

Carlos Rinaldi

List of Publications by Year in descending order

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171
papers

7,201
citations

53794

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h-index

69250

77
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173
all docs

173
docs citations

173
times ranked

9085
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Particle Imaging-Guided Heating <i>in Vivo</i> Using Gradient Fields for Arbitrary Localization of Magnetic Hyperthermia Therapy. ACS Nano, 2018, 12, 3699-3713.	14.6	304
2	EGFR-Targeted Magnetic Nanoparticle Heaters Kill Cancer Cells without a Perceptible Temperature Rise. ACS Nano, 2011, 5, 7124-7129.	14.6	294
3	Thermal Decomposition Synthesis of Iron Oxide Nanoparticles with Diminished Magnetic Dead Layer by Controlled Addition of Oxygen. ACS Nano, 2017, 11, 2284-2303.	14.6	286
4	Effect of Mn substitution on electrical and magnetic properties of Bi _{0.9} La _{0.1} FeO ₃ . Journal of Applied Physics, 2009, 106, .	2.5	273
5	Recent progress in ferrofluids research: novel applications of magnetically controllable and tunable fluids. Soft Matter, 2014, 10, 8584-8602.	2.7	260
6	Lysosomal Membrane Permeabilization by Targeted Magnetic Nanoparticles in Alternating Magnetic Fields. ACS Nano, 2013, 7, 5091-5101.	14.6	224
7	Magnetic fluid hyperthermia: Advances, challenges, and opportunity. International Journal of Hyperthermia, 2013, 29, 706-714.	2.5	220
8	Enhanced Nanoparticle Size Control by Extending LaMer's Mechanism. Chemistry of Materials, 2015, 27, 6059-6066.	6.7	195
9	Magnetic fluid rheology and flows. Current Opinion in Colloid and Interface Science, 2005, 10, 141-157.	7.4	174
10	Effect of surface charge on the colloidal stability and in vitro uptake of carboxymethyl dextran-coated iron oxide nanoparticles. Journal of Nanoparticle Research, 2013, 15, 1874.	1.9	141
11	Colloidal dispersions of monodisperse magnetite nanoparticles modified with poly(ethylene glycol). Journal of Colloid and Interface Science, 2009, 329, 107-113.	9.4	121
12	Using magnetic particle imaging systems to localize and guide magnetic hyperthermia treatment: tracers, hardware, and future medical applications. Theranostics, 2020, 10, 2965-2981.	10.0	115
13	Combining magnetic particle imaging and magnetic fluid hyperthermia in a theranostic platform. Physics in Medicine and Biology, 2017, 62, 3483-3500.	3.0	113
14	Thermal potentiation of chemotherapy by magnetic nanoparticles. Nanomedicine, 2013, 8, 1689-1707.	3.3	112
15	Synthesis and magnetic characterization of cobalt-substituted ferrite (Co _x Fe _{3-<i>x</i>} O ₄) nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 314, 60-67.	2.3	111
16	Effect of Molecular Weight, Temperature, and Additives on the Moisture Sorption Properties of Polyethylene Glycol. Journal of Pharmaceutical Sciences, 2010, 99, 154-168.	3.3	104
17	Water dispersible iron oxide nanoparticles coated with covalently linked chitosan. Journal of Materials Chemistry, 2009, 19, 6870.	6.7	96
18	Spin-up flow of ferrofluids: Asymptotic theory and experimental measurements. Physics of Fluids, 2008, 20, .	4.0	84

