

CITATION REPORT

List of articles citing

Magnetic nanoparticles for drug delivery

DOI: 10.1016/s1748-0132(07)70084-1
Nano Today, 2007, 2, 22-32.

Source: <https://exaly.com/paper-pdf/42759759/citation-report.pdf>

Version: 2024-04-11

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
1243	Patents and nanomedicine. 2007 , 2, 351-74		63
1242	Assessing methods for blood cell cytotoxic responses to inorganic nanoparticles and nanoparticle aggregates. 2008 , 4, 2025-34		157
1241	Chitosan-induced synthesis of magnetite nanoparticles via iron ions assembly. 2008 , 19, 1256-1261		62
1240	Magnetic colloids as drug vehicles. 2008 , 97, 2948-83		141
1239	Drug-loaded superparamagnetic iron oxide nanoparticles for combined cancer imaging and therapy in vivo. 2008 , 47, 5362-5		517
1238	Drug-Loaded Superparamagnetic Iron Oxide Nanoparticles for Combined Cancer Imaging and Therapy In Vivo. 2008 , 120, 5442-5445		54
1237	One-step synthesis and functionalization of hydroxyl-decorated magnetite nanoparticles. 2008 , 322, 173-9		43
1236	Field induced rotational viscosity of ferrofluid: effect of capillary size and magnetic field direction. 2008 , 323, 153-7		29
1235	The use of charge-coupled polymeric microparticles and micromagnets for modulating the bioavailability of orally delivered macromolecules. 2008 , 29, 1216-23		53
1234	A review of stimuli-responsive nanocarriers for drug and gene delivery. 2008 , 126, 187-204		1837
1233	A novel magnetic approach to enhance the efficacy of cell-based gene therapies. 2008 , 15, 902-10		87
1232	Design and Development of Magnetoliposome-Based Theranostics. 2008 , 23, 611-614		9
1231	Coupling Agent Effect on Magnetic Properties of Functionalized Magnetite-Based Nanoparticles. 2008 , 20, 5869-5875		266
1230	pH controlled release of chromone from chromone-Fe ₃ O ₄ nanoparticles. 2008 , 130, 14436-7		146
1229	Charge Modification of Pharmaceutical Nanocarriers: Biological Implications. 2008 , 337-362		3
1228	Phase-resolved magnetomotive OCT for imaging nanomolar concentrations of magnetic nanoparticles in tissues. 2008 , 16, 11525		74
1227	Magnetite/poly(alkylcyanoacrylate) (core/shell) nanoparticles as 5-Fluorouracil delivery systems for active targeting. 2008 , 69, 54-63		72

1226	Poly(allylamine hydrochloride) dextran microgels functionalized with magnetic and luminescent nanoparticles. 2008 , 18, 4042	21
1225	Some physicochemical aspects of nanoparticulate magnetic iron oxide colloids in neat water and in the presence of poly(vinyl alcohol). 2008 , 24, 11489-96	23
1224	Applying Nanotechnology to Human Health: Revolution in Biomedical Sciences. 2009 , 2009, 1-14	43
1223	Particle size, magnetic field, and blood velocity effects on particle retention in magnetic drug targeting. 2010 , 37, 175-82	63
1222	Antibody-Conjugated Nanoparticles for Biomedical Applications. 2009 , 2009, 1-24	195
1221	COATING THICKNESS STUDY OF BIOPOLYMER-MAGNETITE CORE-SHELL NANOPARTICLES. 2009 , 08, 359-366	
1220	Single-step chemical synthesis of ferrite hollow nanospheres. 2009 , 20, 045606	13
1219	Surface roughening and transport properties in the growth of nano-structured nickel electrodeposits on ITO substrate. 2009 , 115, 551-556	6
1218	Surface-functionalized ultrasmall superparamagnetic nanoparticles as magnetic delivery vectors for camptothecin. 2009 , 4, 988-97	34
1217	Superparamagnetic Composites: Magnetism with No Memory. 2009 , 2009, 333-343	33
1216	Targeted antitumoral dehydrocrotonin nanoparticles with L-ascorbic acid 6-stearate. 2009 , 98, 4796-807	8
1215	Electrophoretic methods for separation of nanoparticles. 2009 , 32, 1889-906	137
1214	Dielectrophoretic separation of carbon nanotubes and polystyrene microparticles. 2009 , 7, 633-645	44
1213	Effect of surface charge and agglomerate degree of magnetic iron oxide nanoparticles on KB cellular uptake in vitro. 2009 , 73, 294-301	123
1212	Preparation and magnetic behavior of carbon-encapsulated iron nanoparticles by detonation method. 2009 , 69, 2554-2558	20
1211	Magnetic alginate microspheres: system for the position controlled delivery of nerve growth factor. 2009 , 11, 517-27	38
1210	Creating functional vesicle assemblies from vesicles and nanoparticles. 2009 , 26, 1701-10	29
1209	Nanotechnology for bone materials. 2009 , 1, 336-51	98

