187.	1.0	46
457	Control of gas phase nanoparticle shape and its effect on MRI relaxivity. Materials Research Express, 2015, 2, 035002.	0.8	15
458	Controlled clustering of carboxylated SPIONs through polyethylenimine. Journal of Magnetism and Magnetic Materials, 2015, 380, 144-149.	1.0	16
459	Iron-filled multiwalled carbon nanotubes surface-functionalized with paramagnetic Gd (III): A candidate dual-functioning MRI contrast agent and magnetic hyperthermia structure. Carbon, 2015, 87, 226-232.	5.4	33
460	Spin Dynamics in Hybrid Iron Oxideâ€“Gold Nanostructures. Journal of Physical Chemistry C, 2015, 119, 1224-1233.	1.5	9
461	Correlative Electron and Fluorescence Microscopy of Magnetotactic Bacteria in Liquid: Toward In Vivo Imaging. Scientific Reports, 2014, 4, 6854.	1.6	65

#	Article	IF	Citations
462	Synthesis of Smallâ€Sized, Porous, and Lowâ€Toxic Magnetite Nanoparticles by Thin POSS Silica Coating. Chemistry - A European Journal, 2015, 21, 3914-3918.	1.7	13
463	The Effect of Cyclic Movement of Magnets on the Sedimentation of Magnetic Nanoparticles in Magnetofection Devices: Computer Simulation. Separation Science and Technology, 2015, 50, 767-771.	1.3	0
464	Synthesis methods to prepare single- and multi-core iron oxide nanoparticles for biomedical applications. Dalton Transactions, 2015, 44, 2943-2952.	1.6	96
465	In Situ Measurement of Magnetization Relaxation of Internalized Nanoparticles in Live Cells. ACS Nano, 2015, 9, 231-240.	7.3	121
466	Surface modification of magnetic nanoparticles in biomedicine. Chinese Physics B, 2015, 24, 014704.	0.7	26
467	Vinamax: a macrospin simulation tool for magnetic nanoparticles. Medical and Biological Engineering and Computing, 2015, 53, 309-317.	1.6	23
468	Nano-thermometers with thermo-sensitive polymer grafted USPIOs behaving as positive contrast agents in low-field MRI. Nanoscale, 2015, 7, 3754-3767.	2.8	47
469	A facile sol combustion and calcination process for the preparation of magnetic Ni0.5Zn0.5Fe2O4 nanopowders and their adsorption behaviors of Congo red. Powder Technology, 2015, 274, 418-425.	2.1	46
470	Magnetic relaxation and correlating effective magnetic moment with particle size distribution in maghemite nanoparticles. Journal of Magnetism and Magnetic Materials, 2015, 384, 148-154.	1.0	54
471	Adsorption and separation of amyloid beta aggregates using ferromagnetic nanoparticles coated with charged polymer brushes. Journal of Materials Chemistry B, 2015, 3, 3351-3357.	2.9	7
472	Symmetries of the 2D magnetic particle imaging system matrix. Physics in Medicine and Biology, 2015, 60, 4033-4044.	1.6	11
473	Patterning the Stiffness of Elastomeric Nanocomposites by Magnetophoretic Control of Cross-linking Impeder Distribution. Materials, 2015, 8, 474-485.	1.3	14
474	Synthesis and magnetic properties of Co1â^'Zn Fe2O4 (x=0Ã·1) nanopowders by thermal decomposition of Co(II), Zn(II) and Fe(III) carboxylates. Journal of Magnetism and Magnetic Materials, 2015, 393, 92-98.	1.0	25
475	Magnetic nanoparticles for â€œsmart liposomesâ€. European Biophysics Journal, 2015, 44, 647-654.	1.2	23
476	Iron Oxide Based Nanoparticles for Multimodal Imaging and Magnetoresponsive Therapy. Chemical Reviews, 2015, 115, 10637-10689.	23.0	827
477	Micromagnet arrays for on-chip focusing, switching, and separation of superparamagnetic beads and single cells. Lab on A Chip, 2015, 15, 3370-3379.	3.1	13
478	Increasing the Collision Rate of Particle Impact Electroanalysis with Magnetically Guided Pt-Decorated Iron Oxide Nanoparticles. ACS Nano, 2015, 9, 7583-7595.	7.3	47
479	Coreâ€“Shell Structure of Monodisperse Poly(ethylene glycol)-Grafted Iron Oxide Nanoparticles Studied by Small-Angle X-ray Scattering. Chemistry of Materials, 2015, 27, 4763-4771.	3.2	52

#	Article	IF	Citations
480	Magnetic nanoparticle imaging using multiple electron paramagnetic resonance activation sequences. Journal of Applied Physics, 2015, 117, 17D105.	1.1	2
481	Enhanced Targeted Drug Delivery Through Controlled Release in a Three-Dimensional Vascular Tree. Journal of Biomechanical Engineering, 2015, 137, .	0.6	8
482	Recent progress in biomedical applications of Pluronic (PF127): Pharmaceutical perspectives. Journal of Controlled Release, 2015, 209, 120-138.	4.8	267
483	Biocompatibility and osteogenic capacity of borosilicate bioactive glass scaffolds loaded with Fe₃O₄ magnetic nanoparticles. Journal of Materials Chemistry B, 2015, 3, 4377-4387.	2.9	48
484	On-wafer magnetic resonance of magnetite nanoparticles. Journal of Magnetism and Magnetic Materials, 2015, 393, 15-19.	1.0	1
485	Recent progress on magnetic iron oxide nanoparticles: synthesis, surface functional strategies and biomedical applications. Science and Technology of Advanced Materials, 2015, 16, 023501.	2.8	1,159
486	Critical Review on the Toxicity of Some Widely Used Engineered Nanoparticles. Industrial & Engineering Chemistry Research, 2015, 54, 6209-6233.	1.8	222
487	Iron Oxide Nanoparticles for Magnetically-Guided and Magnetically-Responsive Drug Delivery. International Journal of Molecular Sciences, 2015, 16, 8070-8101.	1.8	367
488	Susceptibility losses in heating of magnetic core/shell nanoparticles for hyperthermia: a Monte Carlo study of shape and size effects. Nanoscale, 2015, 7, 7753-7762.	2.8	40
489	Lorentz microscopy sheds light on the role of dipolar interactions in magnetic hyperthermia. Nanoscale, 2015, 7, 7717-7725.	2.8	16
490	Structural and magnetic characterization of electro-crystallized magnetite nanoparticles under constant current. Materials Research Bulletin, 2015, 70, 328-335.	2.7	14
491	MR imaging and targeting of human breast cancer cells with folate decorated nanoparticles. RSC Advances, 2015, 5, 39760-39770.	1.7	12
492	Physical Stimuliâ€Induced Chondrogenic Differentiation of Mesenchymal Stem Cells Using Magnetic Nanoparticles. Advanced Healthcare Materials, 2015, 4, 1339-1347.	3.9	51
493	Controlled In Vivo Swimming of a Swarm of Bacteriaâ€Like Microrobotic Flagella. Advanced Materials, 2015, 27, 2981-2988.	11.1	440
494	Magnetic nanoparticle hyperthermia enhances radiation therapy: A study in mouse models of human prostate cancer. International Journal of Hyperthermia, 2015, 31, 359-374.	1.1	106
495	Magnetic nanoparticles and nanocomposites for remote controlled therapies. Journal of Controlled Release, 2015, 219, 76-94.	4.8	97
496	Towards nanomedicines of the future: Remote magneto-mechanical actuation of nanomedicines by alternating magnetic fields. Journal of Controlled Release, 2015, 219, 43-60.	4.8	179
497	A Direct and Continuous Supercritical Water Process for the Synthesis of Surface-Functionalized Nanoparticles. Industrial & Engineering Chemistry Research, 2015, 54, 7436-7451.	1.8	12

#	Article	IF	Citations
498	Magnetic Properties of Carbon-Coated Ni Nanoparticles Prepared by Solid-Phase Pyrolysis of Nickel-Phthalocyanine. Nano, 2015, 10, 1550089.	0.5	13
499	Shape-controlled synthesis of cobalt particles by a surfactant-free solvothermal method and their catalytic application to the thermal decomposition of ammonium perchlorate. CrystEngComm, 2015, 17, 9062-9069.	1.3	27
500	Modelling mass and heat transfer in nano-based cancer hyperthermia. Royal Society Open Science, 2015, 2, 150447.	1.1	60
501	Silica and silica organically modified nanoparticles: Water dynamics in complex systems. Microporous and Mesoporous Materials, 2015, 217, 102-108.	2.2	10
502	Interaction effects enhancing magnetic particle detection based on magneto-relaxometry. Applied Physics Letters, 2015, 106, .	1.5	20
503	Characterization of the magnetic moment distribution in low-concentration solutions of iron oxide nanoparticles by a high-Tc superconducting quantum interference device magnetometer. Journal of Applied Physics, 2015, 117, 17B321.	1.1	29
504	Out of plane superferromagnetic behavior of quasi two-dimensional Fe/Al2O3 multilayer nanocomposites. Journal of Applied Physics, 2015, 117, .	1.1	8
505	Magnetic nanoparticle-based drug delivery for cancer therapy. Biochemical and Biophysical Research Communications, 2015, 468, 463-470.	1.0	350
506	Magnetic iron oxide nanoparticles: Recent trends in design and synthesis of magnetoresponsive nanosystems. Biochemical and Biophysical Research Communications, 2015, 468, 442-453.	1.0	127
507	Highly tunable perpendicularly magnetized synthetic antiferromagnets for biotechnology applications. Applied Physics Letters, 2015, 107, 012403.	1.5	40
508	Towards soft robotic devices for site-specific drug delivery. Expert Review of Medical Devices, 2015, 12, 703-715.	1.4	17
509	Nanomedical innovation: the SEON-concept for an improved cancer therapy with magnetic nanoparticles. Nanomedicine, 2015, 10, 3287-3304.	1.7	25
510	Magnetic drug carriers: bright insights from light-responsive magnetic liposomes. Nanomedicine, 2015, 10, 2797-2799.	1.7	8
511	Quantifying the motion of magnetic particles in excised tissue: Effect of particle properties and applied magnetic field. Journal of Magnetism and Magnetic Materials, 2015, 393, 243-252.	1.0	23
512	A method for measuring the NÃ©el relaxation time in a frozen ferrofluid. Journal of Applied Physics, 2015, 118, .	1.1	9
513	Aurora kinase inhibitors attached to iron oxide nanoparticles enhances inhibition of the growth of liver cancer cells. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	1
514	Nano particles: An emerging tool in biomedicine. Asian Pacific Journal of Tropical Disease, 2015, 5, 767-771.	0.5	10
515	Novel carboxylated PEG-coating on magnetite nanoparticles designed for biomedical applications. Journal of Magnetism and Magnetic Materials, 2015, 380, 132-139.	1.0	51

#	Article	IF	Citations
516	Optimization of an AC/DC High- <inline-formula> <tex-math notation="TeX">$T_{m c}$</tex-math></inline-formula> SQUID Magnetometer Detection Unit for Evaluation of Magnetic Nanoparticles in Solution. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	12
517	Dynamic Inversion Enables External Magnets To Concentrate Ferromagnetic Rods to a Central Target. Nano Letters, 2015, 15, 359-364.	4.5	72
518	Effect of viscosity on harmonic signals from magnetic fluid. Journal of Magnetism and Magnetic Materials, 2015, 380, 105-110.	1.0	42
519	Collective magnetic behavior of biocompatible systems of maghemite particles coated with functional polymer shells. Journal of Magnetism and Magnetic Materials, 2015, 379, 28-38.	1.0	9
520	Remote control of signaling pathways using magnetic nanoparticles. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2015, 7, 342-354.	3.3	27
521	Open challenges in magnetic drug targeting. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2015, 7, 446-457.	3.3	113
522	Nonlinear susceptibility magnitude imaging of magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2015, 378, 267-277.	1.0	16
523	1.3 Î¼m emitting SrF2:Nd3+ nanoparticles for high contrast in vivo imaging in the second biological window. Nano Research, 2015, 8, 649-665.	5.8	185
524	Anin vitromodel of mesenchymal stem cell targeting using magnetic particle labelling. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 724-733.	1.3	29
525	Synthesis of magnetic multicomponent nanoparticles CuxNi1â^'xFe2O4. Journal of Magnetism and Magnetic Materials, 2015, 373, 222-225.	1.0	6
526	Magnetically triggered release of molecular cargo from iron oxide nanoparticle loaded microcapsules. Nanoscale, 2015, 7, 570-576.	2.8	107
527	Low temperature structural transitions in dipolar hard spheres: The influence on magnetic properties. Journal of Magnetism and Magnetic Materials, 2015, 383, 272-276.	1.0	5
528	Computer modeling to optimize the sensitivity of an optical DNA nanosensor. Sensors and Actuators B: Chemical, 2015, 207, 716-723.	4.0	5
529	Spectroscopic AC susceptibility imaging (sASI) of magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2015, 375, 164-176.	1.0	9
531	Influence of cobalt doping on the hyperthermic efficiency of magnetite nanoparticles. Journal of Magnetism and Magnetic Materials, 2015, 380, 365-371.	1.0	98
532	Exploring multifunctional potential of commercial ferrofluids by magnetic particle hyperthermia. Journal of Magnetism and Magnetic Materials, 2015, 380, 360-364.	1.0	11
533	Superparamagnetic iron oxide nanoparticles exert different cytotoxic effects on cells grown in monolayer cell culture versus as multicellular spheroids. Journal of Magnetism and Magnetic Materials, 2015, 380, 27-33.	1.0	28
534	Computational Analysis of Enhanced Magnetic Bioseparation in Microfluidic Systems with Flow-Invasive Magnetic Elements. Scientific Reports, 2014, 4, 5299.	1.6	36

#	Article	IF	Citations
535	Heat transition during magnetic heating treatment: Study with tissue models and simulation. Journal of Magnetism and Magnetic Materials, 2015, 380, 353-359.	1.0	4
536	Magnetic microgels for drug targeting applications: Physicalâ€“chemical properties and cytotoxicity evaluation. Journal of Magnetism and Magnetic Materials, 2015, 380, 307-314.	1.0	25
538	Screening Antimicrobial Activity of Nickel Nanoparticles Synthesized Using Ocimum sanctum Leaf Extract. Journal of Nanoparticles, 2016, 2016, 1-13.	1.4	45
539	Homogeneous Biosensing Based on Magnetic Particle Labels. Sensors, 2016, 16, 828.	2.1	75
540	Non-Temperature Induced Effects of Magnetized Iron Oxide Nanoparticles in Alternating Magnetic Field in Cancer Cells. PLoS ONE, 2016, 11, e0156294.	1.1	27
541	Thermal therapy with magnetic nanoparticles for cell destruction. Biomedical Optics Express, 2016, 7, 4581.	1.5	15
542	Optimizing magnetic anisotropy of La1â^'Sr MnO3 nanoparticles for hyperthermia applications. Journal of Magnetism and Magnetic Materials, 2016, 420, 232-240.	1.0	18
543	Magneticâ€Fieldâ€Directed Selfâ€Assembly of Programmable Mesoscale Shapes. Advanced Functional Materials, 2016, 26, 3983-3989.	7.8	22
544	Facile preparation of magnetic nanocrystals using amphiphilic hyperbranched polymers as unimolecular nanoreactors and magnetofection in vitro. Polymer Composites, 2016, 37, 429-434.	2.3	9
545	Optimized shapes of magnetic arrays for drug targeting applications. Journal Physics D: Applied Physics, 2016, 49, 225501.	1.3	31
546	Gas phase synthesis of core-shell Fe@FeO x magnetic nanoparticles into fluids. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	11
547	Evaluation of diamagnetic nanofluid ability to heat transfer in the strong magnetic field. Journal of Physics: Conference Series, 2016, 745, 032154.	0.3	4
548	SQUIDs in biomagnetism: a roadmap towards improved healthcare. Superconductor Science and Technology, 2016, 29, 113001.	1.8	67
549	In Vitro Investigation of the Effect of Intracellular and Extracellular Magnetite Nanoparticles Subjected to Alternating Magnetic Field on MCFâ€7 Human Breast Cancer Cells. ChemistrySelect, 2016, 1, 6092-6102.	0.7	3
550	Magnetite (Ferrites)-Supported Nano-Catalysts: Sustainable Applications in Organic Transformations. ACS Symposium Series, 2016, , 39-78.	0.5	7
551	The initial magnetic susceptibility of polydisperse ferrofluids: A comparison between experiment and theory over a wide range of concentration. Journal of Chemical Physics, 2016, 145, 084909.	1.2	13
552	Effects of coating molecules on the magnetic heating properties of Au-Fe3O4 heterodimer nanoparticles. Applied Physics Letters, 2016, 109, .	1.5	9
553	Superparamagnetic iron oxide nanoparticles (SPIONs) for targeted drug delivery. AIP Conference Proceedings, 2016, , .	0.3	1