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19	Enhanced reduction in cell viability by hyperthermia induced by magnetic nanoparticles. <i>International Journal of Nanomedicine</i> , 2011, 6, 373.	6.7	83
20	Role of Viscosity in Influencing the Glass-Forming Ability of Organic Molecules from the Undercooled Melt State. <i>Pharmaceutical Research</i> , 2012, 29, 271-284.	3.5	82
21	Dielectric anomalies due to grain boundary conduction in chemically substituted BiFeO ₃ . <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	78
22	Salmonella enterica Serovar Typhimurium Alters the Extracellular Proteome of Macrophages and Leads to the Production of Proinflammatory Exosomes. <i>Infection and Immunity</i> , 2018, 86, .	2.2	75
23	Body versus surface forces in continuum mechanics: Is the Maxwell stress tensor a physically objective Cauchy stress?. <i>Physical Review E</i> , 2002, 65, 036615.	2.1	72
24	Synthesis and characterization of carboxymethyl dextran-coated Mn/Zn ferrite for biomedical applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 3061-3066.	2.3	72
25	Magnetic Characterization of Iron Oxide Nanoparticles for Biomedical Applications. <i>Methods in Molecular Biology</i> , 2017, 1570, 47-71.	0.9	70
26	Synthesis and agglomeration of gold nanoparticles in reverse micelles. <i>Nanotechnology</i> , 2005, 16, S618-S625.	2.6	67
27	Influence of aging time of oleate precursor on the magnetic relaxation of cobalt ferrite nanoparticles synthesized by the thermal decomposition method. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 328, 41-52.	2.3	67
28	Effects of the Molecular Weight and Concentration of Polymer Additives, and Temperature on the Melt Crystallization Kinetics of a Small Drug Molecule. <i>Crystal Growth and Design</i> , 2010, 10, 3585-3595.	3.0	66
29	Effects of spin viscosity on ferrofluid flow profiles in alternating and rotating magnetic fields. <i>Physics of Fluids</i> , 2002, 14, 2847-2870.	4.0	64
30	Fundamental solutions to the bioheat equation and their application to magnetic fluid hyperthermia. <i>International Journal of Hyperthermia</i> , 2010, 26, 475-484.	2.5	63
31	Dynamic magneto-electric multiferroics PZT/CFO multilayered nanostructure. <i>Journal of Materials Science</i> , 2009, 44, 5127-5142.	3.7	62
32	Nanoscale Thermal Phenomena in the Vicinity of Magnetic Nanoparticles in Alternating Magnetic Fields. <i>Advanced Functional Materials</i> , 2016, 26, 3933-3941.	14.9	62
33	Synthesis and functionalization of magnetite nanoparticles with aminopropylsilane and carboxymethyl dextran. <i>Journal of Materials Chemistry</i> , 2008, 18, 3650.	6.7	60
34	Applications of magnetic nanoparticles in medicine: magnetic fluid hyperthermia. <i>Puerto Rico Health Sciences Journal</i> , 2009, 28, 227-38.	0.2	59
35	Monitoring iron oxide nanoparticle surface temperature in an alternating magnetic field using thermoresponsive fluorescent polymers. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	57
36	Surface modification of magnetite nanoparticles for biomedical applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1397-1399.	2.3	55