1208	Applications of nanomaterials inside cells. <i>Nano Today</i> , 2009 , 4, 37-51	17.9	200
1207	Nanoparticles: their potential toxicity, waste and environmental management. 2009 , 29, 2587-95		447
1206	Development of Fe ₃ O ₄ -poly(L-lactide) magnetic microparticles in supercritical CO ₂ . 2009 , 330, 317-22		41
1205	Significant delivery of tacrine into the brain using magnetic chitosan microparticles for treating Alzheimer's disease. 2009 , 177, 427-33		48
1204	Synthesis of magnetic nickel spinel ferrite nanospheres by a reverse emulsion-assisted hydrothermal process. 2009 , 182, 2135-2140		69
1203	Progress in the preparation of magnetic nanoparticles for applications in biomedicine. 2009 , 42, 224002		295
1202	Limitations on the optical tunability of small diameter gold nanoshells. 2009 , 25, 11777-85		67
1201	Gum arabic-coated magnetic nanoparticles for potential application in simultaneous magnetic targeting and tumor imaging. 2009 , 11, 693-9		92
1200	Chemical Availability and Reactivity of Functional Groups grafted to Magnetic Nanoparticles monitored In situ by ATR-IR Spectroscopy. 2009 , 21, 4316-4322		31
1199	One-Pot Template-Free Fabrication of Hollow Magnetite Nanospheres and Their Application as Potential Drug Carriers. 2009 , 113, 21042-21047		118
1198	Nanocoatings on micro- or nanoparticles. 2009 , 25, 1307-1311		6
1197	Magnetic nanoparticles for local drug delivery using magnetic implants. 2009 , 544, 559-69		13
1196	Preparation and properties of various magnetic nanoparticles. 2009 , 9, 2352-62		86
1195	Contrast-enhanced radiotherapy: feasibility and characteristics of the physical absorbed dose distribution for deep-seated tumors. 2009 , 54, 5411-25		37
1194	Water soluble dendronized iron oxide nanoparticles. 2009 , 4442-9		80
1193	Preparation, Characterization, and Enzyme Immobilization Capacities of Superparamagnetic Silica/Iron Oxide Nanocomposites with Mesoporous Porosity. 2009 , 21, 1806-1814		66
1192	Magnetic targeting for site-specific drug delivery: applications and clinical potential. 2009 , 6, 53-70		203
1191	Magnetic nanoparticle drug carriers and their study by quadrupole magnetic field-flow fractionation. 2009 , 6, 1290-306		39

1190	Monodisperse Magnetic Polymeric Composite Particles for Biomedical Applications. 2009 , 281, 89-95	11
1189	. 2009 , 113, 19155-19160	22
1188	Targeted photothermal ablation of murine melanomas with melanocyte-stimulating hormone analog-conjugated hollow gold nanospheres. 2009 , 15, 876-86	276
1187	Magnetic nanoparticles: biomedical applications and challenges. 2010 , 20, 8760	284
1186	Controlled assembly of biodegradable plasmonic nanoclusters for near-infrared imaging and therapeutic applications. 2010 , 4, 2178-84	149
1185	Excimer Laser Production, Assembly, Sintering, and Fragmentation of Novel Fullerene-like Permalloy Particles in Liquid. 2010 , 114, 3869-3873	37
1184	Organic-Inorganic Hybrid Magnetic Latex. 2010 , 237-281	24
1183	Colloidal nanocarriers: a review on formulation technology, types and applications toward targeted drug delivery. 2010 , 6, 9-24	491
1182	Polymeric nanomedicines for image-guided drug delivery and tumor-targeted combination therapy. <i>Nano Today</i> , 2010 , 5, 197-212	17.9 114
1181	Magnetic nanoparticles encapsulated latexes prepared with photo-initiated miniemulsion polymerization. 2010 , 288, 1751-1756	18
1180	Novel micro-PIV study enables a greater understanding of nanoparticle suspension flows: nanofluids. 2010 , 8, 837-842	21
1179	Biomagnetic of Apatite-Coated Cobalt Ferrite: A Core-Shell Particle for Protein Adsorption and pH-Controlled Release. 2011 , 6, 19	19
1178	Design and fabrication of non-superparamagnetic high moment magnetic nanoparticles for bioapplications. 2010 , 12, 1101-1106	5
1177	Influence of synthesis method on structural and magnetic properties of cobalt ferrite nanoparticles. 2010 , 12, 1263-1273	94
1176	PEG-functionalized magnetic nanoparticles for drug delivery and magnetic resonance imaging applications. 2010 , 27, 2283-95	140
1175	Magnetophoresis for enhancing transdermal drug delivery: Mechanistic studies and patch design. 2010 , 148, 197-203	69
1174	Intravesical drug delivery: Challenges, current status, opportunities and novel strategies. 2010 , 148, 147-59	172
1173	Iron-included carbon nanocapsules coated with biocompatible poly(ethylene glycol) shells. 2010 , 122, 164-168	8