#	Article	IF	Citations
554	Dynamic magnetic hysteresis and nonlinear susceptibility of antiferromagnetic nanoparticles. Journal of Applied Physics, 2016, 120, 053901.	1.1	7
555	In-flow detection of ultra-small magnetic particles by an integrated giant magnetic impedance sensor. Applied Physics Letters, 2016, 108, .	1.5	30
556	On the magnetic anisotropy and nuclear relaxivity effects of Co and Ni doping in iron oxide nanoparticles. Journal of Applied Physics, 2016, 119, .	1.1	19
557	Relationship between blocking temperature and strength of interparticle interaction in magnetic nanoparticle systems. Journal of Physics and Chemistry of Solids, 2016, 93, 79-81.	1.9	25
558	Streptavidin conjugation and quantificationâ€"a method evaluation for nanoparticles. Analytical and Bioanalytical Chemistry, 2016, 408, 4133-4149.	1.9	21
559	Porous Fe3O4 and gamma-Fe2O3 foams synthesized in air by sol-gel autocombustion. Journal of Alloys and Compounds, 2016, 684, 120-124.	2.8	29
560	Smart Polymeric-Based Microencapsulation: A Promising Synergic Combination. , 2016, , 577-604.		1
561	CdS Nanoparticles Fabricated from the Single-Source Precursor [Cd{Et₂NC(S)NP(S)(OiPr)₂}₂]: In Depth Experimental and Theoretical Studies. Crystal Growth and Design, 2016, 16, 3287-3296.	1.4	8
562	Surfactant Behavior of Amphiphilic Polymer-Tethered Nanoparticles. Langmuir, 2016, 32, 3567-3579.	1.6	22
563	Evaluation of High-Yield Purification Methods on Monodisperse PEG-Grafted Iron Oxide Nanoparticles. Langmuir, 2016, 32, 4259-4269.	1.6	45
564	Heparin-stabilised iron oxide for MR applications: a relaxometric study. Journal of Materials Chemistry B, 2016, 4, 3065-3074.	2.9	19
565	Structural, Morphological and Magnetic Properties of Nickel-Carbon Nanocomposites Prepared by Solid-Phase Pyrolysis of Ni Phthalocyanine. NATO Science for Peace and Security Series B: Physics and Biophysics, 2016, , 273-290.	0.2	3
566	Preparation and properties of a magnetic field responsive three-dimensional electrospun polymer scaffold. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 503, 79-87.	2.3	25
567	Boosted Hyperthermia Therapy by Combined AC Magnetic and Photothermal Exposures in Ag/Fe₃O₄ Nanoflowers. ACS Applied Materials & Interfaces, 2016, 8, 25162-25169.	4.0	107
568	â€œParticle-Freeâ€•Magnetic Actuation of Droplets on Superhydrophobic Surfaces Using Dissolved Paramagnetic Salts. Analytical Chemistry, 2016, 88, 9486-9494.	3.2	16
569	Metal-Filled Carbon Nanocapsules. , 2016, , 363-400.		0
570	Mesoporous Î³â€Iron Oxide Nanoparticles for Magnetically Triggered Release of Doxorubicin and Hyperthermia Treatment. Chemistry - A European Journal, 2016, 22, 17020-17028.	1.7	39
571	A computational study of cancer hyperthermia based on vascular magnetic nanoconstructs. Royal Society Open Science, 2016, 3, 160287.	1.1	38

#	Article	IF	Citations
572	Surfactant-Free Emulsion Polymerization Stabilized by Ultrasmall Superparamagnetic Iron Oxide Particles Using Acrylic Acid or Methacrylic Acid as Auxiliary Comonomers. Macromolecules, 2016, 49, 7609-7624.	2.2	22
573	Temperature dependence of exchange coupling in epitaxial<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">Fe</mml:mi><mml:mn mathvariant="bold">3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn mathvariant="bold">4</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi mathvariant="	1.1	40
574	Manufacturing Man-Made Magnetosomes: High-Throughput In Situ Synthesis of Biomimetic Magnetite Loaded Nanovesicles. Macromolecular Bioscience, 2016, 16, 1555-1561.	2.1	8
575	Noble Metal Nanoparticles: Plant-Mediated Synthesis, Mechanistic Aspects of Synthesis, and Applications. Industrial & Engineering Chemistry Research, 2016, 55, 9557-9577.	1.8	323
576	Infraredâ€Emitting QDs for Thermal Therapy with Realâ€Time Subcutaneous Temperature Feedback. Advanced Functional Materials, 2016, 26, 6060-6068.	7.8	117
577	Microwave-assisted synthesis of highly crystalline, multifunctional iron oxide nanocomposites for imaging applications. RSC Advances, 2016, 6, 83520-83528.	1.7	28
578	Difunctional fluorescent HSA modified CoFe₂O₄ magnetic nanoparticles for cell imaging. Journal of Materials Chemistry B, 2016, 4, 6344-6349.	2.9	10
579	Infrared thermography based magnetic hyperthermia study in Fe3O4 based magnetic fluids. Infrared Physics and Technology, 2016, 78, 173-184.	1.3	28
580	Angle-dependent loop shifts in antiferromagnetic nanoparticles. Journal Physics D: Applied Physics, 2016, 49, 325001.	1.3	1
581	Dextranâ€Coated Ultrasmall Gd₂O₃ Nanoparticles as Potential T₁ MRI Contrast Agent. ChemistrySelect, 2016, 1, 6086-6091.	0.7	6
582	Deferasirox-coated iron oxide nanoparticles as a potential cytotoxic agent. MedChemComm, 2016, 7, 2290-2298.	3.5	17
584	Spin morphologies and heat dissipation in spherical assemblies of magnetic nanoparticles. Physical Review B, 2016, 94, .	1.1	29
585	Change in the magnetic properties of nanoferrihydrite with an increase in the volume of nanoparticles during low-temperature annealing. Physics of the Solid State, 2016, 58, 1782-1791.	0.2	24
586	Simulation of magnetophoresis of magnetic nanoparticles in liquids. Journal Physics D: Applied Physics, 2016, 49, 335005.	1.3	4
587	Influence of dipolar interactions on the magnetic susceptibility spectra of ferrofluids. Physical Review E, 2016, 93, 063117.	0.8	54
588	Magnetic anisotropy and superparamagnetism in La 0.6 Ca 0.4 MnO 3 , La 0.6 Sr 0.4 MnO 3 and their mixed composition 0.875 La 0.6 Ca 0.4 MnO 3 /0.125 La 0.6 Sr 0.4 MnO 3 , agglomerated at different temperatures. Materials Chemistry and Physics, 2016, 182, 429-438.	2.0	11
589	Magnetic study on biodistribution and biodegradation of oral magnetic nanostructures in the rat gastrointestinal tract. Nanoscale, 2016, 8, 15041-15047.	2.8	13
590	Magnetic hyperthermia with magnetite nanoparticles: electrostatic and polymeric stabilization. Colloid and Polymer Science, 2016, 294, 1541-1550.	1.0	23

#	Article	IF	Citations
591	Removal of electrostatic artifacts in magnetic force microscopy by controlled magnetization of the tip: application to superparamagnetic nanoparticles. Scientific Reports, 2016, 6, 26293.	1.6	41
592	Triggered self-assembly of magnetic nanoparticles. Scientific Reports, 2016, 6, 23145.	1.6	17
593	Preparation of electroconductive, magnetic, antibacterial, and ultraviolet-blocking cotton fabric using reduced graphene oxide nanosheets and magnetite nanoparticles. Fibers and Polymers, 2016, 17, 1579-1588.	1.1	17
594	Fundamentals of Magnetism. , 2016, , 1-49.		0
595	Actuating Soft Matter with Magnetic Torque. Advanced Functional Materials, 2016, 26, 3859-3880.	7.8	198
596	Temperature-dependent dynamic correlations in suspensions of magnetic nanoparticles in a broad range of concentrations: a combined experimental and theoretical study. Physical Chemistry Chemical Physics, 2016, 18, 18342-18352.	1.3	35
597	Small but Mighty: Nanoparticles Probe Cellular Signaling Pathways. Developmental Cell, 2016, 37, 397-398.	3.1	3
598	pHLIP-modified magnetic nanoparticles for targeting acidic diseased tissue. RSC Advances, 2016, 6, 60196-60199.	1.7	18
599	Tuneable magnetic properties of carbon-shielded NiPt-nanoalloys. RSC Advances, 2016, 6, 52427-52433.	1.7	9
600	Characterization of magnetic nanoparticles from Magnetospirillum Gryphiswaldense as potential theranostics tools. Contrast Media and Molecular Imaging, 2016, 11, 139-145.	0.4	34
601	Labelâ€Free Microfluidic Manipulation of Particles and Cells in Magnetic Liquids. Advanced Functional Materials, 2016, 26, 3916-3932.	7.8	123
602	Predicting the Selfâ€Assembly of Superparamagnetic Colloids under Magnetic Fields. Advanced Functional Materials, 2016, 26, 3837-3858.	7.8	94
603	Design of Magnetic Nanoparticles for MRI-Based Theranostics. Springer Series in Biomaterials Science and Engineering, 2016, , 3-37.	0.7	1
604	Nanochemistry and Nanomedicine for Nanoparticle-based Diagnostics and Therapy. Chemical Reviews, 2016, 116, 2826-2885.	23.0	1,201
605	Calibration standard of body tissue with magnetic nanocomposites for MRI and X-ray imaging. Journal of Magnetism and Magnetic Materials, 2016, 405, 78-87.	1.0	2
606	Mechanochemical synthesis of MnZn ferrite nanoparticles suitable for biocompatible ferrofluids. Ceramics International, 2016, 42, 1545-1551.	2.3	20
607	The Phase Diagrams and Reentrant Phenomena in a Cylindrical Transverse Ising Nanowire with the Presence of Crystal Field. Journal of Superconductivity and Novel Magnetism, 2016, 29, 1903-1908.	0.8	3
608	A facile microwave synthetic route for ferrite nanoparticles with direct impact in magnetic particle hyperthermia. Materials Science and Engineering C, 2016, 63, 663-670.	3.8	23

#	Article	IF	Citations
609	Blocking temperature of interacting magnetic nanoparticles with uniaxial and cubic anisotropies from Monte Carlo simulations. Journal of Magnetism and Magnetic Materials, 2016, 409, 50-55.	1.0	24
610	Magnetic assembly of 3D cell clusters: visualizing the formation of an engineered tissue. Cell Proliferation, 2016, 49, 134-144.	2.4	29
611	Magnetomotive Optical Coherence Elastography for Magnetic Hyperthermia Dosimetry Based on Dynamic Tissue Biomechanics. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 104-119.	1.9	18
612	Revealing the signature of dipolar interactions in dynamic spectra of polydisperse magnetic nanoparticles. Soft Matter, 2016, 12, 3507-3513.	1.2	70
613	Investigation of the Capture of Magnetic Particles From High-Viscosity Fluids Using Permanent Magnets. IEEE Transactions on Biomedical Engineering, 2016, 63, 372-378.	2.5	12
614	MÃ¶ssbauer and X-ray study of biodegradation of 57Fe3 O 4 magnetic nanoparticles in rat brain. Hyperfine Interactions, 2016, 237, 1.	0.2	1
615	Magnetic properties of heat treated bacterial ferrihydrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2016, 410, 171-180.	1.0	52
616	Stable, polymer-directed and SPION-nucleated magnetic amphiphilic block copolymer nanoprecipitates with readily reversible assembly in magnetic fields. Nanoscale, 2016, 8, 7224-7231.	2.8	9
617	Porous magnetite secondary particles prepared by surfactant-free solvothermal method with non-contact heat-assisted drug releasing property. Advanced Powder Technology, 2016, 27, 513-520.	2.0	3
618	Structure and magnetism in Cr-embedded Co nanoparticles. Journal of Physics Condensed Matter, 2016, 28, 046003.	0.7	1
619	A coil system for real-time magnetic fluid hyperthermia microscopy studies. International Journal of Hyperthermia, 2016, 32, 112-120.	1.1	25
620	Remote triggering of thermoresponsive PNIPAM by iron oxide nanoparticles. RSC Advances, 2016, 6, 5641-5652.	1.7	14
621	Characterisation of iron oxide nanoparticles by MÃ¶ssbauer spectroscopy at ambient temperature. Journal of Magnetism and Magnetic Materials, 2016, 399, 123-129.	1.0	38
622	Synthesis and characterization of near-infrared fluorescent and magnetic iron zero-valent nanoparticles. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 315, 1-7.	2.0	9
623	Ferrimagnetic nanocrystal assemblies as versatile magnetic particle hyperthermia mediators. Materials Science and Engineering C, 2016, 58, 187-193.	3.8	68
624	Magnetic Capture of a Molecular Biomarker from Synovial Fluid in a Rat Model of Knee Osteoarthritis. Annals of Biomedical Engineering, 2016, 44, 1159-1169.	1.3	13
625	A Feasibility Study of Nonlinear Spectroscopic Measurement of Magnetic Nanoparticles Targeted to Cancer Cells. IEEE Transactions on Biomedical Engineering, 2017, 64, 972-979.	2.5	7
626	Effect of zinc substitution on Co-Ga and Co-Tl ferrite nanoparticles prepared by hydrothermal route. Materials Research Innovations, 2017, 21, 61-64.	1.0	1