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37	Tracking adoptive T cell immunotherapy using magnetic particle imaging. <i>Nanotheranostics</i> , 2021, 5, 431-444.	5.2	55
38	Multifunctional magnetite nanoparticles coated with fluorescent thermo-responsive polymeric shells. <i>Journal of Materials Chemistry</i> , 2008, 18, 855.	6.7	54
39	Perfusion, cryopreservation, and nanowarming of whole hearts using colloiddally stable magnetic cryopreservation agent solutions. <i>Science Advances</i> , 2021, 7, .	10.3	54
40	The effect of grafting method on the colloidal stability and in vitro cytotoxicity of carboxymethyl dextran coated magnetic nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 8539.	6.7	53
41	Superferromagnetic Nanoparticles Enable Order-of-Magnitude Resolution & Sensitivity Gain in Magnetic Particle Imaging. <i>Small Methods</i> , 2021, 5, e2100796.	8.6	52
42	Effect of poly(ethylene oxide)-silane graft molecular weight on the colloidal properties of iron oxide nanoparticles for biomedical applications. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 40-50.	9.4	50
43	Bulk Flow in Ferrofluids in a Uniform Rotating Magnetic Field. <i>Physical Review Letters</i> , 2006, 96, 194501.	7.8	49
44	Quantitative nanoscale viscosity measurements using magnetic nanoparticles and SQUID AC susceptibility measurements. <i>Soft Matter</i> , 2011, 7, 4497.	2.7	48
45	Single-Step Assembly of Multimodal Imaging Nanocarriers: MRI and Long-Wavelength Fluorescence Imaging. <i>Advanced Healthcare Materials</i> , 2015, 4, 1376-1385.	7.6	48
46	Magnetoviscosity in dilute ferrofluids from rotational Brownian dynamics simulations. <i>Physical Review E</i> , 2010, 82, 046310.	2.1	47
47	<i>HSP70</i> Inhibition Synergistically Enhances the Effects of Magnetic Fluid Hyperthermia in Ovarian Cancer. <i>Molecular Cancer Therapeutics</i> , 2017, 16, 966-976.	4.1	47
48	Externally Triggered Heat and Drug Release from Magnetically Controlled Nanocarriers. <i>ACS Applied Polymer Materials</i> , 2019, 1, 211-220.	4.4	47
49	Monitoring gelation using magnetic nanoparticles. <i>Soft Matter</i> , 2010, 6, 3662.	2.7	46
50	Synthesis and magnetic behavior of nanostructured ferrites for spintronics. <i>Microelectronics Journal</i> , 2005, 36, 475-479.	2.0	45
51	Magnetic fluid hyperthermia enhances cytotoxicity of bortezomib in sensitive and resistant cancer cell lines. <i>International Journal of Nanomedicine</i> , 2014, 9, 145.	6.7	44
52	Theoretical predictions for spatially-focused heating of magnetic nanoparticles guided by magnetic particle imaging field gradients. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 419, 267-273.	2.3	44
53	Hyperthermic potentiation of cisplatin by magnetic nanoparticle heaters is correlated with an increase in cell membrane fluidity. <i>International Journal of Nanomedicine</i> , 2013, 8, 1003.	6.7	43
54	Monitoring colloidal stability of polymer-coated magnetic nanoparticles using AC susceptibility measurements. <i>Journal of Colloid and Interface Science</i> , 2010, 342, 540-549.	9.4	41

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55	Long circulating tracer tailored for magnetic particle imaging. <i>Nanotheranostics</i> , 2021, 5, 348-361.	5.2	40
56	Fe ₃ O ₄ /SiO ₂ Core/Shell Nanocubes: Novel Coating Approach with Tunable Silica Thickness and Enhancement in Stability and Biocompatibility. <i>Journal of Nanomedicine & Nanotechnology</i> , 2014, 05, .	1.1	39
57	Combining magnetic particle imaging and magnetic fluid hyperthermia for localized and image-guided treatment. <i>International Journal of Hyperthermia</i> , 2020, 37, 141-154.	2.5	39
58	Stroma-derived extracellular vesicles deliver tumor-suppressive miRNAs to pancreatic cancer cells. <i>Oncotarget</i> , 2018, 9, 5764-5777.	1.8	39
59	Preparation of epidermal growth factor (EGF) conjugated iron oxide nanoparticles and their internalization into colon cancer cells. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 2244-2250.	2.3	38
60	Synthesis, stability, cellular uptake, and blood circulation time of carboxymethyl-inulin coated magnetic nanoparticles. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2807.	5.8	38
61	Glasslike state in PbFe _{1/2} Nb _{1/2} O ₃ single crystal. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	37
62	Molecular dynamics simulations of rupture in lipid bilayers. <i>Experimental Biology and Medicine</i> , 2010, 235, 181-188.	2.4	35
63	Magnetic nanoparticles loaded with functional RNA nanoparticles. <i>Nanoscale</i> , 2018, 10, 17761-17770.	5.6	35
64	Magnetic Assembly and Cross-Linking of Nanoparticles for Releasable Magnetic Microstructures. <i>ACS Nano</i> , 2015, 9, 10165-10172.	14.6	34
65	Estimating the contribution of Brownian and Néel relaxation in a magnetic fluid through dynamic magnetic susceptibility measurements. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 412, 223-233.	2.3	34
66	Effect of Sample Concentration on the Determination of the Anisotropy Constant of Magnetic Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 852-859.	2.1	33
67	Magnetization Dynamics and Energy Dissipation of Interacting Magnetic Nanoparticles in Alternating Magnetic Fields with and without a Static Bias Field. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21018-21030.	3.1	33
68	Radical Departure: Thermally-Triggered Degradation of Azo-Containing Poly(β -thioester)s. <i>ACS Macro Letters</i> , 2016, 5, 688-693.	4.8	32
69	Magnetic particle templating of hydrogels: engineering naturally derived hydrogel scaffolds with 3D aligned microarchitecture for nerve repair. <i>Journal of Neural Engineering</i> , 2020, 17, 016057.	3.5	32
70	Observation of magnetoelectric coupling in glassy epitaxial PbFe _{0.5} Nb _{0.5} O ₃ thin films. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	30
71	Rotational Brownian dynamics simulations of non-interacting magnetized ellipsoidal particles in d.c. and a.c. magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 2985-2991.	2.3	30
72	Breakdown of the Stokes-Einstein Relation for the Rotational Diffusivity of Polymer Grafted Nanoparticles in Polymer Melts. <i>Nano Letters</i> , 2016, 16, 6767-6773.	9.1	30