1172	Remotely triggerable drug delivery systems. 2010 , 22, 4925-43	498
1171	Particle Transport in Magnetophoretic Microsystems. 2010 , 215-262	5
1170	Monitoring colloidal stability of polymer-coated magnetic nanoparticles using AC susceptibility measurements. 2010 , 342, 540-9	38
1169	Synthesis and cytotoxicity assessment of superparamagnetic iron-gold core-shell nanoparticles coated with polyglycerol. 2010 , 345, 64-71	50
1168	Silica coated magnetite particles for magnetic removal of Hg ²⁺ from water. 2010 , 345, 234-40	301
1167	Synthesis and characterization of noscapine loaded magnetic polymeric nanoparticles. 2010 , 322, 190-196	30
1166	Producing ultra-thin silica coatings on iron-oxide nanoparticles to improve their surface reactivity. 2010 , 322, 1847-1853	89
1165	Application of computed tomography images in the evaluation of magnetic nanoparticles biodistribution. 2010 , 322, 2405-2407	4
1164	Iron oxide nanoparticles on flat oxidic surfacesIntroducing a new model catalyst for Fischer-Tropsch catalysis. 2010 , 154, 142-148	36
1163	Bovine serum albumin binding and drug delivery studies with PVA-ferrofluid. 2010 , 7, 29-34	11
1162	Synthesis and characterization of soft polymeric nanoparticles and composites with tunable properties. 2010 , 48, 5239-5246	41
1161	"Smart" liposomal nanocontainers in biology and medicine. 2010 , 75, 811-24	24
1160	Functionalised nanoparticles for targeted drug delivery. 2010 , 267-297	7
1159	Iron Oxide Nanoparticles Obtained from a Fe(II) - Chitosan Polymer Film. 2010 , 644, 51-55	3
1158	Simulation platform for self-assembly structures in MRI-guided nanorobotic drug delivery systems. 2010 ,	9
1157	Liver and brain imaging through dimercaptosuccinic acid-coated iron oxide nanoparticles. 2010 , 5, 397-408	57
1156	Interaction of cationic ultrasmall superparamagnetic iron oxide nanoparticles with human melanoma cells. 2010 , 5, 1075-87	22
1155	Building Nonmagnetic Metal@Oxide and Bimetallic Nanostructures: Potential Applications in the Life Sciences. 2010 ,	

1154	Magnetic Biotransport: Analysis and Applications. 2010 , 3, 2412-2446	78
1153	Hybrid Systems Biomolecule-Polymeric Nanoparticle: Synthesis, Properties and Biotechnological Applications. 2010 , 219-259	2
1152	LbL multilayer capsules: recent progress and future outlook for their use in life sciences. 2010 , 2, 458-67	196
1151	High-frequency, magnetic-field-responsive drug release from magnetic nanoparticle/organic hybrid based on hyperthermic effect. 2010 , 2, 1903-11	210
1150	A Magnetically Controlled Molecular Nanocontainer as a Drug Delivery System: The Effects of Carbon Nanotube and Magnetic Nanoparticle Parameters from Monte Carlo Simulations. 2010 , 114, 21299-21308	34
1149	Nanomedicine. 2010 , 615-735	1
1148	Hydrothermal microemulsion synthesis of oxidatively stable cobalt nanocrystals encapsulated in surfactant/polymer complex shells. 2010 , 26, 6009-14	24
1147	Magnetization Reversal in Chains and Clusters of Exchange-Coupled Nickel Nanoparticles. 2010 , 114, 11115-11118	23
1146	Oil phase evaporation-induced self-assembly of hydrophobic nanoparticles into spherical clusters with controlled surface chemistry in an oil-in-water dispersion and comparison of behaviors of individual and clustered iron oxide nanoparticles. 2010 , 132, 17724-32	135
1145	Magnetization reversal dynamics in clusters of single domain Ni nanoparticles. 2010 , 107, 09B513	14
1144	Synthesis of mono and multidomain YIG particles by chemical coprecipitation or ceramic procedure. 2010 , 495, 196-199	21
1143	One-Pot Biofunctionalization of Magnetic Nanoparticles via Thiolene Click Reaction for Magnetic Hyperthermia and Magnetic Resonance Imaging. 2010 , 22, 3768-3772	75
1142	Magnetic nanoparticles and targeted drug delivering. 2010 , 62, 144-9	480
1141	AgFe ₃ O ₄ Dimer Colloidal Nanoparticles: Synthesis and Enhancement of Magnetic Properties. 2010 , 114, 10148-10152	70
1140	Antiferromagnetic Single Domain L1 ₂ FePt ₃ Nanocrystals. 2010 , 114, 2512-2518	20
1139	ZnFe ₂ O ₄ Nanoparticles: Different Magnetic Behavior When They Are Hosted in Porous Structures. 2010 , 22, 6130-6137	23
1138	Iron Oxide Nanoparticles: Novel Drug Delivery Materials for Treating Bone Diseases. 2010 , 89-91, 411-418	13
1137	An alternative strategy to synthesize PNA and DNA magnetic conjugates forming nanoparticle assembly based on PNA/DNA duplexes. 2010 , 6, 553-61	15