#	Article	IF	Citations
627	The cellular magnetic response and biocompatibility of biogenic zinc- and cobalt-doped magnetite nanoparticles. Scientific Reports, 2017, 7, 39922.	1.6	54
628	Understanding the dynamics of superparamagnetic particles under the influence of high field gradient arrays. Physics in Medicine and Biology, 2017, 62, 2333-2360.	1.6	31
629	Exploiting Uptake of Nanoparticles by Phagocytes for Cancer Treatment. Methods in Molecular Biology, 2017, 1530, 355-367.	0.4	5
630	Sensor fusion of electron paramagnetic resonance and magnetorelaxometry data for quantitative magnetic nanoparticle imaging. Journal Physics D: Applied Physics, 2017, 50, 085008.	1.3	0
631	The effect of underlayers on the reversal of perpendicularly magnetized multilayer thin films for magnetic micro- and nanoparticles. Journal of Applied Physics, 2017, 121, 043908.	1.1	2
632	Emergent propagation modes of ferromagnetic swimmers in constrained geometries. Journal of Applied Physics, 2017, 121, .	1.1	9
633	Multi-color magnetic nanoparticle imaging using magnetorelaxometry. Physics in Medicine and Biology, 2017, 62, 3139-3157.	1.6	24
634	Superparamagnetic iron oxide nanoparticles functionalized by peptide nucleic acids. RSC Advances, 2017, 7, 15500-15512.	1.7	43
635	Enhancing the Magnetic Heating Capacity of Iron Oxide Nanoparticles through Their Postproduction Incorporation into Iron Oxideâ€“Gold Nanocomposites. European Journal of Inorganic Chemistry, 2017, 2017, 2386-2395.	1.0	11
636	Magnetic Characterization of Iron Oxide Nanoparticles for Biomedical Applications. Methods in Molecular Biology, 2017, 1570, 47-71.	0.4	70
637	Improved tissue cryopreservation using inductive heating of magnetic nanoparticles. Science Translational Medicine, 2017, 9, .	5.8	213
638	Effect of cobalt doping on crystallinity, stability, magnetic and optical properties of magnetic iron oxide nano-particles. Journal of Magnetism and Magnetic Materials, 2017, 432, 198-207.	1.0	47
639	Computer Simulations of Contributions of NÃ©el and Brown Relaxation to Specific Loss Power of Magnetic Fluids in Hyperthermia. Journal of Electronic Materials, 2017, 46, 2393-2405.	1.0	20
640	Cobalt nanoparticles for biomedical applications: Facile synthesis, physiochemical characterization, cytotoxicity behavior and biocompatibility. Applied Surface Science, 2017, 414, 171-187.	3.1	128
641	Theranostic multimodal potential of magnetic nanoparticles actuated by non-heating low frequency magnetic field in the new-generation nanomedicine. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	47
642	Modeling drug release from functionalized magnetic nanoparticles actuated by non-heating low frequency magnetic field. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	10
643	Thermal Decomposition Synthesis of Iron Oxide Nanoparticles with Diminished Magnetic Dead Layer by Controlled Addition of Oxygen. ACS Nano, 2017, 11, 2284-2303.	7.3	286
644	Carborane-layered double hydroxide nanohybrids for potential targeted- and magnetically targeted-BNCT applications. Dalton Transactions, 2017, 46, 3303-3310.	1.6	31

#	Article	IF	Citations
645	Size and Shape Control Synthesis of Iron Oxideâ€“Based Nanoparticles: Current Status and Future Possibility. , 2017, , 39-81.		3
646	Degradation of magnetite nanoparticles in biomimetic media. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	17
647	Magnetic properties of polycrystalline cobalt nanoparticles. AIP Advances, 2017, 7, .	0.6	28
648	Origin of reduced magnetization and domain formation in small magnetite nanoparticles. Scientific Reports, 2017, 7, 45997.	1.6	113
649	Polyol-Mediated Synthesis, Microstructure and Magnetic Properties of Hierarchical Sphere, Rod, and Polyhedral Î±-Fe2O3 Oxide Particles. Journal of Electronic Materials, 2017, 46, 3615-3621.	1.0	8
650	Magnetic characteristics measurements of ethanolâ€“water mixtures using a hybrid-type high-temperature superconducting quantum-interference device magnetometer. AIP Advances, 2017, 7, 056707.	0.6	2
651	Iron oxide/PLGA nanoparticles for magnetically controlled drug release. International Journal of Applied Electromagnetics and Mechanics, 2017, 53, S53-S60.	0.3	7
652	Nonlinear Nonequilibrium Simulations of Magnetic Nanoparticles. , 2017, , 121-156.		1
653	A Functional Iron Oxide Nanoparticles Modified with PLA-PEG-DG as Tumor-Targeted MRI Contrast Agent. Pharmaceutical Research, 2017, 34, 1683-1692.	1.7	52
654	Effect of size and shape dependent anisotropy on superparamagnetic property of CoFe 2 O 4 nanoparticles and nanoplatelets. Physica B: Condensed Matter, 2017, 520, 152-163.	1.3	24
655	Synthesis of magnetic nanoparticles by atmospheric-pressure glow discharge plasma-assisted electrolysis. Japanese Journal of Applied Physics, 2017, 56, 076201.	0.8	19
656	On the â€˜centre of gravityâ€™ method for measuring the composition of magnetite/maghemite mixtures, or the stoichiometry of magnetite-maghemite solid solutions, via⁵⁷Fe MÃ¶ssbauer spectroscopy. Journal Physics D: Applied Physics, 2017, 50, 265005.	1.3	75
657	Magnetic Core-Size Distribution of Magnetic Nanoparticles Estimated From Magnetization, AC Susceptibility, and Relaxation Measurements. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	9
658	Magnetic hyperthermia in magnetic nanoemulsions: Effects of polydispersity, particle concentration and medium viscosity. Journal of Magnetism and Magnetic Materials, 2017, 441, 310-327.	1.0	62
659	Unusual enhancement of effective magnetic anisotropy with decreasing particle size in maghemite nanoparticles. Applied Physics Letters, 2017, 110, .	1.5	28
660	Bimagnetic Core/Shell Nanoparticles: Current Status and Future Possibilities. , 2017, , 83-119.		4
661	Dynamics of magnetic nanoparticles in a viscous fluid driven by rotating magnetic fields. Physical Review B, 2017, 95, .	1.1	26
662	Synthesis and comparative characteristics of biological activities of (La, Sr)MnO3 and Fe3O4 nanoparticles. European Journal of Nanomedicine, 2017, 9, .	0.6	8

#	Article	IF	Citations
663	Physical mechanism and modeling of heat generation and transfer in magnetic fluid hyperthermia through NÃ©lian and Brownian relaxation: a review. BioMedical Engineering OnLine, 2017, 16, 36.	1.3	126
664	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	7.3	976
665	The internal structure of magnetic nanoparticles determines the magnetic response. Nanoscale, 2017, 9, 5129-5140.	2.8	49
666	Biosensing utilizing magnetic markers and superconducting quantum interference devices. Superconductor Science and Technology, 2017, 30, 053002.	1.8	37
667	MgFe2O4/ZrO2 composite nanoparticles for hyperthermia applications. Journal of Magnetism and Magnetic Materials, 2017, 428, 333-339.	1.0	14
668	Study of specific loss power of magnetic fluids with various viscosities. Journal of Magnetism and Magnetic Materials, 2017, 428, 36-42.	1.0	31
669	Neural recording and modulation technologies. Nature Reviews Materials, 2017, 2, .	23.3	414
670	Exogenous iron redistribution between brain and spleen after the administration of the 57Fe3O4 ferrofluid into the ventricle of the brain. Journal of Magnetism and Magnetic Materials, 2017, 427, 41-47.	1.0	9
671	Nanoparticles for radiooncology: Mission, vision, challenges. Biomaterials, 2017, 120, 155-184.	5.7	87
672	Interaction of Size-Tailored PEGylated Iron Oxide Nanoparticles with Lipid Membranes and Cells. ACS Biomaterials Science and Engineering, 2017, 3, 249-259.	2.6	38
673	Superparamagnetic colloids in viscous fluids. Scientific Reports, 2017, 7, 7778.	1.6	17
674	Free energy calculations for rings and chains formed by dipolar hard spheres. Soft Matter, 2017, 13, 7870-7878.	1.2	15
675	Growth Mechanism of Pine-leaf-like Nanostructure from the Backbone of SrCO₃ Nanorods using LaMerâ€™s Surface Diffusion: Impact of Higher Surface Energy (Î³ = 38.9) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 262 Td Calculations. Crystal Growth and Design, 2017, 17, 6394-6406.	1.4	5
676	Flow cytometry as a rapid analytical tool to determine physiological responses to changing O2 and iron concentration by Magnetospirillum gryphiswaldense strain MSR-1. Scientific Reports, 2017, 7, 13118.	1.6	18
677	Practical methods for generating alternating magnetic fields for biomedical research. Review of Scientific Instruments, 2017, 88, 084301.	0.6	30
678	Quantum dots: from fluorescence to chemiluminescence, bioluminescence, electrochemiluminescence, and electrochemistry. Nanoscale, 2017, 9, 13364-13383.	2.8	79
679	Interplay between superparamagnetic and blocked behavior in an ensemble of lanthanumâ€“strontium manganite nanoparticles. Physical Chemistry Chemical Physics, 2017, 19, 27015-27024.	1.3	16
680	Development and application of immobilized surfactant in mass spectrometry-based proteomics. RSC Advances, 2017, 7, 44282-44288.	1.7	6

#	Article	IF	Citations
681	Magnetic nanohydrogel obtained by miniemulsion polymerization of poly(acrylic acid) grafted onto derivatized dextran. Carbohydrate Polymers, 2017, 178, 378-385.	5.1	11
682	Effects of temperature and PEG grafting density on the translocation of PEGylated nanoparticles across asymmetric lipid membrane. Colloids and Surfaces B: Biointerfaces, 2017, 160, 92-100.	2.5	8
683	Gold-Loaded Nanoporous Ferric Oxide Nanocubes with Peroxidase-Mimicking Activity for Electrocatalytic and Colorimetric Detection of Autoantibody. Analytical Chemistry, 2017, 89, 11005-11013.	3.2	128
684	Uncertainties in the estimation of specific absorption rate during radiofrequency alternating magnetic field induced non-adiabatic heating of ferrofluids. Journal Physics D: Applied Physics, 2017, 50, 455005.	1.3	37
685	Self-assembly of a binary mixture of iron oxide nanoparticles in Langmuir film: X-ray scattering study. Materials Chemistry and Physics, 2017, 202, 31-39.	2.0	4
686	Magnetic nanoparticles: reactive oxygen species generation and potential therapeutic applications. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	41
688	Evaluation of easy-axis dynamics in a magnetic fluid by measurement and analysis of the magnetization curve in an alternating magnetic field. Applied Physics Express, 2017, 10, 085001.	1.1	22
689	Magnetic electrospun short nanofibers wrapped graphene oxide as a promising biomaterials for guiding cellular behavior. Materials Science and Engineering C, 2017, 81, 314-320.	3.8	15
690	Experimental determination of the frequency and field dependence of Specific Loss Power in Magnetic Fluid Hyperthermia. Journal of Magnetism and Magnetic Materials, 2017, 444, 154-160.	1.0	21
691	Magnetic properties of NiO nano particles: Contributions of the antiferromagnetic and ferromagnetic subsystems in different magnetic field ranges up to 250 kOe. Physics of the Solid State, 2017, 59, 1547-1552.	0.2	12
692	Single nanoparticles magnetization curves by controlled tip magnetization magnetic force microscopy. Nanoscale, 2017, 9, 18000-18011.	2.8	27
693	Magnetic Nanoparticles for Bioseparation, Biosensing, and Regenerative Medicine. , 2017, , 343-364.		0
694	Synthetic Study and Merits of Fe3O4 Nanoparticles as Emerging Material. Journal of Cluster Science, 2017, 28, 2369-2400.	1.7	18
695	Nanoparticles for magnetic hyperthermia. , 2017, , 485-511.		18
696	FMR and EPR in Ni@C nanocomposites: Size and concentration effects. Journal of Contemporary Physics, 2017, 52, 147-154.	0.1	4
697	Equilibrium magnetization and magnetization relaxation of multicore magnetic nanoparticles. Physical Review B, 2017, 95, .	1.1	41
698	PSynthesis, characterization and electromagnetic properties of Zn-substituted CoFe2O4 via sucrose assisted combustion route. Journal of Magnetism and Magnetic Materials, 2017, 426, 670-679.	1.0	40
699	The magnetic introduction of magnetite nanoparticles into live cells for radiosensibility enhancement. Journal of Magnetism and Magnetic Materials, 2017, 427, 111-113.	1.0	6

#	Article	IF	Citations
700	Sensitive magnetic biodetection using magnetic multi-core nanoparticles and RCA coils. Journal of Magnetism and Magnetic Materials, 2017, 427, 14-18.	1.0	12
701	Clustering of carboxylated magnetite nanoparticles through polyethylenimine: Covalent versus electrostatic approach. Journal of Magnetism and Magnetic Materials, 2017, 427, 280-288.	1.0	11
702	Production of nearly monodisperse Fe3O4 and Fe@Fe3O4 nanoparticles in aqueous medium and their surface modification for biomedical applications. International Journal of Modern Physics B, 2017, 31, 1750014.	1.0	2
703	Particle size- and concentration-dependent separation of magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 427, 320-324.	1.0	17
704	Size-dependent MR relaxivities of magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 427, 122-126.	1.0	17
705	Dynamic Magnetic Properties of a Mixed Spin Ising Double-Walled Ferromagnetic Nanotubes: A Dynamic Monte Carlo Study. Journal of Superconductivity and Novel Magnetism, 2017, 30, 839-844.	0.8	11
706	Inorganic/Organic Multilayer Capsule Composition for Improved Functionality and External Triggering. Advanced Materials Interfaces, 2017, 4, 1600338.	1.9	53
707	AC susceptibility as a tool to probe the dipolar interaction in magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 421, 138-151.	1.0	31
708	The effect of polydispersity on the magnetostatic properties of concentrated ferrofluids. Journal of Magnetism and Magnetic Materials, 2017, 431, 205-208.	1.0	0
709	Role of magnetic concentration in modulating the magnetic properties of ultra-small FePt nanoparticles. Inorganica Chimica Acta, 2017, 460, 114-118.	1.2	5
710	Effect of alignment of easy axes on dynamic magnetization of immobilized magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 427, 162-167.	1.0	45
711	Size analysis of single-core magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 427, 19-24.	1.0	23
712	Magnetic nanoparticles for precision oncology: theranostic magnetic iron oxide nanoparticles for image-guided and targeted cancer therapy. Nanomedicine, 2017, 12, 73-87.	1.7	213
713	Cluster analysis in systems of magnetic spheres and cubes. Journal of Magnetism and Magnetic Materials, 2017, 431, 201-204.	1.0	17
714	Intracellular uptake of magnetite nanoparticles: A focus on physico-chemical characterization and interpretation of in vitro data. Materials Science and Engineering C, 2017, 70, 161-168.	3.8	14
715	Development of a compact and sensitive AC magnetometer for evaluation of magnetic nanoparticles solution. , 2017, , .		4
716	In situ analysis of the formation steps of gold nanoparticles by oleylamine reduction. Journal of Structural Chemistry, 2017, 58, 1403-1410.	0.3	1
717	Adaptively time stepping the stochastic Landau-Lifshitz-Gilbert equation at nonzero temperature: Implementation and validation in MuMax3. AIP Advances, 2017, 7, .	0.6	76