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73	Nonlinear energy dissipation of magnetic nanoparticles in oscillating magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 393, 46-55.	2.3	29
74	Hyperthermia Induced by Magnetic Nanoparticles Improves the Effectiveness of the Anticancer Drug <i>cisplatin</i> . <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4153-4157.	0.9	28
75	A comparison of the magnetorheology of two ferrofluids with different magnetic field-dependent chaining behavior. <i>Rheologica Acta</i> , 2013, 52, 719-726.	2.4	28
76	Flows and torques in Brownian ferrofluids subjected to rotating uniform magnetic fields in a cylindrical and annular geometry. <i>Physics of Fluids</i> , 2014, 26, .	4.0	28
77	Torque measurements on ferrofluid cylinders in rotating magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 289, 307-310.	2.3	27
78	Optimization of synthesis and peptization steps to obtain iron oxide nanoparticles with high energy dissipation rates. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 394, 361-371.	2.3	27
79	Magnetic nanoparticle hyperthermia potentiates paclitaxel activity in sensitive and resistant breast cancer cells. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 4771-4779.	6.7	27
80	Engineering magnetic nanoparticles and their integration with microfluidics for cell isolation. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 204-215.	9.4	26
81	Synthesis and Characterization of Linear Trinuclear Pd, Co, and Pd/Co Pyrazolate Complexes. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 4745-4755.	2.0	24
82	The clearance and biodistribution of magnetic composite nanoparticles in healthy and osteoarthritic rat knees. <i>Journal of Controlled Release</i> , 2020, 321, 259-271.	9.9	24
83	Emerging Biomedical Applications Based on the Response of Magnetic Nanoparticles to Time-Varying Magnetic Fields. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2021, 12, 163-185.	6.8	24
84	Magnetoviscosity of dilute suspensions of magnetic ellipsoids obtained through rotational Brownian dynamics simulations. <i>Journal of Colloid and Interface Science</i> , 2009, 331, 500-506.	9.4	23
85	Strain-induced artificial multiferroicity in $\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3/\text{Pb}(\text{Fe}_{0.66}\text{W}_{0.33})\text{O}_3$ layered nanostructure at ambient temperature. <i>Journal of Materials Science</i> , 2009, 44, 5113-5119.	3.7	22
86	Torque Measurements in Spin-Up Flow of Ferrofluids. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2004, 126, 198-205.	1.5	21
87	On the effect of finite magnetic relaxation on the magnetic particle imaging performance of magnetic nanoparticles. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	21
88	Magnetothermal repair of a PMMA/iron oxide magnetic nanocomposite. <i>Colloid and Polymer Science</i> , 2014, 292, 1429-1437.	2.1	21
89	Alternating current (AC) susceptibility as a particle-focused probe of coating and clustering behaviour in magnetic nanoparticle suspensions. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 536-545.	9.4	21
90	Magnetic particle imaging performance of liposomes encapsulating iron oxide nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 504, 166675.	2.3	21