1136	Time-varied magnetic field enhances transport of magnetic nanoparticles in viscous gel. 2010 , 5, 65-76	25
1135	Preparation, Characterization and Application of Modified Surfaces with 3,5-Bis(3,5-dinitrobenzoyl-amino) benzoic acid. 2010 , 290, 37-45	5
1134	Microwave-assisted synthesis of a biocompatible polyacid-conjugated Fe ₃ O ₄ superparamagnetic hybrid. 2011 , 13, 2425	41
1133	Nanomedicine: making controllable magnetic drug delivery possible for the treatment of breast cancer. 2011 , 13, 303	9
1132	Magnetic nanobeads decorated by thermo-responsive PNIPAM shell as medical platforms for the efficient delivery of doxorubicin to tumour cells. 2011 , 3, 619-29	79
1131	Application and Evaluation of Halbach-Like Magnet Arrays to Magnetic Drug Targeting. 2011 , 320, 118-123	
1130	Synthesis and Thermal Behavior of Metallic Cobalt Micro and Nanostructures. 2011 , 3, 12-19	22
1129	Monte Carlo Simulation of Ferromagnetic Hysteresis of 3 Dimensional Ising Spins Using Random Walk under Lennard-Jones Potentials. 2011 , 414, 121-126	
1128	Nucleic acid delivery using magnetic nanoparticles: the Magnetofection technology. 2011 , 2, 471-82	22
1127	Magnetic CorePolymer Shell Nanoparticles: Synthesis and Biomedical Applications. 2011 ,	
1126	NANOTECHNOLOGY IN PHARMACEUTICAL AND BIOMEDICAL APPLICATIONS: DENDRIMERS. 2011 , 06, 509-539	37
1125	Computational Study of Some Aspects of Chemical Optimization of a Functional Magnetically Triggered Nanocontainer. 2011 , 115, 19074-19083	13
1124	A cast-mold approach to iron oxide and Pt/iron oxide nanocontainers and nanoparticles with a reactive concave surface. 2011 , 133, 2205-17	67
1123	Magnetic Nanoparticles for Cancer Imaging and Therapy. 2011 ,	
1122	Controlling the self-assembly structure of magnetic nanoparticles and amphiphilic block-copolymers: from micelles to vesicles. 2011 , 133, 1517-25	281
1121	MRI-guided nanorobotic systems for therapeutic and diagnostic applications. 2011 , 13, 157-84	85
1120	Nanoparticles for Nucleic Acid Delivery. 2011 , 389-410	3
1119	Magnetic carbon nanotubes with particle-free surfaces and high drug loading capacity. 2011 , 22, 355602	32

1118	The effect of coating of Fe ₃ O ₄ /silica core/shell nanoparticles on T ₂ relaxation time at 9.4T. 2011 , 55, 10401	2
1117	Facile fabrication of magnetic metal-organic framework nanocomposites for potential targeted drug delivery. 2011 , 21, 3843	308
1116	Magnetic cell delivery for peripheral arterial disease: A theoretical framework. 2011 , 38, 3932-43	23
1115	Facile synthesis of monodisperse superparamagnetic Fe ₃ O ₄ /PMMA composite nanospheres with high magnetization. 2011 , 22, 225604	42
1114	Superparamagnetic colloidal nanocrystal clusters coated with polyethylene glycol fumarate: a possible novel theranostic agent. 2011 , 3, 1022-30	54
1113	Mechanistic Study on Magnetite Nanoparticle Formation by Thermal Decomposition and Coprecipitation Routes. 2011 , 115, 1380-1387	44
1112	Anisotropic magnetic microparticles from ferrofluid emulsion. 2011 , 7, 1483-1490	52
1111	Engineering the multifunctional surface on magnetic nanoparticles for targeted biomedical applications: a chemical approach. 2011 , 6, 1429-46	33
1110	Stabilization in Water of Large Hydrophobic Uniform Magnetite Cubes by Silica Coating. 2011 , 115, 25247-25256	59
1109	. 2011 ,	1
1108	X-ray Absorption Spectroscopy and Mössbauer Spectroscopy Studies of Superparamagnetic ZnFe ₂ O ₄ Nanoparticles. 2011 , 115, 1627-1634	36
1107	Use of long chain amine as a reducing agent for the synthesis of high quality monodisperse iron(0) nanoparticles. 2011 , 21, 13464	64
1106	NanoSMGT: transfection of exogenous DNA on sex-sorted bovine sperm using nanopolymer. 2011 , 75, 1476-81	27
1105	Cellular distribution and degradation of cobalt ferrite nanoparticles in Balb/3T3 mouse fibroblasts. 2011 , 207, 128-36	76
1104	Superparamagnetic iron oxide nanoparticles: promises for diagnosis and treatment of multiple sclerosis. 2011 , 2, 118-40	124
1103	Recent advances in leishmaniasis treatment. 2011 , 15, e525-32	218
1102	Superparamagnetic iron oxide nanoparticles (SPIONs): development, surface modification and applications in chemotherapy. 2011 , 63, 24-46	1309
1101	Hybrid Magnetic Nanoparticles for Targeted Delivery. 2011 , 575-593	1