#	Article	IF	Citations
718	Cancer resistance to treatment and antiresistance tools offered by multimodal multifunctional nanoparticles. Cancer Nanotechnology, 2017, 8, 7.	1.9	39
719	Hepatocyte-based flow analytical bioreactor for online xenobiotics metabolism bioprediction. Nanobiomedicine, 2017, 4, 184954351770289.	4.4	0
720	4.39 Hybrid Magnetic Nanoparticles for Targeted Delivery. , 2017, , 750-771.		1
721	Magnetic Nanoparticles: From Design and Synthesis to Real World Applications. Nanomaterials, 2017, 7, 243.	1.9	436
722	Influence of Sterilization and Preservation Procedures on the Integrity of Serum Protein-Coated Magnetic Nanoparticles. Nanomaterials, 2017, 7, 453.	1.9	18
723	Investigation of Oriented Magnetic Field Effects on Entropy Generation in an Inclined Channel Filled with Ferrofluids. Entropy, 2017, 19, 377.	1.1	12
725	Magnetothermal genetic deep brain stimulation of motor behaviors in awake, freely moving mice. ELife, 2017, 6, .	2.8	115
726	Practical Solution for Effective Whole-Body Magnetic Fluid Hyperthermia Treatment. Journal of Nanomaterials, 2017, 2017, 1-7.	1.5	6
727	Crystal structures and magnetic properties of silica and polyethylene glycol (PEG-4000) â€" Encapsulated Zn<inf>0.5</inf>Ni<inf>0.5</inf>Fe<inf>2</inf>O<inf>4</inf> magnetic nanoparticles. , 2017, , .		3
728	Interaction Effects in Assembly of Magnetic Nanoparticles. Nanoscale Research Letters, 2017, 12, 489.	3.1	62
729	Magnetic core-size distribution of magnetic nanoparticles estimated from magnetization, AC susceptibility and relaxation measurements. , 2017, , .		0
730	A core-shell-surface layer model to explain the size dependence of effective magnetic anisotropy in magnetic nanoparticles. , 2017, , .		2
731	FOLIC ACID-CONJUGATED DOXORUBICIN-LOADED PHOTOSENSITIZING MANGANESE FERRITE NANOPARTICLES: SYNTHESIS, CHARACTERIZATION AND ANTICANCER ACTIVITY AGAINST HUMAN CERVICAL CARCINOMA CELL LINE (HELA). International Journal of Pharmacy and Pharmaceutical Sciences, 2017, 9, 60.	0.3	5
732	Self-assembly of chiral fluorescent nanoparticles based on water-soluble L-tryptophan derivatives of p-tert-butylthiacalix[4]arene. Beilstein Journal of Nanotechnology, 2017, 8, 1825-1835.	1.5	9
733	Unexpected compositional and structural modification of CoPt3 nanoparticles by extensive surface purification. Nanoscale, 2018, 10, 6382-6392.	2.8	7
734	Ultra-high sensitivity of luminescent ZnCr₂O₄ nanoparticles toward nitroaromatic explosives sensing. Dalton Transactions, 2018, 47, 5011-5018.	1.6	21
735	Extended LaMer Synthesis of Cobalt-Doped Ferrite. IEEE Magnetics Letters, 2018, 9, 1-5.	0.6	6
736	Pressure and compressibility factor of bidisperse magnetic fluids. Journal of Physics Condensed Matter, 2018, 30, 145101.	0.7	2

#	Article	IF	Citations
737	Synthesis of highly stable Î³-Fe₂O₃ ferrofluid dispersed in liquid paraffin, motor oil and sunflower oil for heat transfer applications. RSC Advances, 2018, 8, 13970-13975.	1.7	27
738	Properties of polycrystalline nanoparticles with uniaxial and cubic types of magnetic anisotropy of individual grains. Journal of Magnetism and Magnetic Materials, 2018, 460, 278-284.	1.0	5
739	Polymerâ€“Magnetic Composite Fibers for Remote-Controlled Drug Release. ACS Applied Materials & Interfaces, 2018, 10, 15524-15531.	4.0	61
740	Dipolar magnetism and electrostatic repulsion of colloidal interacting nanoparticle system. Japanese Journal of Applied Physics, 2018, 57, 02CC06.	0.8	4
741	Magnetic Vortices as Efficient Nano Heaters in Magnetic Nanoparticle Hyperthermia. Scientific Reports, 2018, 8, 1224.	1.6	60
742	La_{1â^'x}Sr_xMnO₃ Nanoparticles for Magnetic Hyperthermia. Physica Status Solidi (B): Basic Research, 2018, 255, 1700587.	0.7	9
743	Bifunctional CoFe₂O₄/ZnO Core/Shell Nanoparticles for Magnetic Fluid Hyperthermia with Controlled Optical Response. Journal of Physical Chemistry C, 2018, 122, 3047-3057.	1.5	38
744	Laser direct writing (LDW) of magnetic structures. AIP Advances, 2018, 8, .	0.6	6
745	Microfluidic-Assisted Production of Size-Controlled Superparamagnetic Iron Oxide Nanoparticles-Loaded Poly(methyl methacrylate) Nanohybrids. Langmuir, 2018, 34, 1981-1991.	1.6	18
746	Vortex-chirality-dependent standing spin-wave modes in soft magnetic nanotubes. Journal of Applied Physics, 2018, 123, .	1.1	13
747	Synthesis, Radiolabelling and In Vitro Imaging of Multifunctional Nanoceramics. ChemNanoMat, 2018, 4, 361-372.	1.5	13
748	Targeted and theranostic applications for nanotechnologies in medicine. , 2018, , 399-511.		7
749	Core/Shell Nanoparticles of Non-Stoichiometric Znâ€“Mn and Znâ€“Co Ferrites as Thermosensitive Heat Sources for Magnetic Fluid Hyperthermia. Journal of Physical Chemistry C, 2018, 122, 3028-3038.	1.5	68
750	Advances in Magnetic Nanoparticles for Biomedical Applications. Advanced Healthcare Materials, 2018, 7, 1700845.	3.9	453
751	Magnetic iodixanol â€“Âa novel contrast agent and its early characterization. JMV-Journal De Medecine Vasculaire, 2018, 43, 10-19.	0.1	2
752	Highly magnetic Co nanoparticles fabricated by X-ray radiolysis. Radiation Physics and Chemistry, 2018, 144, 111-115.	1.4	7
753	Merging Icosahedral Boron Clusters and Magnetic Nanoparticles: Aiming toward Multifunctional Nanohybrid Materials. Inorganic Chemistry, 2018, 57, 462-470.	1.9	24
754	Structure, Dynamics, and Thermodynamics of Ferrofluids. Springer Proceedings in Physics, 2018, , 185-204.	0.1	1

#	Article	IF	Citations
755	Synthesis of NiO nanoparticles via a green route using Monsonia burkeana: The physical and biological properties. Journal of Photochemistry and Photobiology B: Biology, 2018, 182, 18-26.	1.7	58
756	Empirical expression for DC magnetization curve of immobilized magnetic nanoparticles for use in biomedical applications. AIP Advances, 2018, 8, 056803.	0.6	10
757	Insight from X-ray Absorption Spectroscopy to Octahedral/Tetrahedral Site Distribution in Sm-Doped Iron Oxide Magnetic Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 8543-8552.	1.5	17
758	The role of dipole interactions in hyperthermia heating colloidal clusters of densely-packed superparamagnetic nanoparticles. Scientific Reports, 2018, 8, 4704.	1.6	62
759	Magnetic stimulus responsive vancomycin drug delivery system based on chitosan microbeads embedded with magnetic nanoparticles. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2169-2176.	1.6	31
760	Commentary on the clinical and preclinical dosage limits of interstitially administered magnetic fluids for therapeutic hyperthermia based on current practice and efficacy models. International Journal of Hyperthermia, 2018, 34, 671-686.	1.1	41
761	Introduction to Nanomedicine and Cancer Therapy. Springer Theses, 2018, , 1-36.	0.0	1
762	Magnetic and magnetothermal studies of pure and doped gadolinium silicide nanoparticles for self-controlled hyperthermia applications. Journal of Magnetism and Magnetic Materials, 2018, 449, 137-144.	1.0	15
763	Detailed toxicity evaluation of Î²-cyclodextrin coated iron oxide nanoparticles for biomedical applications. International Journal of Biological Macromolecules, 2018, 110, 357-365.	3.6	38
764	Effect of orientational ordering of magnetic nanoemulsions immobilized in agar gel on magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2018, 451, 254-268.	1.0	27
765	Inhalable particulate drug delivery systems for lung cancer therapy: Nanoparticles, microparticles, nanocomposites and nanoaggregates. Journal of Controlled Release, 2018, 269, 374-392.	4.8	263
766	Novel SO 3 H functionalized magnetic nanoporous silica/polymer nanocomposite as a carrier in a dual-drug delivery system for anticancer therapy. Microporous and Mesoporous Materials, 2018, 263, 96-105.	2.2	17
767	Multifunctional PEG-carboxylate copolymer coated superparamagnetic iron oxide nanoparticles for biomedical application. Journal of Magnetism and Magnetic Materials, 2018, 451, 710-720.	1.0	55
768	Dynamic morphogenesis of dendritic structures formation in hen egg white lysozyme fibrils doped with magnetic nanoparticles. Colloids and Surfaces B: Biointerfaces, 2018, 161, 457-463.	2.5	6
769	Two-step relaxation process of colloidal magnetic nanoclusters under pulsed fields. Applied Physics Express, 2018, 11, 075001.	1.1	25
770	Pulsed Field-Induced Magnetization Switching in Antiferromagnetic Ferrihydrite Nanoparticles. Physics of the Solid State, 2018, 60, 1973-1978.	0.2	13
771	Magnetic Gold Composite Nanoshells for Nanomedicine Devices. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2018, 65, 595-600.	0.1	0
772	Dynamic magnetic response of a ferrofluid in a static uniform magnetic field. Physical Review E, 2018, 98, .	0.8	25

#	Article	IF	Citations
773	Quantitative Description of Properties of Nickel-Containing Nanocomposites Affecting Their Magnetic Characteristics. Russian Journal of Inorganic Chemistry, 2018, 63, 1424-1426.	0.3	5
774	Ex-vivo evaluation of magnetite magnetic nanoparticles as magnetic hyperthermia carriers. , 2018, , .		2
775	Unraveling Nanoscale Magnetic Ordering in Fe3O4 Nanoparticle Assemblies via X-rays. Magnetochemistry, 2018, 4, 42.	1.0	12
776	Delivery of magnetic micro/nanoparticles and magnetic-based drug/cargo into arterial flow for targeted therapy. Drug Delivery, 2018, 25, 1963-1973.	2.5	86
777	New Approaches to Nanotheranostics: Polyfunctional Magnetic Nanoparticles Activated by Non-Heating Low-Frequency Magnetic Field Control Biochemical System with Molecular Locality and Selectivity. Nanotechnologies in Russia, 2018, 13, 215-239.	0.7	18
778	Influence of Local Atomic and Electronic Structures of Magnetite on Subtle Effects in HERFD-XANES Spectra. Journal of Structural Chemistry, 2018, 59, 1362-1367.	0.3	1
779	Field-induced control of ferrofluid emulsion rheology and droplet break-up in shear flows. Physics of Fluids, 2018, 30, 122110.	1.6	30
780	In-situ Open Cell TEM/STEM Environmental Study of Iron Oxides Nanoparticles and Sample-Beam Interaction in O2 gas. Microscopy and Microanalysis, 2018, 24, 260-261.	0.2	0
781	Environmental oxidative aging of iron oxide nanoparticles. Applied Physics Letters, 2018, 113, .	1.5	19
782	Bimetallic Nanoparticles: Enhanced Magnetic and Optical Properties for Emerging Biological Applications. Applied Sciences (Switzerland), 2018, 8, 1106.	1.3	187
783	Bulk superconductors: a roadmap to applications. Superconductor Science and Technology, 2018, 31, 103501.	1.8	152
784	Development and validation of broad-spectrum magnetic particle labelling processes for cell therapy manufacturing. Stem Cell Research and Therapy, 2018, 9, 248.	2.4	6
786	Precise Assembly of Genetically Functionalized Magnetosomes and Tobacco Mosaic Virus Particles Generates a Magnetic Biocomposite. ACS Applied Materials & Interfaces, 2018, 10, 37898-37910.	4.0	10
787	Magnetic Nanoparticles, Synthesis, Properties, and Applications. , 2018, , 1-40.		23
788	Possibility to use of the Fe3O4/Ta2O5 core-shell nanoparticles in radiotherapy. EPJ Web of Conferences, 2018, 185, 10008.	0.1	0
789	Mg_{0.5}Ni_{0.5}Fe₂O₄ nanoparticles as heating agents for hyperthermia treatment. Journal of the American Ceramic Society, 2019, 102, 2752-2760.	1.9	11
790	Magnetic Radio Modifier Based on the Fe₃O₄/Ta₂O₅ Nanoparticles. Defect and Diffusion Forum, 0, 386, 156-160.	0.4	0
791	Magnetogels: Prospects and Main Challenges in Biomedical Applications. Pharmaceutics, 2018, 10, 145.	2.0	28

#	Article	IF	Citations
792	Nanotheranostics and theranostic nanomedicine for diseases and cancer treatment. , 2018, , 41-68.		4
793	A Novel Magnetic Actuation Scheme to Disaggregate Nanoparticles and Enhance Passage across the Bloodâ€“Brain Barrier. Nanomaterials, 2018, 8, 3.	1.9	31
794	Asymmetric shift of exchange bias loop in Ni-Ni(OH)2 core-shell nanoparticles. Journal of Magnetism and Magnetic Materials, 2018, 465, 100-105.	1.0	11
795	Rapid Induction and Microwave Heat-Up Syntheses of CdSe Quantum Dots. ACS Omega, 2018, 3, 5399-5405.	1.6	13
796	Magnetic Particle Imaging (MPI). , 2018, , 115-133.		8
797	Alternating-Magnetic-Field-Mediated Wireless Manipulations of a Liquid Metal for Therapeutic Bioengineering. IScience, 2018, 3, 134-148.	1.9	66
798	Investigation of Magnetic Nanoparticle Motion under a Gradient Magnetic Field by an Electromagnet. Journal of Nanomaterials, 2018, 2018, 1-5.	1.5	22
799	Molecular communication using magnetic nanoparticles. , 2018, , .		16
800	A Combined Magneticâ€Acoustic Device for Simultaneous, Coaligned Application of Magnetic and Ultrasonic Fields. Advanced Materials Technologies, 2018, 3, 1800081.	3.0	4
801	Magnetic Hyperthermia and Radiation Therapy: Radiobiological Principles and Current Practice â€. Nanomaterials, 2018, 8, 401.	1.9	114
802	Applications, Surface Modification and Functionalization of Nickel Nanorods. Materials, 2018, 11, 45.	1.3	17
803	Covalent Organic Frameworks: From Materials Design to Biomedical Application. Nanomaterials, 2018, 8, 15.	1.9	134
804	Complex Magnetization Harmonics of Polydispersive Magnetic Nanoclusters. Nanomaterials, 2018, 8, 424.	1.9	7
805	Magnetic Nanoparticles Coated with a Thermosensitive Polymer with Hyperthermia Properties. Polymers, 2018, 10, 10.	2.0	59
806	Hyperthermia-Triggered Gemcitabine Release from Polymer-Coated Magnetite Nanoparticles. Polymers, 2018, 10, 269.	2.0	30
807	Magnetorelaxometry in the Presence of a DC Bias Field of Ferromagnetic Nanoparticles Bearing a Viscoelastic Corona. Sensors, 2018, 18, 1661.	2.1	11
808	Synthesis, Characterization, and Applications of Magnetic Nanoparticles Featuring Polyzwitterionic Coatings. Polymers, 2018, 10, 91.	2.0	147
809	Structure and size dependence of the magnetic properties of Ni@C nanocomposites. Journal of Magnetism and Magnetic Materials, 2018, 467, 150-159.	1.0	16