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91	Dielectric dispersion and magnetic properties of Ba-modified Pb(Fe _{1/2} Nb _{1/2})O ₃ . Applied Physics A: Materials Science and Processing, 2007, 89, 793-798.	2.3	20
92	Magnetoviscosity of dilute magnetic fluids in oscillating and rotating magnetic fields. Physics of Fluids, 2010, 22, .	4.0	20
93	Curing of a Bisphenol E Based Cyanate Ester Using Magnetic Nanoparticles as an Internal Heat Source through Induction Heating. ACS Applied Materials & Interfaces, 2013, 5, 11329-11335.	8.0	20
94	Preparation and evaluation of microfluidic magnetic alginate microparticles for magnetically templated hydrogels. Journal of Colloid and Interface Science, 2020, 561, 647-658.	9.4	20
95	Effects of particle diameter and magnetocrystalline anisotropy on magnetic relaxation and magnetic particle imaging performance of magnetic nanoparticles. Physics in Medicine and Biology, 2020, 65, 025014.	3.0	20
96	Effect of sodium alginate and different types of oil on the physical properties of ultrasound-assisted nanoemulsions. Chemical Engineering and Processing: Process Intensification, 2020, 153, 107942.	3.6	20
97	Exosomes released by breast cancer cells under mild hyperthermic stress possess immunogenic potential and modulate polarization <i>in vitro</i> in macrophages. International Journal of Hyperthermia, 2020, 37, 696-710.	2.5	20
98	Flow of ferrofluid in an annular gap in a rotating magnetic field. Physics of Fluids, 2010, 22, .	4.0	19
99	Thermal Energy Dissipation by SiO ₂ -Coated Plasmonic-Superparamagnetic Nanoparticles in Alternating Magnetic Fields. Chemistry of Materials, 2013, 25, 4603-4612.	6.7	18
100	Theranostic nanocarriers combining high drug loading and magnetic particle imaging. International Journal of Pharmaceutics, 2019, 572, 118796.	5.2	18
101	Fast nanoparticle rotational and translational diffusion in synovial fluid and hyaluronic acid solutions. Science Advances, 2021, 7, .	10.3	18
102	Low-frequency dielectric dispersion and magnetic properties of La, Gd modified Pb(Fe _{1/2} Ta _{1/2})O ₃ multiferroics. Journal of Magnetism and Magnetic Materials, 2007, 313, 253-260.	2.3	17
103	Observations of ferrofluid flow under a uniform rotating magnetic field in a spherical cavity. Journal of Applied Physics, 2012, 111, .	2.5	17
104	In Situ Evaluation of Nanoparticle-Protein Interactions by Dynamic Magnetic Susceptibility Measurements. Particle and Particle Systems Characterization, 2014, 31, 561-570.	2.3	17
105	Determining drug release rates of hydrophobic compounds from nanocarriers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150128.	3.4	17
106	Scale-dependent rotational diffusion of nanoparticles in polymer solutions. Nanoscale, 2017, 9, 12039-12050.	5.6	17
107	Synthesis and characterization of polymer nanocomposites containing magnetic nanoparticles. Journal of Applied Physics, 2010, 107, 09B506.	2.5	16
108	Tissue-specific direct microtransfer of nanomaterials into Drosophila embryos as a versatile <i>in vivo</i> test bed for nanomaterial toxicity assessment. International Journal of Nanomedicine, 2014, 9, 2031.	6.7	16