1100	Magnetic Nanoparticles for Contrast Enhanced Infrared Thermal Imaging. 2011 ,	
1099	Rod-shaped nanostructures based on superparamagnetic nanocrystals as viscosity sensors in liquid. 2011 , 110, 064907	11
1098	Doxorubicin loaded iron oxide nanoparticles overcome multidrug resistance in cancer in vitro. 2011 , 152, 76-83	227
1097	New generation of chitosan-(acrylic acid)-magnetite nanospheres: synthesis, characterization and cell viability test in vitro. 2011 , 152 Suppl 1, e245-6	3
1096	Temperature and magnetic dual responsive microparticles for DNA separation. 2011 , 81, 286-294	43
1095	Ultrasonic-assisted synthesis of magnetite based MRI contrast agent using cysteine as the biocapping coating. 2011 , 131, 170-177	31
1094	Encapsulation of magnetic CoFe ₂ O ₄ in SiO ₂ nanocomposites using hydroxyapatite as templates: A drug delivery system. 2011 , 131, 485-494	35
1093	Magnetic Shape Anisotropy in Chemically Synthesized Chains of Nickel Nanoparticles. 2011 , 47, 2859-2862	14
1092	Conjugation of manganese ferrite nanoparticles to an anti Sticholysin monoclonal antibody and conjugate applications. 2011 , 387, 118-124	26
1091	Isolation and identification of diadenosine 5',5'''-P ₁ ,P ₄ -tetraphosphate binding proteins using magnetic bio-panning. 2011 , 21, 7175-9	12
1090	Preparation of magnetic nanowires modified with functional groups. 2011 , 11, S103-S108	8
1089	Ferri-liposomes as an MRI-visible drug-delivery system for targeting tumours and their microenvironment. 2011 , 6, 594-602	321
1088	Synthesis, characterization and functionalization of nearly mono-disperse copper ferrite Cu _x Fe _{3-x} O ₄ nanoparticles. 2011 , 21, 6909	20
1087	Superparamagnetic magnetite nanocrystal clusters as potential magnetic carriers for the delivery of platinum anticancer drugs. 2011 , 21, 11142	56
1086	Magnetic Nanoparticles for Biomedicine. 2011 , 363-372	8
1085	Highly hydrated poly(allylamine)/silica magnetic resin. 2011 , 13, 4881-4895	9
1084	The effect of [Fe ³⁺]/[Fe ²⁺] molar ratio and iron salts concentration on the properties of superparamagnetic iron oxide nanoparticles in the water/ethanol/toluene system. 2011 , 13, 5135-5145	59
1083	Biochemical and biomedical applications of multifunctional magnetic nanoparticles: a review. 2011 , 13, 4411-4430	106

1082	Discrepancy between different estimates of the hydrodynamic diameter of polymer-coated iron oxide nanoparticles in solution. 2011 , 13, 6869-6875	6
1081	Synthesis, characterization and a.c. magnetic analysis of magnetite nanoparticles. 2011 , 13, 7013-7020	14
1080	Pegylated single-walled carbon nanotubes with gelable block copolymers. 2011 , 29, 762-771	3
1079	Growth of carbon encapsulated long nickel nanorods on bulk nickel substrate. 2011 , 26, 28-32	2
1078	Recent research progress on the preparation and application of magnetic nanospheres. 2011 , 60, 976-994	48
1077	Poly(ethylene glycol)-Coated Magnetite Nanoparticles: Preparation and Characterization. 2011 , 212, 411-416	4
1076	Poly(ethylene glycol)-Coated Fe ₃ O ₄ Nanoparticles by UV-Thiol-Ene Addition of PEG Dithiol on Vinyl-Functionalized Magnetite Surface. 2011 , 212, 1629-1635	33
1075	In situ Production of Polystyrene Magnetic Nanocomposites through a Batch Suspension Polymerization Process. 2011 , 296, 1107-1118	35
1074	Radioimmunonanoparticles for Cancer Imaging and Therapy. 2011 , 755-780	1
1073	Nanotechnology Approaches to Contrast Enhancement in Optical Imaging and Disease-Targeted Therapy. 2011 , 455-504	
1072	Acetylsalicylic acid loading and release studies of the PMMA-g-polymeric oils/oily acids micro and nanospheres. 2011 , 119, 1610-1618	10
1071	Highly porous, water-soluble, superparamagnetic, and biocompatible magnetite nanocrystal clusters for targeted drug delivery. 2011 , 17, 12802-8	52
1070	Polymeric nanocapsules ultra stable in complex biological media. 2011 , 83, 376-81	37
1069	Dimercaptosuccinic acid-coated magnetite nanoparticles for magnetically guided in vivo delivery of interferon gamma for cancer immunotherapy. 2011 , 32, 2938-52	141
1068	Modeling receptor-mediated endocytosis of polymer-functionalized iron oxide nanoparticles by human macrophages. 2011 , 32, 547-55	124
1067	The Behaviors of Ferro-Magnetic Nano-Particles In and Around Blood Vessels under Applied Magnetic Fields. 2011 , 323, 651-668	140
1066	Enhancement of the efficiency of magnetic targeting for drug delivery: Development and evaluation of magnet system. 2011 , 323, 1919-1924	45
1065	Magnetic birefringence of iron oxyhydroxide nanoparticles stabilised by sucrose. 2011 , 323, 1140-1144	19