#	Article	IF	Citations
810	Role of particle size distribution and magnetic anisotropy on magnetization of antiferromagnetic nanoparticles. Journal of Physics and Chemistry of Solids, 2018, 123, 279-283.	1.9	10
811	Ultrasensitive detection enabled by nonlinear magnetization of nanomagnetic labels. Nanoscale, 2018, 10, 11642-11650.	2.8	48
812	In vitro assessment of antimicrobial and genotoxic effect of metallosurfactant based nickel hydroxide nanoparticles against Escherichia coli and its genomic DNA. Colloids and Surfaces B: Biointerfaces, 2018, 170, 99-108.	2.5	17
813	Magnetic relaxation in cobalt(ii)-based single-ion magnets influenced by distortion of the pseudotetrahedral [N2O2] coordination environment. Dalton Transactions, 2018, 47, 10861-10873.	1.6	27
814	Synthesis of Magnetic Iron Oxide Nanoparticles. , 2018, , 145-181.		10
815	Dynamic Magnetization Switching in NiO Nanoparticles: Pulsed Field Magnetometry Study. Journal of Superconductivity and Novel Magnetism, 2019, 32, 405-411.	0.8	6
816	1.04 Magnetic Nanoparticles. , 2019, , 89-140.		8
817	Magnetic and structural changes in Cu1â^'xAlx alloy matrix â€“ Embedded Fe nanoparticle systems. Journal of Magnetism and Magnetic Materials, 2019, 471, 549-554.	1.0	4
818	Magnetically triggered release of biologics. International Materials Reviews, 2019, 64, 63-90.	9.4	14
819	Elongated magnetic nanoparticles with high-aspect ratio: a nuclear relaxation and specific absorption rate investigation. Physical Chemistry Chemical Physics, 2019, 21, 18741-18752.	1.3	15
820	Magnetic and magneto-optical properties of assembly of nanodots obtained from solid-state dewetting of ultrathin cobalt layer. Journal of Physics Condensed Matter, 2019, 31, 495805.	0.7	4
821	Typical experiment vs. in-cell like conditions in magnetic hyperthermia: Effects of media viscosity and agglomeration. Journal of Magnetism and Magnetic Materials, 2019, 491, 165563.	1.0	8
823	Carbodiimide Conjugation of Latent Transforming Growth Factor Î²1 to Superparamagnetic Iron Oxide Nanoparticles for Remote Activation. International Journal of Molecular Sciences, 2019, 20, 3190.	1.8	14
824	Concurrent quantification of magnetic nanoparticles temperature and relaxation time. Medical Physics, 2019, 46, 4070-4076.	1.6	8
825	Evaluation of magnetic nanoparticles for magnetic fluid hyperthermia. International Journal of Hyperthermia, 2019, 36, 686-700.	1.1	101
826	Magnetism and structure in nanocomposite Fe nanoparticle/Al matrix films. Journal of Alloys and Compounds, 2019, 807, 151653.	2.8	1
827	Nickel Itaconate Thermolysis. Russian Journal of Inorganic Chemistry, 2019, 64, 786-797.	0.3	5
828	Antibacterial and Antifungal Activity of Novel Synthesized Neodymium-Substituted Cobalt Ferrite Nanoparticles for Biomedical Application. Processes, 2019, 7, 714.	1.3	40

#	Article	IF	Citations
829	Stimulation of Human Osteoblast Differentiation in Magneto-Mechanically Actuated Ferromagnetic Fiber Networks. Journal of Clinical Medicine, 2019, 8, 1522.	1.0	10
830	Shaping Magnetite Nanoparticles from First Principles. Physical Review Letters, 2019, 123, 186101.	2.9	21
831	Magnetic Stimulus Responsive DDS Based on Chitosan Microbeads Embedded with Magnetic Nanoparticles. , 2019, 2019, 1674-1677.		0
832	Magnetic Nanomedicine. , 2019, , 269-313.		0
833	Magnetic-Assisted Treatment of Liver Fibrosis. Cells, 2019, 8, 1279.	1.8	25
834	Printed Conformable Liquid Metal eâ€Skinâ€Enabled Spatiotemporally Controlled Bioelectromagnetics for Wireless Multisite Tumor Therapy. Advanced Functional Materials, 2019, 29, 1907063.	7.8	107
835	Origin of the Intrinsic Coercivity Field Variations of Îµ-Fe2O3. Russian Journal of Physical Chemistry A, 2019, 93, 377-383.	0.1	4
836	An Analytical Description of the Magnetic Conductance Across an Isolated Defect Region in a 1D-Ferromagnetic Lead. Spin, 2019, 09, .	0.6	6
837	Diffusion-jump model for the combined Brownian and NÃ©el relaxation dynamics of ferrofluids in the presence of external fields and flow. Physical Review E, 2019, 100, 022608.	0.8	17
838	Effect of volume fraction on chains of superparamagnetic colloids at equilibrium. European Physical Journal E, 2019, 42, 123.	0.7	13
839	Characterization of NÃ©el and Brownian Relaxations Isolated from Complex Dynamics Influenced by Dipole Interactions in Magnetic Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 28859-28866.	1.5	84
840	Distributive Activation Volumes of Magnetically Interacting Nanostructures. Journal of Physical Chemistry C, 2019, 123, 23732-23737.	1.5	4
841	Nonharmonic Driving Fields for Enhancement of Nanoparticle Heating Efficiency in Magnetic Hyperthermia. Physical Review Applied, 2019, 12, .	1.5	18
842	Inductive Thermal Effect of Ferrite Magnetic Nanoparticles. Materials, 2019, 12, 3208.	1.3	76
843	Supraferromagnetic correlations in clusters of magnetic nanoflowers. Applied Physics Letters, 2019, 115, .	1.5	34
844	Best Practices for Characterization of Magnetic Nanoparticles for Biomedical Applications. Analytical Chemistry, 2019, 91, 14159-14169.	3.2	87
845	Dissipation-induced rotation of suspended ferromagnetic nanoparticles. Physical Review B, 2019, 100, .	1.1	7
846	Magnetite Nanocrystals with a High Magnetic Anisotropy Constant due to the Particle Shape. Technical Physics Letters, 2019, 45, 878-881.	0.2	9

#	Article	IF	Citations
847	Competing cubic and uniaxial anisotropies on the energy barrier distribution of interacting magnetic nanoparticles. Physical Review B, 2019, 100, .	1.1	2
848	Development of an optical pumped gradiometric system to detect magnetic relaxation of magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2019, 475, 533-538.	1.0	14
849	Magnetic nanocarriers: Evolution of spinel ferrites for medical applications. Advances in Colloid and Interface Science, 2019, 265, 29-44.	7.0	397
850	Synthesis of size-tuneable Î²-FeOOH nanoellipsoids and a study of their morphological and compositional changes by reduction. CrystEngComm, 2019, 21, 1293-1301.	1.3	24
851	SAXS Analysis of Magnetic Field Influence on Magnetic Nanoparticle Clusters. Condensed Matter, 2019, 4, 55.	0.8	13
852	Enhancement of Magnetic Hyperthermia by Mixing Synthetic Inorganic and Biomimetic Magnetic Nanoparticles. Pharmaceutics, 2019, 11, 273.	2.0	29
853	Functionalization of iron oxide nanoparticles with small molecules and the impact on reactive oxygen species generation for potential cancer therapy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 576, 9-14.	2.3	36
854	Cobalt nanowire-based multifunctional platform for targeted chemo-photothermal synergistic cancer therapy. Colloids and Surfaces B: Biointerfaces, 2019, 180, 401-410.	2.5	29
855	Tomorrowâ€™s micromagnetic simulations. Journal of Applied Physics, 2019, 125, .	1.1	53
856	Control of the compositions and morphologies of uranium oxide nanocrystals in the solution phase: multi-monomer growth and self-catalysis. Nanoscale Advances, 2019, 1, 1314-1318.	2.2	5
857	Combining magnetic nanoparticles and icosahedral boron clusters in biocompatible inorganic nanohybrids for cancer therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 20, 101986.	1.7	27
858	Mechanism of magnetic heating in Mn-doped magnetite nanoparticles and the role of intertwined structural and magnetic properties. Nanoscale, 2019, 11, 10896-10910.	2.8	27
859	Impact of Locally Administered Carboxydextranâ€Coated Superâ€Paramagnetic Iron Nanoparticles on Cellular Immune Function. Small, 2019, 15, e1900224.	5.2	12
860	Internal Structure and Magnetic Properties in Cobalt Ferrite Nanoparticles: Influence of the Synthesis Method. Particle and Particle Systems Characterization, 2019, 36, 1900061.	1.2	28
861	Design Criteria of Thermal Seeds for Magnetic Fluid Hyperthermia - From Magnetic Physics Point of View. , 2019, , 13-39.		4
862	Surface Modification of Resorcinarene-Based Self-Assembled Solid Lipid Nanoparticles for Drug Targeting. , 2019, , 311-329.		3
863	Unravelling the growth mechanism of the co-precipitation of iron oxide nanoparticles with the aid of synchrotron X-Ray diffraction in solution. Nanoscale, 2019, 11, 6620-6628.	2.8	122
864	Specific absorption rate in Zn-doted ferrites for self-controlled magnetic hyperthermia. European Physical Journal B, 2019, 92, 1.	0.6	16

#	Article	IF	Citations
865	Functionalised iron oxide nanoparticles for multimodal optoacoustic and magnetic resonance imaging. Journal of Materials Chemistry B, 2019, 7, 2212-2219.	2.9	15
866	Nonâ€Magnetic Injectable Implant for Magnetic Fieldâ€Driven Thermochemotherapy and Dual Stimuliâ€Responsive Drug Delivery: Transformable Liquid Metal Hybrid Platform for Cancer Theranostics. Small, 2019, 15, e1900511.	5.2	65
867	Iron Oxide Nanoparticles for Magnetic Hyperthermia. Spin, 2019, 09, .	0.6	10
868	Nanomaterials Developed by Processing Iron Coordination Compounds for Biomedical Application. Journal of Nanomaterials, 2019, 2019, 1-14.	1.5	9
869	Optical evidence of magnetic field-induced ferrofluid aggregation: Comparison of cobalt ferrite, magnetite, and magnesium ferrite. Optical Materials, 2019, 91, 279-285.	1.7	7
870	A standardisation protocol for accurate evaluation of specific loss power in magnetic hyperthermia. Journal Physics D: Applied Physics, 2019, 52, 255001.	1.3	45
871	Hybrid magneto-fluorescent nano-probe for live apoptotic cells monitoring at brain cerebral ischemia. Materials Science and Engineering C, 2019, 100, 485-492.	3.8	11
872	Protein corona formation and its constitutional changes on magnetic nanoparticles in serum featuring a polydehydroalanine coating: effects of charge and incubation conditions. Nanotechnology, 2019, 30, 265707.	1.3	22
873	Estimating the effective anisotropy of ferromagnetic nanoparticles through magnetic and calorimetric simulations. Journal of Applied Physics, 2019, 125, 103903.	1.1	5
874	High intrinsic loss power of multicore magnetic nanoparticles with blood-pooling property for hyperthermia. AIP Advances, 2019, 9, .	0.6	8
875	Smartphone based platform for real-time sharing of medical diagnostics information by optical detection of functionalized fluorescent magnetic nanoparticles. Biomedical Physics and Engineering Express, 2019, 5, 035014.	0.6	8
876	Rapid isolation of Escherichia coli from water samples using magnetic microdiscs. Sensors and Actuators B: Chemical, 2019, 291, 58-66.	4.0	13
877	Biocompatible superparamagnetic carriers of chondroitin sulfate. Materials Research Express, 2019, 6, 066106.	0.8	8
878	Magnetic Nanoparticle-Based Molecular Communication in Microfluidic Environments. IEEE Transactions on Nanobioscience, 2019, 18, 156-169.	2.2	18
879	Heating ability of magnetic nanoparticles with cubic and combined anisotropy. Beilstein Journal of Nanotechnology, 2019, 10, 305-314.	1.5	28
880	Electrochemical Characterization of Magnetite with Agarose-Stabilized Powder Disk Electrodes and Potentiometric Methods. ACS Earth and Space Chemistry, 2019, 3, 688-699.	1.2	11
881	Dipolar field-induced asymmetric magnetization hysteresis of immobile superparamagnetic nanoclusters. Journal of Magnetism and Magnetic Materials, 2019, 480, 132-137.	1.0	5
882	Formation of maghemite nanostructures in polyol: tuning the particle size via the precursor stoichiometry. CrystEngComm, 2019, 21, 1956-1966.	1.3	10

#	Article	IF	Citations
883	Hyperthermia Treatments. , 2019, , 241-263.		4
884	Membrane penetration and trapping of an active particle. Journal of Chemical Physics, 2019, 150, 064906.	1.2	22
885	A review of the concepts, recent advances and niche applications of the (photo) Fenton process, beyond water/wastewater treatment: Surface functionalization, biomass treatment, combatting cancer and other medical uses. Applied Catalysis B: Environmental, 2019, 248, 309-319.	10.8	99
886	Viscoelastic ferrocolloid modelled as the Jeffreys fluid: dynamic magnetic susceptibility in the presence of a bias field. IOP Conference Series: Materials Science and Engineering, 2019, 581, 012001.	0.3	2
887	Frequency-dependent conversion of the torque of a rotating magnetic field on a ferrofluid confined in a spherical cavity. Soft Matter, 2019, 15, 9018-9030.	1.2	5
888	Co/Pd-Based synthetic antiferromagnetic thin films on Au/resist underlayers: towards biomedical applications. Nanoscale, 2019, 11, 21891-21899.	2.8	12
889	Dynamics of superparamagnetic nanoparticles in viscous liquids in rotating magnetic fields. Beilstein Journal of Nanotechnology, 2019, 10, 2294-2303.	1.5	7
890	Nanomaterials towards Biosensing of Alzheimerâ€™s Disease Biomarkers. Nanomaterials, 2019, 9, 1663.	1.9	54
891	Enhancing the abscopal effect of radiation and immune checkpoint inhibitor therapies with magnetic nanoparticle hyperthermia in a model of metastatic breast cancer. International Journal of Hyperthermia, 2019, 36, 47-63.	1.1	35
892	Static magnetization of immobilized, weakly interacting, superparamagnetic nanoparticles. Nanoscale, 2019, 11, 21834-21846.	2.8	32
893	Relaxation in one-dimensional chains of interacting magnetic nanoparticles: Analytical formula and kinetic Monte Carlo simulations. Physical Review B, 2019, 99, .	1.1	26
894	On-chip testing of the speed of magnetic nano- and micro-particles under a calibrated magnetic gradient. Journal of Magnetism and Magnetic Materials, 2019, 474, 187-198.	1.0	9
895	Magnetic parameters evaluation of magnetic nanoparticles for use in biomedical applications. Journal of Magnetism and Magnetic Materials, 2019, 474, 522-527.	1.0	30
896	Study of Brownian motion of magnetic nanoparticles in viscous media by MÃ¶ssbauer spectroscopy. Journal of Magnetism and Magnetic Materials, 2019, 475, 146-151.	1.0	10
897	Recent Advances in Iron Oxide Nanoparticles (IONPs): Synthesis and Surface Modification for Biomedical Applications. Journal of Superconductivity and Novel Magnetism, 2019, 32, 779-795.	0.8	55
898	Synthesis and MÃ¶ssbauer study of 57Fe-based nanoparticles biodegradation in living cells. Journal of Magnetism and Magnetic Materials, 2019, 474, 337-342.	1.0	7
899	Genetic, reproductive and oxidative damage in mice triggered by co-exposure of nanoparticles: From a hypothetical scenario to a real concern. Science of the Total Environment, 2019, 660, 1264-1273.	3.9	18
900	Nickel-zinc spinel nanoferrites: Magnetic characterization and prospects of the use in self-controlled magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2019, 473, 422-427.	1.0	30