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109	Fabrication of Ordered Mesoporous Silica Films with Encapsulated Iron Oxide Nanoparticles using Ferritin-Doped Block Copolymer Templates. <i>Chemistry of Materials</i> , 2009, 21, 2125-2129.	6.7	15
110	Investigation of temperature-dependent polarization, dielectric, and magnetization behavior of multiferroic layered nanostructure. <i>Thin Solid Films</i> , 2010, 519, 641-649.	1.8	15
111	All-nanoparticle concave diffraction grating fabricated by self-assembly onto magnetically-recorded templates. <i>Optics Express</i> , 2013, 21, 1066.	3.4	15
112	Remotely Triggered Activation of TGF- With Magnetic Nanoparticles. <i>IEEE Magnetics Letters</i> , 2015, 6, 1-4.	1.1	15
113	Computational predictions of enhanced magnetic particle imaging performance by magnetic nanoparticle chains. <i>Physics in Medicine and Biology</i> , 2020, 65, 185013.	3.0	15
114	Enhanced proteotoxic stress: one of the contributors for hyperthermic potentiation of the proteasome inhibitor bortezomib using magnetic nanoparticles. <i>Biomaterials Science</i> , 2015, 3, 391-400.	5.4	14
115	Magnetic and magnetorheological characterization of a polymer liquid crystal ferronematic. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	13
116	Transient magnetoviscosity of dilute ferrofluids. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1319-1323.	2.3	13
117	Oscillatory shear response of dilute ferrofluids: Predictions from rotational Brownian dynamics simulations and ferrohydrodynamics modeling. <i>Physical Review E</i> , 2011, 84, 056306.	2.1	13
118	Enhanced rheological properties of dilute suspensions of magnetic nanoparticles in a concentrated amphiphilic surfactant solution. <i>Soft Matter</i> , 2012, 8, 5327.	2.7	13
119	Ferrohydrodynamic modeling of magnetic nanoparticle harmonic spectra for magnetic particle imaging. <i>Journal of Applied Physics</i> , 2015, 118, 173906.	2.5	13
120	Ferrofluid flow in the annular gap of a multipole rotating magnetic field. <i>Physics of Fluids</i> , 2011, 23, .	4.0	12
121	Ferrofluid flow in a spherical cavity under an imposed uniform rotating magnetic field: Spherical spin-up flow. <i>Physics of Fluids</i> , 2012, 24, .	4.0	12
122	Interfacial stress balances in structured continua and free surface flows in ferrofluids. <i>Physics of Fluids</i> , 2014, 26, 042101.	4.0	12
123	Magnetic nanoparticle targeting of lysosomes: a viable method of overcoming tumor resistance?. <i>Nanomedicine</i> , 2014, 9, 937-939.	3.3	12
124	Assessing magnetic nanoparticle aggregation in polymer melts by dynamic magnetic susceptibility measurements. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 378, 64-72.	2.3	12
125	Stability and Mobility of Magnetic Nanoparticles in Biological Environments Determined from Dynamic Magnetic Susceptibility Measurements. <i>Bioconjugate Chemistry</i> , 2018, 29, 2793-2805.	3.6	12
126	Multifunctional nanoparticles for intracellular drug delivery and photoacoustic imaging of mesenchymal stem cells. <i>Drug Delivery and Translational Research</i> , 2019, 9, 652-666.	5.8	12

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127	Magnetic nanoparticles. , 2020, , 195-221.		12
128	A Statistical Analysis to Control the Growth of Cobalt Ferrite Nanoparticles Synthesized by the Thermodecomposition Method. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2010, 132, .	2.2	11
129	Processing-size correlations in the preparation of magnetic alginate microspheres through emulsification and ionic crosslinking. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 529, 119-127.	4.7	11
130	Mixing of granular materials. Part I: Effect of periodic shear. Powder Technology, 2010, 197, 9-16.	4.2	10
131	From oleic acid-capped iron oxide nanoparticles to polyethyleneimine-coated single-particle magnetofectins. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	10
132	Rotational diffusion of magnetic nanoparticles in protein solutions. Journal of Colloid and Interface Science, 2017, 506, 393-402.	9.4	10
133	Electro-infiltrated nickel/iron-oxide and permalloy/iron-oxide nanocomposites for integrated power inductors. Journal of Magnetism and Magnetic Materials, 2020, 493, 165718.	2.3	10
134	Torque and Bulk Flow of Ferrofluid in an Annular Gap Subjected to a Rotating Magnetic Field. Journal of Fluids Engineering, Transactions of the ASME, 2007, 129, 412-422.	1.5	9
135	Effect of surfactant-coated iron oxide nanoparticles on the effluent water quality from a simulated sequencing batch reactor treating domestic wastewater. Environmental Pollution, 2011, 159, 3411-3415.	7.5	9
136	Finite magnetic relaxation in k -space magnetic particle imaging: comparison of measurements and ferrohydrodynamic models. Journal Physics D: Applied Physics, 2016, 49, 305002.	2.8	9
137	Brownian Dynamics Simulations of Magnetic Nanoparticles Captured in Strong Magnetic Field Gradients. Journal of Physical Chemistry C, 2017, 121, 801-810.	3.1	9
138	<p>In vitro Ultrasonic Potentiation of 2-Phenylethanesulfonamide/Magnetic Fluid Hyperthermia Combination Treatments for Ovarian Cancer<p>. International Journal of Nanomedicine, 2020, Volume 15, 419-432.	6.7	9
139	Absence of magnetism in Cr-doped In_2O_3 : a case study of phase separation versus phase formation. Journal Physics D: Applied Physics, 2011, 44, 495002.	2.8	8
140	Influence of nanoparticle surface chemistry on the thermomechanical and magnetic properties of ferromagnetic nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1163-1172.	2.1	8
141	Design and validation of magnetic particle spectrometer for characterization of magnetic nanoparticle relaxation dynamics. AIP Advances, 2017, 7, 056730.	1.3	8
142	Benchtop magnetic particle relaxometer for detection, characterization and analysis of magnetic nanoparticles. Physics in Medicine and Biology, 2018, 63, 175016.	3.0	8
143	Development and validation of a 10â€‰kHzâ€‰1â€‰MHz magnetic susceptometer with constant excitation field. Journal of Applied Physics, 2012, 111, 07E349.	2.5	7
144	Preparation of magnetic polymer colloids with Brownian magnetic relaxation. Colloid and Polymer Science, 2014, 292, 1191-1198.	2.1	7