1064	Neutron diffraction study and superparamagnetic behavior of ZnFe ₂ O ₄ nanoparticles obtained with different conditions. 2011 , 184, 1608-1613	56
1063	Surface modification of glass plates and silica particles by phospholipid adsorption. 2011 , 353, 281-9	15
1062	Highly temperature responsive core-shell magnetic particles: synthesis, characterization and colloidal properties. 2011 , 360, 556-64	50
1061	Fabrication and characterization of RF nanoantenna on a nanoliter-scale 3D microcontainer. 2011 , 22, 455303	4
1060	Reconfigurable Translocation of Microbeads Using Micro-Engineered Locally Controlled Magnetic Fields. 2011 , 20, 1310-1323	4
1059	Magnetic steering of a distributed ferrofluid spot towards a deep target with minimal spreading. 2011 ,	12
1058	Non-invasive and high-sensitivity scanning detection of magnetic nanoparticles in animals using high-T _c scanning superconducting-quantum-interference-device biosusceptometry. 2011 , 82, 084301	11
1057	Localization of magnetic pills. 2011 , 108, 2252-7	24
1056	Control generating of bacterial magnetic nanoparticle-doxorubicin conjugates by poly-L-glutamic acid surface modification. 2011 , 22, 175102	15
1055	Microgels in Drug Delivery. 2011 , 375-405	7
1054	Biosynthesis and immobilization of biofunctional allophycocyanin. 2011 , 2011, 751452	
1053	Magnetic hydroxyapatite bone substitutes to enhance tissue regeneration: evaluation in vitro using osteoblast-like cells and in vivo in a bone defect. 2012 , 7, e38710	78
1052	A noninvasive method to determine the fate of Fe ₃ O ₄ nanoparticles following intravenous injection using scanning SQUID biosusceptometry. 2012 , 7, e48510	18
1051	Evaluation of brain tumor vessels specific contrast agents for glioblastoma imaging. 2012 , 14, 53-63	59
1050	Use of a polyol liquid collection medium to obtain ultrasmall magnetic nanoparticles by laser pyrolysis. 2012 , 23, 425605	26
1049	Zeta Potential Study Of Barium Hexagonal Ferrites (BaFe ₁₂ O ₁₉) for Drug Release. 2012 , 1376, 60	
1048	Effects of loading procedures of magnetic nanoparticles on the structure and physicochemical properties of cisplatin magnetic liposomes. 2012 , 29, 781-9	6
1047	Synthesis of n-Hexadecylphosphonic Acid-Coated Monodisperse Fe ₃ O ₄ Superparamagnetic Nanoparticles. 2012 , 512-515, 170-173	

1046	Towards Control of Magnetic Fluids in Patients: Directing Therapeutic Nanoparticles to Disease Locations. 2012 , 32, 32-74	64
1045	Approaches for breaking the barriers of drug permeation through transdermal drug delivery. 2012 , 164, 26-40	312
1044	Fe ₃ O ₄ @SiO ₂ Core/Shell Nanoparticles: The Silica Coating Regulations with a Single Core for Different Core Sizes and Shell Thicknesses. 2012 , 24, 4572-4580	372
1043	Polymeric Nanoparticles, Magnetic Nanoparticles and Quantum Dots: Current and Future Perspectives. 2012 , 99-149	
1042	Selectivity and Reactivity of Alkylamine- and Alkanethiolate-Stabilized Pd and PdAg Nanoparticles for Hydrogenation and Isomerization of Allyl Alcohol. 2012 , 2, 2602-2613	44
1041	Controlled release of doxorubicin loaded within magnetic thermo-responsive nanocarriers under magnetic and thermal actuation in a microfluidic channel. 2012 , 6, 10535-45	79
1040	Structural and magnetic properties of mesoporous SiO ₂ nanoparticles impregnated with iron oxide or cobalt-iron oxide nanocrystals. 2012 , 22, 19276	30
1039	Magnetic nanoparticles: design and characterization, toxicity and biocompatibility, pharmaceutical and biomedical applications. 2012 , 112, 5818-78	1504
1038	Nanomolar Determination of Penicillamine by Using a Novel Cobalt/Polyaniline/Carbon Paste Nanocomposite Electrode. 2012 , 24, 2186-2192	6
1037	Field, force and transport analysis for magnetic particle-based gene delivery. 2012 , 13, 589-602	31
1036	Methotrexate-conjugated magnetic nanoparticles for thermochemotherapy and magnetic resonance imaging of tumor. 2012 , 14, 1	18
1035	An intensive study on the magnetic effect of mercapto-functionalized nano-magnetic Fe ₃ O ₄ polymers and their adsorption mechanism for the removal of Hg(II) from aqueous solution. 2012 , 210, 564-574	134
1034	Synthesis of poly(vinyl acetate)-based magnetic polymer microparticles. 2012 , 48, 2050-2069	35
1033	Preparation of Bimetallic Core-shell Nanoparticles with Magnetically Recyclable and High Catalytic Abilities. 2012 , 36, 504-509	3
1032	Intravesical therapy for lower urinary tract symptoms. 2012 , 23, 70-77	12
1031	Nanoparticles as drug delivery systems. 2012 , 64, 1020-37	715
1030	Magnetic targeting and ultrasound mediated drug delivery: benefits, limitations and combination. 2012 , 28, 362-73	43
1029	Hydrogel particles and other novel protein-based methods for food ingredient and nutraceutical delivery systems. 2012 , 412-450	6