#	Article	IF	Citations
901	Using Nitrated Lignosulfonates for the Synthesis of a Water-Based Magnetic Fluid. International Journal of Nanoscience, 2019, 18, 1850018.	0.4	1
902	Nanoscale Physical and Chemical Structure of Iron Oxide Nanoparticles for Magnetic Particle Imaging. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800544.	0.8	15
903	Magnetic Targeted Drug Delivery to the Human Eye Retina: An Optimization Methodology. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019, 3, 3-8.	2.3	6
904	Effect of viscosity on the AC magnetization of magnetic nanoparticles under different AC excitation fields. Journal of Magnetism and Magnetic Materials, 2019, 471, 334-339.	1.0	13
905	In-gel study of the effect of magnetic nanoparticles immobilization on their heating efficiency for application in Magnetic Fluid Hyperthermia. Journal of Magnetism and Magnetic Materials, 2019, 471, 504-512.	1.0	28
906	Predicting size-dependent heating efficiency of magnetic nanoparticles from experiment and stochastic NÃ©el-Brown Langevin simulation. Journal of Magnetism and Magnetic Materials, 2019, 471, 450-456.	1.0	39
907	Refining Studentsâ€™ Explanations of an Unfamiliar Physical Phenomenon-Microscopic Friction. Research in Science Education, 2019, 49, 1177-1211.	1.4	3
908	A physical model for the characterization of magnetic hydrogels subject to external magnetic fields. Journal of Magnetism and Magnetic Materials, 2020, 493, 165674.	1.0	2
909	Magnetic stimulation of gold fiducial markers used in Image-Guided Radiation Therapy: Evidences of hyperthermia effects. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107242.	2.5	4
910	Unusual magnetic and calorimetric properties of lanthanum-strontium manganite nanoparticles. Journal of Magnetism and Magnetic Materials, 2020, 498, 166088.	1.0	8
911	The heating of magnetic nanoparticles in a rotating magnetic field. Nanoscale and Microscale Thermophysical Engineering, 2020, 24, 20-28.	1.4	4
912	Cavitation Assisted Production of Assemblies of Magnetic Nanoparticles of High Chemical Purity. Jom, 2020, 72, 509-516.	0.9	0
913	Transforming lanthanide and actinide chemistry with nanoparticles. Nanoscale, 2020, 12, 1339-1348.	2.8	42
914	Magnetostatic properties of assembly of magnetic vortices. Physica B: Condensed Matter, 2020, 582, 411964.	1.3	2
915	Synthesis and MÃ¶ssbauer study of anomalous magnetic behavior of Fe2O3 nanoparticle-montmorillonite nanocomposites. Hyperfine Interactions, 2020, 241, 1.	0.2	1
916	Aptamer-conjugated magnetic nanoparticles for the efficient capture of cancer biomarker proteins. Journal of Magnetism and Magnetic Materials, 2020, 497, 166063.	1.0	16
917	Quasistatic hysteresis loops of magnetic nanoparticles in a rotating magnetic field. Journal of Magnetism and Magnetic Materials, 2020, 499, 166260.	1.0	2
918	Analyzing the mechanisms of iron oxide nanoparticles interactions with cells: A road from failure to success in clinical applications. Journal of Controlled Release, 2020, 328, 59-77.	4.8	72

#	Article	IF	Citations
919	Field-induced single molecule magnet behavior of a dinuclear cobalt(<scp>ii</scp>) complex: a combined experimental and theoretical study. Dalton Transactions, 2020, 49, 16778-16790.	1.6	18
920	New insight on prednisolone polymorphs in mesoporous silica/maghemite nanocomposites. Journal of Drug Delivery Science and Technology, 2020, 60, 102092.	1.4	2
921	The benefits of a Bayesian analysis for the characterization of magnetic nanoparticles. Nanotechnology, 2020, 31, 435704.	1.3	4
922	Simultaneous Coercivity and Size Determination of Magnetic Nanoparticles. Sensors, 2020, 20, 3882.	2.1	8
923	Plasmaâ€based synthesis of iron carbide nanoparticles. Plasma Processes and Polymers, 2020, 17, 2000105.	1.6	6
924	Radiation Induced Surface Modification of Nanoparticles and Their Dispersion in the Polymer Matrix. Nanomaterials, 2020, 10, 2237.	1.9	8
925	A Novel Paramagnetic Nanoparticle <scp>T₂</scp> Magnetic Resonance Imaging Contrast Agent With High Colloidal Stability: Polyacrylic <scp>Acidâ€Coated</scp> Ultrafine Dysprosium Oxide Nanoparticles. Bulletin of the Korean Chemical Society, 2020, 41, 829-836.	1.0	9
926	Application of Magnetosomes in Magnetic Hyperthermia. Nanomaterials, 2020, 10, 1320.	1.9	25
927	A mathematical modeling approach toward magnetic fluid hyperthermia of cancer and unfolding heating mechanism. Journal of Thermal Analysis and Calorimetry, 2021, 146, 1193-1219.	2.0	12
928	Size-dependent magnetic and magnetothermal properties of gadolinium silicide nanoparticles. RSC Advances, 2020, 10, 28383-28389.	1.7	10
929	Accurate iron quantification in colloids and nanocomposites by a simple UV-Vis protocol. Mikrochimica Acta, 2020, 187, 488.	2.5	9
930	Ni-Cu Nanoparticles and Their Feasibility for Magnetic Hyperthermia. Nanomaterials, 2020, 10, 1988.	1.9	16
931	Lissajous scanning magnetic particle imaging as a multifunctional platform for magnetic hyperthermia therapy. Nanoscale, 2020, 12, 18342-18355.	2.8	17
932	Effects of interactions on magnetization relaxation dynamics in ferrofluids. Physical Review E, 2020, 102, 032610.	0.8	11
933	Dynamics of interacting magnetic nanoparticles: effective behavior from competition between Brownian and NÃ©el relaxation. Physical Chemistry Chemical Physics, 2020, 22, 22244-22259.	1.3	41
934	Smart magnetic nanopowder based on the manganite perovskite for local hyperthermia. RSC Advances, 2020, 10, 30907-30916.	1.7	19
935	Magnetization Characteristics of Oriented Single-Crystalline NiFe-Cu Nanocubes Precipitated in a Cu-Rich Matrix. Molecules, 2020, 25, 3282.	1.7	2
936	Size-Dependent Crystalline and Magnetic Properties of 5â€“100 nm Fe â‚ƒ O â‚„ Nanoparticles: Superparamagnetism, Verwey Transition, and FeOâ€“Fe â‚ƒ O â‚„ Coreâ€“Shell Formation. IEEE Transactions on Magnetics, 2020, 56, 1-9.	1.2	5

#	Article	IF	Citations
937	Magnetotactic bacteria for cancer therapy. Journal of Applied Physics, 2020, 128, .	1.1	37
938	Equilibrium properties of assembly of interacting superparamagnetic nanoparticles. Scientific Reports, 2020, 10, 13677.	1.6	13
939	Tuning the dynamics in Fe3O4 nanoparticles for hyperthermia optimization. Applied Physics Letters, 2020, 117, 073702.	1.5	9
940	Magnetic ordering of random dense packings of freely rotating dipoles. Physical Review B, 2020, 102, .	1.1	2
941	Magnetic separation of nucleic acids from various biological samples using silica-coated iron oxide nanobeads. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	4
942	Recent Progress in Iron Oxide Nanoparticles as Therapeutic Magnetic Agents for Cancer Treatment and Tissue Engineering. ACS Applied Bio Materials, 2020, 3, 8172-8187.	2.3	45
943	Tamoxifen Delivery System Based on PEGylated Magnetic MCM-41 Silica. Molecules, 2020, 25, 5129.	1.7	8
944	Phase diagram of a three-dimensional dipolar model on an fcc lattice. Physical Review B, 2020, 102, .	1.1	7
945	Magnetic ferrofluids with ellipsoidal nanoparticles: Impact of the dipole orientation on the self-assembly. Journal of Magnetism and Magnetic Materials, 2020, 510, 166946.	1.0	7
946	Highly Reproducible Hyperthermia Response in Water, Agar, and Cellular Environment by Discretely PEGylated Magnetite Nanoparticles. ACS Applied Materials & Interfaces, 2020, 12, 27917-27929.	4.0	27
947	Characterisation of the magnetic response of nanoscale magnetic filaments in applied fields. Nanoscale, 2020, 12, 13933-13947.	2.8	20
948	Palmitic acid-coated magnetite nanocubes with high-quality crystallinity and bulk-like magnetic features. Journal Physics D: Applied Physics, 2020, 53, 385001.	1.3	4
949	Thermal conductivity of emulsion with anisotropic microstructure induced by external field. Colloid and Polymer Science, 2020, 298, 1063-1076.	1.0	13
950	Local Structure and Magnetism of Fe2O3 Maghemite Nanocrystals: The Role of Crystal Dimension. Nanomaterials, 2020, 10, 867.	1.9	37
951	Electrical Conductivity of Field-Structured Emulsions. Fluids, 2020, 5, 74.	0.8	4
952	Exploring precision polymers to fine-tune magnetic resonance imaging properties of iron oxide nanoparticles. Journal of Colloid and Interface Science, 2020, 579, 401-411.	5.0	9
953	Study of the Brownian Broadening in the MÃ¶ssbauer Spectra of Magnetic Nanoparticles in Colloids with Different Viscosities. Crystallography Reports, 2020, 65, 398-403.	0.1	5
954	In situ TEM oxidation study of Fe thin-film transformation to single-crystal magnetite nanoparticles. Journal of Materials Science, 2020, 55, 12897-12905.	1.7	7

#	Article	IF	Citations
955	Scalable magnet geometries enhance tumour targeting of magnetic nano-carriers. Materials and Design, 2020, 191, 108610.	3.3	11
956	Comprehensive magnetic resonance characteristics of carbon-encapsulated iron nanoparticles: a new frontier for the core-shellâ€“type contrast agents. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	5
957	Magnetic Relaxation in a Viscoelastic Ferrocolloid. Colloid Journal, 2020, 82, 161-179.	0.5	3
958	Temperature-dependent heating efficiency of magnetic nanoparticles for applications in precision nanomedicine. Nanoscale, 2020, 12, 6360-6377.	2.8	26
959	Understanding Magnetization Dynamics of a Magnetic Nanoparticle with a Disordered Shell Using Micromagnetic Simulations. Nanomaterials, 2020, 10, 1149.	1.9	10
960	Optimization of tumor ablation volume for nanoparticle-mediated thermal therapy. International Journal of Thermal Sciences, 2020, 157, 106515.	2.6	3
961	Metallic nanoparticulate delivery systems. , 2020, , 279-328.		4
962	Magnetic targeting cobalt nanowire-based multifunctional therapeutic system for anticancer treatment and angiogenesis. Colloids and Surfaces B: Biointerfaces, 2020, 194, 111217.	2.5	8
963	Magnetic and Golden Yogurts. Food as a Potential Nanomedicine Carrier. Materials, 2020, 13, 481.	1.3	10
964	Specific absorption rate of assembly of magnetic nanoparticles with uniaxial anisotropy. Journal of Physics: Conference Series, 2020, 1439, 012044.	0.3	8
965	Magnetic fluid hyperthermia simulations in evaluation of SAR calculation methods. Physica Medica, 2020, 71, 39-52.	0.4	24
966	A Modular Millifluidic Platform for the Synthesis of Iron Oxide Nanoparticles with Control over Dissolved Gas and Flow Configuration. Materials, 2020, 13, 1019.	1.3	19
967	CoFe2O4â€“Fe3O4 bimagnetic heterostructure: a versatile core-shell nanoparticle with magnetically recoverable photocatalytic and self heating properties. Materials Research Express, 2020, 7, 016111.	0.8	8
968	Near-infrared measurement of water temperature near micro-magnetic particle layer in a fluidic channel under induction heating. Experimental Thermal and Fluid Science, 2020, 115, 110087.	1.5	5
969	The effect of electron irradiation on the structure and properties of Î±-Fe2O3 nanoparticles as cathode material. Ceramics International, 2020, 46, 13580-13587.	2.3	3
970	Photocatalytic, nitrite sensing and antibacterial studies of facile bio-synthesized nickel oxide nanoparticles. Journal of Science: Advanced Materials and Devices, 2020, 5, 48-55.	1.5	25
971	Change of structural and magnetic property due to zinc substitution and sintering temperature of nano-crystalline Cobalt ferrite. Phase Transitions, 2020, 93, 301-310.	0.6	1
972	Exploring the effect of Co concentration on magnetic hyperthermia properties of Co_xFe_{3â^'x}O₄ nanoparticles. Materials Research Express, 2020, 7, 016113.	0.8	12

#	Article	IF	Citations
973	The effects of anisotropy on solvent-suspended â€˜superparamagneticâ€™ nanoparticles: Magnetization step on melting. Journal of Magnetism and Magnetic Materials, 2020, 503, 166486.	1.0	0
974	Thermomagneto-Responsive Smart Biocatalysts for Malonyl-Coenzyme A Synthesis. ACS Applied Materials & Interfaces, 2020, 12, 20982-20990.	4.0	19
975	Modeling and simulation of blood flow with magnetic nanoparticles as carrier for targeted drug delivery in the stenosed artery. European Journal of Mechanics, B/Fluids, 2020, 83, 42-57.	1.2	41
976	Magnetic Graphene-Based Sheets for Bacteria Capture and Destruction Using a High-Frequency Magnetic Field. Nanomaterials, 2020, 10, 674.	1.9	11
977	Characterization of the Nuclear Magnetic Resonance Relaxivity of Gadolinium Functionalized Magnetic Nanoparticles. Analytical Letters, 2021, 54, 124-139.	1.0	3
978	Ferrites. , 2021, , 217-224.		2
979	A three dimensional numerical investigation on trajectories and capture of magnetic drug carrier nanoparticles in a Y-shaped vessel. Journal of Drug Delivery Science and Technology, 2021, 61, 102207.	1.4	2
980	Power dissipation in magnetic nanoparticles evaluated using the AC susceptibility of their linear and nonlinear responses. Journal of Magnetism and Magnetic Materials, 2021, 517, 167401.	1.0	17
981	Inorganic Nanomaterialâ€Mediated Gene Therapy in Combination with Other Antitumor Treatment Modalities. Advanced Functional Materials, 2021, 31, 2007096.	7.8	32
982	Magnetically Responsive Polymeric Microparticles for the Triggered Delivery of a Complex Mixture of Human Placental Proteins. Macromolecular Bioscience, 2021, 21, 2000249.	2.1	6
983	Design and engineering of magneto-responsive devices for cancer theranostics: Nano to macro perspective. Progress in Materials Science, 2021, 116, 100742.	16.0	51
984	Control of oxidative stress in Jurkat cells as a model of leukemia treatment. Journal of Magnetism and Magnetic Materials, 2021, 523, 167623.	1.0	6
985	Surfactant-assisted microwave synthesis of luminescent/magnetic bifunctional hydroxyapatite nanorods for dual-model imaging. Optik, 2021, 225, 165564.	1.4	10
986	Design of PEG-modified magnetic nanoporous silica based miltefosine delivery system: Experimental and theoretical approaches. Microporous and Mesoporous Materials, 2021, 310, 110664.	2.2	6
987	Model-based optimized steering and focusing of local magnetic particle concentrations for targeted drug delivery. Drug Delivery, 2021, 28, 63-76.	2.5	19
988	Evolution of magnetic properties of crystalline cobalt-iron boride nanoparticles via optimization of synthesis conditions using hydrous metal chlorides. Journal of Magnetism and Magnetic Materials, 2021, 523, 167634.	1.0	4
989	Highâ€Throughput Magnetic Actuation Platform for Evaluating the Effect of Mechanical Force on 3D Tumor Microenvironment. Advanced Functional Materials, 2021, 31, .	7.8	5
990	NiFe2O4 nanocatalyst for heavy crude oil upgrading in low hydrogen/feedstock ratio. Catalysis Today, 2021, 360, 20-26.	2.2	21