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145	Brownian dynamics simulations of ellipsoidal magnetizable particle suspensions. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 235003.	2.8	7
146	Effects of spin viscosity on ferrofluid duct flow profiles in alternating and rotating magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 252, 172-175.	2.3	6
147	Rheological, optical, and thermal characterization of temperature-induced transitions in liquid crystal ferrosuspensions. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	6
148	Spin-glass behavior of a hierarchically-organized, hybrid microporous material, based on an extended framework of octanuclear iron-oxo units. <i>Dalton Transactions</i> , 2015, 44, 3399-3409.	3.3	6
149	A theranostic platform for localized magnetic fluid hyperthermia and magnetic particle imaging. <i>Proceedings of SPIE</i> , 2017, , .	0.8	6
150	Image-Guided Thermal Therapy Using Magnetic Particle Imaging and Magnetic Fluid Hyperthermia. , 2019, , 265-286.		6
151	Ferrohydrodynamic instabilities in DC magnetic fields. <i>Journal of Visualization</i> , 2004, 7, 8-8.	1.8	5
152	Magnetic particle translation as a surrogate measure for synovial fluid mechanics. <i>Journal of Biomechanics</i> , 2017, 60, 9-14.	2.1	5
153	Modulation of Interparticle Interactions and Specific Absorption Rate in Magnetomicelles through Changes in the Molecular Weight of the Hydrophobic Polymer Block. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 964-971.	2.3	4
154	Spin-up flow in non-small magnetic fields: Numerical evaluation of the predictions of the common magnetization relaxation equations. <i>Physics of Fluids</i> , 2017, 29, 073102.	4.0	4
155	In situ measurements of dispersed and continuous phase viscosities of emulsions using nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2017, 486, 241-248.	9.4	4
156	Spatially-resolved nanometer-scale measurement of cartilage extracellular matrix mobility. <i>Osteoarthritis and Cartilage</i> , 2021, 29, 1351-1361.	1.3	3
157	An anatomically correct 3D-printed mouse phantom for magnetic particle imaging studies. <i>Bioengineering and Translational Medicine</i> , 2022, 7, .	7.1	3
158	AN INVARIANT GENERAL SOLUTION FOR THE MAGNETIC FIELDS WITHIN AND SURROUNDING A SMALL SPHERICAL PARTICLE IN AN IMPOSED ARBITRARY MAGNETIC FIELD AND THE RESULTING MAGNETIC FORCE AND COUPLE. <i>Chemical Engineering Communications</i> , 2009, 197, 92-111.	2.6	2
159	Magneto-Electric Coupling in PbZr _{0.53} Ti _{0.47} O ₃ /CoFe ₂ O ₄ Layered Thin Films. <i>Integrated Ferroelectrics</i> , 2011, 124, 33-40.	0.7	2
160	Flow of immiscible ferrofluids in a planar gap in a rotating magnetic field. <i>Physics of Fluids</i> , 2015, 27, .	4.0	2
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