1028	Inhibition of metal-induced amyloid aggregation using light-responsive magnetic nanoparticle prochelator conjugates. 2012 , 3, 868-873	46
1027	In vitro cell uptake of biocompatible magnetite/chitosan nanoparticles with high magnetization: a single-step synthesis approach for in-situ-modified magnetite by amino groups of chitosan. 2012 , 23, 843-60	12
1026	Magnetization Reversal in Chemically Synthesized Hexagonal Cobalt Microplatelets. 2012 , 116, 22057-22062	7
1025	Ultra magnetic liposomes for MR imaging, targeting, and hyperthermia. 2012 , 28, 11834-42	153
1024	Boron as a platform for new drug design. 2012 , 7, 1017-27	28
1023	An overview of the analytical characterization of nanostructured drug delivery systems: towards green and sustainable pharmaceuticals: a review. 2012 , 744, 8-22	40
1022	Heat dissipation and magnetic properties of surface-coated Fe ₃ O ₄ nanoparticles for biomedical applications. 2012 , 324, 3437-3442	36
1021	Silica-encapsulated magnetic nanoparticles: enzyme immobilization and cytotoxic study. 2012 , 50, 1063-9	60
1020	Core-shell magnetic chitosan particles functionalized by grafting: Synthesis and characterization. 2012 , 203, 130-141	59
1019	Efficient α -amino-proline-derived cell penetrating peptide-superparamagnetic iron oxide nanoparticle conjugates via aniline-catalyzed oxime chemistry as bimodal imaging nanoagents. 2012 , 48, 5322-4	20
1018	Biocompatibility of crystalline opal nanoparticles. 2012 , 11, 78	10
1017	External magnetic field-induced selective biodistribution of magnetoliposomes in mice. 2012 , 7, 452	27
1016	Evaluation of uptake and transport of ultrasmall superparamagnetic iron oxide nanoparticles by human brain-derived endothelial cells. 2012 , 7, 39-53	40
1015	Stimuli-Responsive Lipid-Based Self-Assembled Systems. 2012 , 257-288	5
1014	Magnetoliposomes and their potential in the intelligent drug-delivery field. 2012 , 3, 1469-82	14
1013	Hybrid composites made of multiwalled carbon nanotubes functionalized with Fe ₃ O ₄ nanoparticles for tissue engineering applications. 2012 , 23, 465102	66
1012	Organic Nanoparticles. 2012 , 4, 197-230	5
1011	Nanocarriers as Nanomedicines: Design Concepts and Recent Advances. 2012 , 4, 337-440	10

1010	Assembly of Multilayer Capsules for Drug Encapsulation and Controlled Release. 2012 , 777-799	2
1009	Enhanced optical limiting in nanosized mixed zinc ferrites. 2012 , 100, 221108	37
1008	Synthesis and characterization of NiFe ₂ O ₄ @Pd magnetically recyclable catalyst for hydrogenation reaction. 2012 , 47, 4316-4321	35
1007	G-quadruplex-forming oligonucleotide conjugated to magnetic nanoparticles: synthesis, characterization, and enzymatic stability assays. 2012 , 23, 382-91	25
1006	A Review on Nanofluids: Preparation, Stability Mechanisms, and Applications. 2012 , 2012, 1-17	481
1005	Elucidating the morphological and structural evolution of iron oxide nanoparticles formed by sodium carbonate in aqueous medium. 2012 , 22, 12498	70
1004	Synthesis and Characterization of Iron-Cobalt Nanoparticles. 2012 , 345, 012030	9
1003	Advancement in multifunctional nanoparticles for the effective treatment of cancer. 2012 , 9, 367-81	73
1002	BaFe ₁₂ O ₁₉ single-particle-chain nanofibers: preparation, characterization, formation principle, and magnetization reversal mechanism. 2012 , 6, 2273-80	68
1001	Superparamagnetic MFe ₂ O ₄ (M = Fe, Co, Mn) Nanoparticles: Tuning the Particle Size and Magnetic Properties through a Novel One-Step Coprecipitation Route. 2012 , 24, 1496-1504	364
1000	Facile preparation of polymeric dimers from amphiphilic patchy particles. 2012 , 33, 933-7	6
999	Influence of particle size on the binding activity of proteins adsorbed onto gold nanoparticles. 2012 , 28, 2736-44	48
998	Fe ₃ O ₄ @mesoporous SBA-15: a robust and magnetically recoverable catalyst for one-pot synthesis of 3,4-dihydropyrimidin-2(1H)-ones via the Biginelli reaction. 2012 , 41, 6173-81	199
997	A multiple emulsion method for loading 5-fluorouracil into a magnetite-loaded nanocapsule: a physicochemical investigation. 2012 , 61, 850-859	37
996	Magnetic Field Dependence of Blocking Temperature in Oleic Acid Functionalized Iron Oxide Nanoparticles. 2012 , 25, 2041-2045	6
995	Effect of magnet implant on iron biodistribution of Fe@C nanoparticles in the mouse. 2012 , 35, 93-100	8
994	Osteochondral tissue engineering approaches for articular cartilage and subchondral bone regeneration. 2012 , 20, 1182-91	101
993	Magnetic nanoparticles: an update of application for drug delivery and possible toxic effects. 2012 , 86, 685-700	131