#	Article	IF	Citations
991	Conducting polymer-based nanocomposites: Structuration, compatibilizing effect, conductivity, and physical properties. , 2021, , 27-56.		1
992	Recent development of gene therapy for pancreatic cancer using non-viral nanovectors. Biomaterials Science, 2021, 9, 6673-6690.	2.6	18
993	High-yield fabrication of perpendicularly magnetised synthetic antiferromagnetic nanodiscs. Nano Research, 2021, 14, 3873-3878.	5.8	8
994	Magneto-mechanical treatment of human glioblastoma cells with engineered iron oxide powder microparticles for triggering apoptosis. Nanoscale Advances, 2021, 3, 6213-6222.	2.2	7
996	Nanoflowers Versus Magnetosomes: Comparison Between Two Promising Candidates for Magnetic Hyperthermia Therapy. IEEE Access, 2021, 9, 99552-99561.	2.6	9
997	Multiscale simulations of the hydration shells surrounding spherical Fe₃O₄nanoparticles and effect on magnetic properties. Nanoscale, 2021, 13, 9293-9302.	2.8	5
998	Promising tamoxifen-loaded biocompatible hybrid magnetic nanoplatforms against breast cancer cells: synthesis, characterization and biological evaluation. New Journal of Chemistry, 2021, 45, 4032-4045.	1.4	6
999	Colloidal Stability and Concentration Effects on Nanoparticle Heat Delivery for Magnetic Fluid Hyperthermia. Langmuir, 2021, 37, 1129-1140.	1.6	28
1000	Nanoscale Heat Mediators for Magnetic Hyperthermia: Materials, Problems, and Prospects. , 2021, , 25-64.		0
1001	Role of Magnetic Anisotropy on the Hyperthermia Efficiency in Spherical Fe3â^'xCoxO4 (x = 0â€“1) Nanoparticles. Applied Sciences (Switzerland), 2021, 11, 930.	1.3	17
1002	Systems and application biopsy. , 2021, , 623-712.		0
1003	A futuristic insight into a â€œnano-doctorâ€• A clinical review on medical diagnosis and devices using nanotechnology. Materials Today: Proceedings, 2021, 44, 1144-1153.	0.9	14
1004	A bioâ€•inspired gelatinâ€•based <scp>pH</scp>â€•and thermalâ€•sensitive magnetic hydrogel for in vitro chemo/hyperthermia treatment of breast cancer cells. Journal of Applied Polymer Science, 2021, 138, 50578.	1.3	31
1005	Synthesis, characterization, and biological screening of metal nanoparticles loaded gum acacia microgels. Microscopy Research and Technique, 2021, 84, 1673-1684.	1.2	11
1006	Improvement of Magnetic Particle Hyperthermia: Healthy Tissues Sparing by Reduction in Eddy Currents. Nanomaterials, 2021, 11, 556.	1.9	6
1007	Investigation of Laser Direct Writing as a Novel Method of Permalloy Patterning. Journal of Physics: Conference Series, 2021, 1829, 012008.	0.3	1
1008	Effects of annealing temperature on microstructural, magnetic properties, and specific absorption rate of Zn-Ni ferrite nanoparticles. Materials Research Express, 2021, 8, 036101.	0.8	12
1009	Nanoimprinted multifunctional nanoprobes for a homogeneous immunoassay in a top-down fabrication approach. Scientific Reports, 2021, 11, 6039.	1.6	3

#	Article	IF	Citations
1010	Identification and implication of organic compounds of Viola odorata: a potential source for bio-fabrication of nickel oxide nanoparticles. Applied Nanoscience (Switzerland), 2021, 11, 1593-1603.	1.6	5
1011	Properties of assembly of superparamagnetic nanoparticles in viscous liquid. Scientific Reports, 2021, 11, 6999.	1.6	17
1012	Computation of ferromagnetic/nonmagnetic nanofluid flow over a stretching cylinder with induction and curvature effects. Heat Transfer, 2021, 50, 5240-5266.	1.7	20
1013	Modulation of the Magnetic Hyperthermia Response Using Different Superparamagnetic Iron Oxide Nanoparticle Morphologies. Nanomaterials, 2021, 11, 627.	1.9	45
1014	Nucleic Acids-based Functional Nanomaterials for Bioimaging. Journal of Analysis and Testing, 2021, 5, 142-154.	2.5	13
1015	The Role of Anisotropy in Distinguishing Domination of NÃ©el or Brownian Relaxation Contribution to Magnetic Inductive Heating: Orientations for Biomedical Applications. Materials, 2021, 14, 1875.	1.3	16
1016	Electrochemical and hydrogen evolution behaviour of a novel nano-cobalt/nano-chitosan composite coating on a surgical 316L stainless steel alloy as an implant. International Journal of Hydrogen Energy, 2021, 46, 18233-18241.	3.8	25
1017	Recent Advances in the Development of Magnetic Nanoparticles for Biomedical Applications. Journal of Nanoscience and Nanotechnology, 2021, 21, 2705-2741.	0.9	8
1018	Magnetic Nanodiscsâ€"A New Promising Tool for Microsurgery of Malignant Neoplasms. Nanomaterials, 2021, 11, 1459.	1.9	7
1019	Synthesis, Characterizations, and 9.4 Tesla T2 MR Images of Polyacrylic Acid-Coated Terbium(III) and Holmium(III) Oxide Nanoparticles. Nanomaterials, 2021, 11, 1355.	1.9	15
1020	Poly(ethylene-imine)-Functionalized Magnetite Nanoparticles Derivatized with Folic Acid: Heating and Targeting Properties. Polymers, 2021, 13, 1599.	2.0	8
1021	<scp>TXRF</scp> spectrometry in the bioanalytical sciences: A brief review. X-Ray Spectrometry, 2022, 51, 279-293.	0.9	12
1022	How chains and rings affect the dynamic magnetic susceptibility of a highly clustered ferrofluid. Physical Review E, 2021, 103, 062611.	0.8	18
1023	Polymer nanoparticles-preparations, applications and future insights: a concise review. Polymer-Plastics Technology and Materials, 0, , 1-29.	0.6	14
1024	Low-field-induced spin-glass behavior and controllable anisotropy in nanoparticle assemblies at a liquid-air interface. Science China Materials, 2022, 65, 193-200.	3.5	4
1025	Filtration of Nanoparticle Agglomerates in Aqueous Colloidal Suspensions Exposed to an External Radio-Frequency Magnetic Field. Nanomaterials, 2021, 11, 1737.	1.9	1
1026	A Robust and Highly Precise Alternative against the Proliferation of Intestinal Carcinoma and Human Hepatocellular Carcinoma Cells Based on Lanthanum Strontium Manganite Nanoparticles. Materials, 2021, 14, 4979.	1.3	3
1027	Lipid Cubic Mesophases Combined with Superparamagnetic Iron Oxide Nanoparticles: A Hybrid Multifunctional Platform with Tunable Magnetic Properties for Nanomedical Applications. International Journal of Molecular Sciences, 2021, 22, 9268.	1.8	11

#	Article	IF	Citations
1028	Magnetic Nanoprobes for Spatio-Mechanical Manipulation in Single Cells. Nanomaterials, 2021, 11, 2267.	1.9	4
1029	Reproducibility and Scalability of Magnetic Nanoheater Synthesis. Nanomaterials, 2021, 11, 2059.	1.9	6
1031	Non-Heating Alternating Magnetic Field Nanomechanical Stimulation of Biomolecule Structures via Magnetic Nanoparticles as the Basis for Future Low-Toxic Biomedical Applications. Nanomaterials, 2021, 11, 2255.	1.9	21
1033	Development of Dextran-Coated Magnetic Nanoparticles Loaded with Protocatechuic Acid for Vascular Inflammation Therapy. Pharmaceutics, 2021, 13, 1414.	2.0	14
1034	In Vitro Magnetic Techniques for Investigating Cancer Progression. Cancers, 2021, 13, 4440.	1.7	4
1035	Polyaspartic Acid-Coated Paramagnetic Gadolinium Oxide Nanoparticles as a Dual-Modal T1 and T2 Magnetic Resonance Imaging Contrast Agent. Applied Sciences (Switzerland), 2021, 11, 8222.	1.3	11
1036	Stable Iron Oxide Nanoflowers with Exceptional Magnetic Heating Efficiency: Simple and Fast Polyol Synthesis. ACS Applied Materials & Interfaces, 2021, 13, 45870-45880.	4.0	28
1037	Weakly coupled synthetic antiferromagnetic nanodisks with perpendicular magnetic anisotropy for lab-on-chip devices. Applied Physics Letters, 2021, 119, .	1.5	5
1038	Magnetization reversal mechanism of chemically synthesized linear chains of Î±-Fe nanospheres. Journal of Materials Science, 2021, 56, 19476.	1.7	2
1039	Highly Nonlinear Optical Organic Crystals for Efficient Terahertz Wave Generation, Detection, and Applications. Advanced Optical Materials, 2021, 9, 2101019.	3.6	49
1040	Tuning the Cell and Biological Tissue Environment through Magneto-Active Materials. Applied Sciences (Switzerland), 2021, 11, 8746.	1.3	5
1041	Application of iron/barium ferrite/carbon-coated iron nanocrystal composites in transcatheter arterial chemoembolization of hepatocellular carcinoma. Journal of Colloid and Interface Science, 2021, 601, 30-41.	5.0	7
1042	Induced magnetization in armchair and Zig-zag CNTs on adsorbing transition metals. Journal of Magnetism and Magnetic Materials, 2021, 538, 168287.	1.0	1
1043	Quantitation method of loss powers using commercial magnetic nanoparticles based on superparamagnetic behavior influenced by anisotropy for hyperthermia. Journal of Magnetism and Magnetic Materials, 2021, 538, 168313.	1.0	26
1044	Compact formulation of the statistical moment method for the solution of the Fokkerâ€“Planck equation for two coupled macrospins. Journal of Magnetism and Magnetic Materials, 2021, 539, 168365.	1.0	1
1045	Empirical and simulated evaluations of easy-axis dynamics of magnetic nanoparticles based on their magnetization response in alternating magnetic field. Journal of Magnetism and Magnetic Materials, 2021, 539, 168354.	1.0	6
1046	Dynamics of particles with cubic magnetic anisotropy in a viscous liquid. Journal of Magnetism and Magnetic Materials, 2022, 541, 168494.	1.0	1
1047	Magnetic nanoparticle-polymer hybrid materials. , 2021, , 139-182.		1

#	Article	IF	Citations
1048	Understanding intracellular nanoparticle trafficking fates through spatiotemporally resolved magnetic nanoparticle recovery. Nanoscale Advances, 2021, 3, 2397-2410.	2.2	5
1049	Magnetomechanical and Magnetothermal Coupling in Ferrohydrogels. , 2013, , 131-148.		2
1050	Collective Effects in Assemblies of Magnetic Nanaparticles. Solid State Physics, 2016, , 1-101.	1.3	7
1051	Ionic Liquid Aggregation Mechanism for Nanoparticle Synthesis. Journal of Physical Chemistry B, 2021, 125, 253-263.	1.2	10
1052	Tunable Fe3O4 Nanorods for Enhanced Magnetic Hyperthermia Performance. Scientific Reports, 2020, 10, 8331.	1.6	28
1053	Topical Review: Progress and Prospects of Hard Hexaferrites for Permanent Magnet Applications. Journal Physics D: Applied Physics, 0, , .	1.3	27
1054	Plasma Nanotechnology for Nanophase Magnetic Material Synthesis. Advances in Materials Science and Engineering, 2017, , 189-292.	0.4	1
1055	Thermal Analysis of Magnetic Nanoparticles Modified with Dextran. Acta Physica Polonica A, 2012, 121, 1296-1298.	0.2	15
1056	Physical Properties of Magnetite Nanoparticles Covered by 11-Mercaptoundecanoic Acid. Acta Physica Polonica A, 2012, 121, 1321-1323.	0.2	2
1057	Manganite Nanoparticles as Promising Heat Mediators for Magnetic Hyperthermia: Comparison of Different Chemical Substitutions. Acta Physica Polonica A, 2018, 133, 1017-1020.	0.2	3
1058	Design Maps for the Hyperthermic Treatment of Tumors with Superparamagnetic Nanoparticles. PLoS ONE, 2013, 8, e57332.	1.1	89
1059	Double-Layer Magnetic Nanoparticle-Embedded Silica Particles for Efficient Bio-Separation. PLoS ONE, 2015, 10, e0143727.	1.1	27
1060	A Criterion for the Complete Deposition of Magnetic Beads on the Walls of Microchannels. PLoS ONE, 2016, 11, e0151053.	1.1	3
1062	Specific Power Absorption of Silica-coated Magnetite Cubes. Current Nanoscience, 2014, 10, 676-683.	0.7	9
1063	Magnetic Nanoparticles: A Review on Stratagems of Fabrication an d its Biomedical Applications. Recent Patents on Drug Delivery and Formulation, 2017, 11, 101-113.	2.1	16
1064	Fabrication of Magnetic Co/Pt Nanodots Utilizing Filled Diblock Copolymers. The Open Surface Science Journal, 2012, 4, 55-64.	2.0	8
1065	Nanotechnology: Nanomedicine, Nanotoxicity and Future Challenges. Nanoscience and Nanotechnology - Asia, 2018, 9, 64-78.	0.3	24
1066	Preparation of La2/3Sr1/3Mn1-xCuxO3-Î² Perovskite Ceramics for Temperature-self-controlled Magnetic Hyperthermia Mediators and Estimates of their Heating Ability under Alternating Magnetic Fields. Journal of the Magnetics Society of Japan, 2011, 35, 22-26.	0.5	4

#	Article	IF	Citations
1067	Frequency Selective Surfaces with Nanoparticles Unit Cell. Micromachines, 2015, 6, 1421-1426.	1.4	2
1068	Magnetic fluid based on Fe3O4nanoparticles: Preparation and hyperthermia application. International Journal of Chemical and Applied Biological Sciences, 2014, 1, 24.	0.2	5
1069	Magnetometry and Hyperthermia Study of Magnetic Fluid Preparation UNIMAG. World Journal of Condensed Matter Physics, 2014, 04, 6-12.	1.1	6
1070	Superparamagnetic nanoparticles - a tool for early diagnostics. Swiss Medical Weekly, 2010, 140, w13081.	0.8	36
1071	The Effect of Magnetic Fe3O4 Nanoparticles on the Growth of Genetically Manipulated Bacterium, Pseudomonas aeruginosa (PTSOX4). Iranian Journal of Biotechnology, 2013, 11, 41-6.	0.3	26
1072	Problems on the back of an envelope. ELife, 2016, 5, .	2.8	18
1073	Characterization of Magnetic Markers for Liquid-Phase Immunoassays Using Brownian Relaxation. Japanese Journal of Applied Physics, 2012, 51, 023002.	0.8	8
1074	Influence of Zn substitution on the structural and magnetic properties of Co1-xZnxFe2O4 nano-ferrites. IOSR Journal of Applied Physics, 2014, 6, 58-65.	0.1	27
1075	Structural, spectroscopic, dielectric, and magnetic properties of Fe/Cu co-doped hydroxyapatites prepared by a wet-chemical method. Physica B: Condensed Matter, 2022, 625, 413486.	1.3	12
1076	Studies on Aggregated Nanoparticles Steering during Deep Brain Membrane Crossing. Nanomaterials, 2021, 11, 2754.	1.9	1
1077	Interaction Effect of EDTA, Salinity, and Oxide Nanoparticles on Alga Chlamydomonas reinhardtii and Chlamydomonas euryale. Plants, 2021, 10, 2118.	1.6	3
1079	Computer Simulations of Dynamic Response of Ferrofluids on an Alternating Magnetic Field with High Amplitude. Mathematics, 2021, 9, 2581.	1.1	3
1080	Dynamic magnetic susceptibility of a ferrofluid: The influence of interparticle interactions and ac field amplitude. Physical Review E, 2021, 104, 044604.	0.8	8
1081	MAGNETIZATION HARMONICS AS A REMOTE METHOD FOR MONITORING ENDOCYTOSIS OF NANOPARTICLES. , 2010, , .		0
1082	Ferromagnets-Based Multifunctional Nanoplatform for Targeted Cancer Therapy. , 0, , .		0
1083	Magnetite nanoparticles as-prepared and dispersed in Copaiba oil: study using magnetic measurements and MÃ¶ssbauer spectroscopy. , 2012, , 337-342.		0
1084	Magnetic Relaxation of Magnetic Nanoparticles Dispersed in Solution under High Frequency Magnetic Field. IEEJ Transactions on Fundamentals and Materials, 2012, 132, 813-817.	0.2	0
1085	Recent Development in Biomedical Sensing Systems Using Magnetic Markers. Journal of the Institute of Electrical Engineers of Japan, 2012, 132, 294-297.	0.0	0

#	Article	IF	Citations
1086	Nanomagnetic Gene Transfection. , 2012, , 333-350.		0
1087	Magnetic Particle Imaging for Angiography, Stem Cell Tracking, Cancer Imaging and Inflammation Imaging. , 2012, , 523-540.		2
1089	Magnetic Nanoparticle Imaging Using Second Harmonic Signals for Sentinel Lymph Node Detection. Journal of the Magnetics Society of Japan, 2013, 37, 295-298.	0.5	2
1090	Evaluation of Harmonic Signals from Magnetic Nanoparticles and Application to Magnetic Nanoparticle Imaging. IEEJ Transactions on Fundamentals and Materials, 2013, 133, 344-350.	0.2	0
1091	Properties of Ferroic Nanomaterials. , 2014, , 871-889.		0
1093	Application of Magnetic Fine Particles Synthesized by Spray Pyrolysis for Hyperthermia Therapy. Journal of the Society of Powder Technology, Japan, 2015, 52, 275-278.	0.0	0
1095	Magnetically Controlled Nitric Oxide Release. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2016, 24, 133-137.	0.0	0
1096	Magnetic Nanoparticles for Biomedical Applications. , 2016, , 1842-1850.		3
1097	Characterization of Magnetism in Coreâ€“Shell Nanoparticles. , 2017, , 375-412.		0
1099	A simulation study of excitation coil design in single-sided mpi scanner for human body application. Bulletin of Electrical Engineering and Informatics, 2019, 8, .	0.6	0
1100	Study on Magnetic Particle Relaxation Detection Device Based on AC Magnetic Susceptibility. , 2019, , .		0
1101	Nanotechnology in Delivery and Targeting of Phytochemicals. Environmental Chemistry for A Sustainable World, 2021, , 211-264.	0.3	2
1102	Magnetically triggered release of active TGF-B from spin vortex microdiscs. Journal of Magnetism and Magnetic Materials, 2022, 546, 168732.	1.0	0
1103	Electromagnetic Configurations in Steering Micro/Nano Robots inside Y-shaped Blood Vessel. , 2020, , .		1
1104	Complex magnetic dynamics in an akaganÃ©ite-based iron deficiency drug. Journal of Magnetism and Magnetic Materials, 2022, 543, 168607.	1.0	2
1105	Thermal Response of Iron Oxide and Metal-Based Iron Oxide Nanoparticles for Magnetic Hyperthermia. Nanomedicine and Nanotoxicology, 2020, , 333-356.	0.1	2
1106	Estimation of magnetic anisotropy constant of magnetic nanoparticles. AIP Conference Proceedings, 2020, , .	0.3	0
1107	Prenormative verification and validation of a protocol for measuring magnetiteâ€“maghemite ratios in magnetic nanoparticles. Metrologia, 2022, 59, 015001.	0.6	8

#	Article	IF	Citations
1108	High heating efficiency of interactive cobalt ferrite nanoparticles. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2020, 11, 045005.	0.7	2
1109	Initial Susceptibility in Systems of Magnetic Ellipsoidal Nanoparticles. Physics of the Solid State, 2020, 62, 1685-1690.	0.2	1
1110	Cytotoxic effect of PEI-coated magnetic nanoparticles on the regulation of cellular focal adhesions and actin stress fibres. Materialia, 2020, 13, 100848.	1.3	6
1111	Thiolated Nanoparticles for Biomedical Applications: Mimicking the Workhorses of Our Body. Advanced Science, 2022, 9, e2102451.	5.6	29
1112	Magnetic particle imaging: tracer development and the biomedical applications of a radiation-free, sensitive, and quantitative imaging modality. Nanoscale, 2022, 14, 3658-3697.	2.8	30
1114	Intercellular transfer of mitochondria via tunneling nanotubes protects against cobalt nanoparticle-induced neurotoxicity and mitochondrial damage. Nanotoxicology, 2021, 15, 1358-1379.	1.6	16
1115	Effect of Magnetic Fields on the Optical Density of Magnetic Emulsions With Low Interfacial Tension. IEEE Magnetics Letters, 2022, 13, 1-5.	0.6	1
1116	Nanocrystalline NiO powder: Synthesis, characterization and emerging applications. , 2022, , 529-550.		5
1118	Evaluation of Fe-Nitrides, -Borides and -Carbides for Enhanced Magnetic Fluid Hyperthermia. SSRN Electronic Journal, 0, , .	0.4	0
1119	Towards optimal thermal distribution in magnetic hyperthermia. Scientific Reports, 2022, 12, 3023.	1.6	15
1120	Deconvolution of ferromagnetic resonance spectrum of magnetic nanoparticle assembly using genetic algorithm. Scientific Reports, 2022, 12, 3126.	1.6	4
1121	AC Magnetic Susceptibility of Magnetic Nanoparticles Measured Under DC Bias Magnetic Field. Journal of the Magnetics Society of Japan, 2022, 46, 42-48.	0.5	3
1122	Application of square-wave inverter in excitation system for magnetic nanoparticle tomography. AIP Advances, 2022, 12, 035012.	0.6	2
1124	Magnetic nanoparticles and magnetic particle spectroscopy-based bioassays: a 15 year recap. Nano Futures, 2022, 6, 022001.	1.0	16
1125	Three-dimensional particle size and position measurement by linear complex amplitude Wiener filtering. Optics Express, 2022, 30, 15008.	1.7	3
1126	Design, application and investigation of the system for generation of fast changing, rotating magnetic field causing hyperthermic effect in magnetic liquids. Measurement: Journal of the International Measurement Confederation, 2022, 194, 111020.	2.5	4
1127	Effects of interactions, structure formation, and polydispersity on the dynamic magnetic susceptibility and magnetic relaxation of ferrofluids. Journal of Molecular Liquids, 2022, 356, 119034.	2.3	8
1128	Optical Effect in Magnetic Emulsions Induced by a Magnetic Field. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 rgBT /Ove	0.2	2

#	Article	IF	Citations
1129	Innovative Gold/Cobalt Ferrite Nanocomposite: Physicochemical and Cytotoxicity Properties. Processes, 2021, 9, 2264.	1.3	4
1130	Effect of Thickness Size on Magnetic Behavior of Layered Ising Nanocube Fe/Co/Fe: a Monte Carlo Simulation. Journal of Superconductivity and Novel Magnetism, 2022, 35, 2425-2434.	0.8	2
1131	Antiferromagnetic short-range order and cluster spin-glass state in diluted spinel ZnTiCoO₄. Journal of Physics Condensed Matter, 2022, , .	0.7	4
1133	Improving the functionality of a nanomaterial by biological probes. , 2022, , 379-418.		4
1134	Ferrofluid annulus in crossed magnetic fields. Physical Review E, 2022, 105, 045106.	0.8	4
1135	Magnetic Anisotropy of Individual Nanomagnets Embedded in Biological Systems Determined by Axi-asymmetric X-ray Transmission Microscopy. ACS Nano, 2022, 16, 7398-7408.	7.3	4
1136	An Implantable Magneto-Responsive Poly(aspartamide) Based Electrospun Scaffold for Hyperthermia Treatment. Nanomaterials, 2022, 12, 1476.	1.9	7
1137	Magnetization dynamics of iron oxide super paramagnetic nanoparticles above blocking temperature. Materials Today: Proceedings, 2022, 65, 2636-2644.	0.9	2
1138	Nonlinear dynamic thermometry: Temperature measurement using immobilized magnetic nanoparticles. Journal of Applied Physics, 2022, 131, .	1.1	3
1141	Hybrid nanoparticles from chitosan and nickel for enhanced biocidal activities. New Journal of Chemistry, 2022, 46, 13240-13248.	1.4	6
1142	Polymer-Magnetic Semiconductor Nanocomposites for Industrial Electronic Applications. Polymers, 2022, 14, 2467.	2.0	15
1143	Oxide Based Nanoparticles: A review. Oriental Journal of Chemistry, 2022, 38, 654-662.	0.1	0
1144	Magnetic Nanoparticles for Medical Applications: Updated Review. Macromol, 2022, 2, 374-390.	2.4	39
1145	Field-controlled flow and shape of a magnetorheological fluid annulus. Physical Review E, 2022, 106, .	0.8	1
1146	Magnetostatic interaction in oriented assembly of elongated nanoparticles. Journal of Magnetism and Magnetic Materials, 2022, 562, 169804.	1.0	0
1147	Improvement in magnetic nanoparticle tomography estimation accuracy by combining sLORETA and non-negative least squares methods. Journal of Magnetism and Magnetic Materials, 2022, 563, 169953.	1.0	2
1148	Resolving ambiguities in core size determination of magnetic nanoparticles from magnetic frequency mixing data. Journal of Magnetism and Magnetic Materials, 2022, 563, 169969.	1.0	4
1149	Fixed Magnetic Nanoparticles: Obtaining Anisotropy Energy Density from High Field Magnetization. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
1150	OPM Gradiometer for Magnetorelaxometry. , 2022, , 227-245.		0
1151	Unshielded High-Bandwidth Magnetorelaxometry of Magnetic Nanoparticles with Optically Pumped Magnetometers. , 2022, , 247-265.		0
1152	Stimuli-responsive polyelectrolyte multilayer films and microcapsules. Advances in Colloid and Interface Science, 2022, 310, 102773.	7.0	13
1153	Fixed magnetic nanoparticles: Obtaining anisotropy energy density from high field magnetization. Journal of Magnetism and Magnetic Materials, 2022, 563, 169962.	1.0	2
1154	Tubular Geometries. Topics in Applied Physics, 2022, , 163-213.	0.4	2
1156	Broadening the Horizons of RNA Delivery Strategies in Cancer Therapy. Bioengineering, 2022, 9, 576.	1.6	4
1157	MÃ¶ssbauer Spectroscopy with a High Velocity Resolution in the Studies of Nanomaterials. Nanomaterials, 2022, 12, 3748.	1.9	5
1158	Design, Fabrication, and Characterization of Magnetoresponsive Materials and Devices. Materials, 2022, 15, 7183.	1.3	0
1159	Assessing the Challenges of Nanotechnology-Driven Targeted Therapies: Development of Magnetically Directed Vectors for Targeted Cancer Therapies and Beyond. Methods in Molecular Biology, 2023, , 105-123.	0.4	0
1160	Tailored cancer therapy by magnetic nanoparticle hyperthermia: A virtual scenario simulation method. Computer Methods and Programs in Biomedicine, 2022, 226, 107185.	2.6	5
1161	Study of the suitability of manganese-substituted cobalt ferrites nanoparticles as MRI contrast agent and treatment by employing hyperthermia temperature. Journal of Magnetism and Magnetic Materials, 2022, 564, 170065.	1.0	6
1162	Influence of structure and magnetic properties of surface modified nanoparticles for hyperthermia application. Physica B: Condensed Matter, 2023, 648, 414405.	1.3	4
1163	Magnetic nanofluids (Ferrofluids): Recent advances, applications, challenges, and future directions. Advances in Colloid and Interface Science, 2023, 311, 102810.	7.0	52
1164	Evaluation of Fe-nitrides, -borides and -carbides for enhanced magnetic fluid hyperthermia with experimental study of Î±â€³-Fe₁₆N₂ and Ïµ-Fe₃N nanoparticles. Journal Physics D: Applied Physics, 2023, 56, 025001.	1.3	6
1165	Two-Phase System for Generating a Higher-Frequency Rotating Magnetic Field Excited Causing Hyperthermic Effect in Magnetic Fluids. Energies, 2022, 15, 8326.	1.6	2
1166	Magnetic relaxation of a system of interacting magnetic nanoparticles at finite temperature. Physica B: Condensed Matter, 2023, 649, 414497.	1.3	3
1167	Research for fabrication and antibacterial properties of hybrid nanoparticles Ag-MnFe2O4. International Journal of Physical Sciences, 2022, 17, 51-56.	0.1	0
1168	Improved magnetic drug targeting with maximized magnetic forces and limited particle spreading. Medical Physics, 2023, 50, 1715-1727.	1.6	1

#	Article	IF	Citations
1170	Development of radiopharmaceuticals for targeted alpha therapy: Where do we stand?. Frontiers in Medicine, 0, 9, .	1.2	13
1171	Nonlinear Susceptibility of a Viscoelastic Ferrocolloid: Effect of Displacement Field. Colloid Journal, 2022, 84, 741-753.	0.5	1
1172	Additive Nanosecond Laser-Induced Forward Transfer of High Antibacterial Metal Nanoparticle Dose onto Foodborne Bacterial Biofilms. Micromachines, 2022, 13, 2170.	1.4	3
1173	Magneticâ€responsive Covalent Adaptable Networks. Chemistry - an Asian Journal, 2023, 18, .	1.7	5
1174	Multifunctional nanocarriers of Fe₃O₄@PLA-PEG/curcumin for MRI, magnetic hyperthermia and drug delivery. Nanomedicine, 2022, 17, 1677-1693.	1.7	8
1175	Inhalable Formulations to Treat Non-Small Cell Lung Cancer (NSCLC): Recent Therapies and Developments. Pharmaceutics, 2023, 15, 139.	2.0	4
1176	Strategies involved in bio-inspired synthesis of metallic nanomaterials and their applicationsâ€"A comprehensive account. , 2023, , 1-36.		0
1177	Magnetic-Particle-Discrimination Method Using Difference of Relaxation Time for Magnetic Particle Imaging. IEEE Magnetics Letters, 2023, 14, 1-5.	0.6	0
1178	Specific absorption rate in quasispherical and elongated aggregates of magnetite nanoparticles: Experimental characterization and numerical simulation. Ceramics International, 2023, 49, 16379-16384.	2.3	0
1179	Emerging application of magnetic nanoparticles for breast cancer therapy. European Polymer Journal, 2023, 187, 111898.	2.6	28
1180	Cell-Penetrating Peptidic GRP78 Ligand-Conjugated Iron Oxide Magnetic Nanoparticles for Tumor-Targeted Doxorubicin Delivery and Imaging. ACS Applied Bio Materials, 2023, 6, 1019-1031.	2.3	7
1181	Paclitaxel-Loaded Lipid-Coated Magnetic Nanoparticles for Dual Chemo-Magnetic Hyperthermia Therapy of Melanoma. Pharmaceutics, 2023, 15, 818.	2.0	6
1182	Monitoring magnetic nanoparticle clustering and immobilization with thermal noise magnetometry using optically pumped magnetometers. Nanoscale Advances, 2023, 5, 2341-2351.	2.2	2
1184	Historical background of magnetic fluid hyperthermia. , 2023, , 17-35.		0
1185	Magnetization relaxation dynamics in polydisperse ferrofluids. Physical Review E, 2023, 107, .	0.8	0
1186	Specific absorption rate of randomly oriented magnetic nanoparticles in a static magnetic field. Beilstein Journal of Nanotechnology, 0, 14, 485-493.	1.5	1
1187	Electromagnetic heating using nanomaterials and various potentials applications. Science and Technology, 2023, 61, .	0.1	0
1190	Using the Magpylib library to analyze the ferrofluids in magnetic field sourcing from cylinders. AIP Conference Proceedings, 2023, , .	0.3	0

#	Article	IF	Citations
1203	Magnetic microactuators for self-clearing implantable catheters. , 2023, , 129-158.		1
1211	Evaluation of magnetization response of magnetic nanoparticles internalized into cultured adherent cells. , 2023, , .		0
1216	Dynamic magnetization and specific loss powers of commercial magnetic nanoparticles. , 2023, , .		0
1217	Characterization of NÃ©el relaxation time in multicore magnetic nanoparticles. , 2023, , .		0
1236	Functionalized magnetic nanosystems for in-vivo diagnosis and therapy. , 2024, , 529-558.		0
1237	Characterization techniques of functionalized magnetic nanosystems. , 2024, , 115-139.		0