992	Effect of isotonic solutions and peptide adsorption on zeta potential of porous silicon nanoparticle drug delivery formulations. 2012 , 431, 230-6	71
991	Thermal degradation of magnetite nanoparticles with hydrophilic shell. 2012 , 96, 63-68	23
990	Multifunctional nanoparticles for upconversion luminescence/MR multimodal imaging and magnetically targeted photothermal therapy. 2012 , 33, 2215-22	323
989	Gadolinium loaded nanoparticles in theranostic magnetic resonance imaging. 2012 , 33, 5363-75	143
988	Oleic-acid-coated CoFe ₂ O ₄ nanoparticles synthesized by co-precipitation and hydrothermal synthesis. 2012 , 133, 515-522	47
987	One-step synthesis of manganese ferrite nanoparticles by ultrasonic wave-assisted ball milling technology. 2012 , 134, 921-924	38
986	Preparation and characterization of a novel laminated magnetic hydroxyapatite for application on gene delivery. 2012 , 68, 225-227	15
985	Chemical synthesis, structure and magnetic properties of nanocrystalline Fe-Co alloys. 2012 , 74, 173-175	27
984	PLGA modified Fe ₃ O ₄ nanoclusters for siRNA delivery. 2012 , 81, 102-104	15
983	Synthesis and characterization of magnetite nanoparticles via the chemical co-precipitation method. 2012 , 177, 421-427	461
982	Carbon nanomaterials as drug carriers: Real time drug release investigation. 2012 , 32, 1247-1252	29
981	Rheological behavior of magnetic nanofluids containing spherical nanoparticles of Fe ₃ O ₄ . 2012 , 224, 86-89	43
980	Magnetic characteristics and anticancer activity of a nanocomplex consisting of detonation nanodiamond and doxorubicin. 2012 , 34, 179-185	11
979	Magnetic nanoparticles and their applications in image-guided drug delivery. 2012 , 2, 3-21	17
978	Click chemistry for drug delivery nanosystems. 2012 , 29, 1-34	145
977	Polymer grafting onto magnetite nanoparticles by click reaction. 2012 , 47, 412-419	23
976	Biotinylated chitosan-based SPIONs with potential in blood-contacting applications. 2012 , 14, 1	24
975	Effects of particle-fluid coupling on particle transport and capture in a magnetophoretic microsystem. 2012 , 12, 565-580	41

974	Light-Triggered Self-Assembly of Gold Nanoparticles Based on Photoisomerization of Spirothiopyran. 2013 , 125, 8462-8466	14
973	Synthesis and evaluation of c(RGDyK)-coupled superparamagnetic iron oxide nanoparticles for specific delivery of large amount of doxorubicin to tumor cell. 2013 , 15, 1	1
972	Nanostructures for magnetically triggered release of drugs and biomolecules. 2013 , 18, 459-467	52
971	3D graphene-Fe ₃ O ₄ nanocomposites with high-performance microwave absorption. 2013 , 15, 13038-43	281
970	Measuring nanoparticle flow with the image structure function. 2013 , 13, 2359-63	9
969	Magnetic drug targeting by ferromagnetic microwires implanted within blood vessels. 2013 , 40, 062302	17
968	Protein corona affects the relaxivity and MRI contrast efficiency of magnetic nanoparticles. 2013 , 5, 8656-65	82
967	Synthesis of Neu5Ac- β -galactopyranosyl-functionalized magnetic nanoparticles via click chemistry. 2013 , 69, 7300-7307	5
966	Magnetic properties of prussian blue modified Fe ₃ O ₄ nanocubes. 2013 , 74, 1761-1768	25
965	One Step Chemical Synthesis of Ag-Fe ₃ O ₄ Heterodimer Nanoparticles: Optical, Structure, and Magnetic Properties. 2013 , 49, 4606-4609	2
964	Phase Evolution and Growth of Iron Oxide Nanoparticles: Effect of Hydrazine Addition During Sonication. 2013 , 13, 3637-3644	41
963	Preparation and characterization of novel magnetic nano-in-microparticles for site-specific pulmonary drug delivery. 2013 , 10, 3574-81	34
962	A new approach to the control of biochemical reactions in a magnetic nanosuspension using a low-frequency magnetic field. 2013 , 39, 240-243	20
961	The cytotoxicity evaluation of magnetic iron oxide nanoparticles on human aortic endothelial cells. 2013 , 8, 215	37
960	Conceptual design of integrated microfluidic system for magnetic cell separation, electroporation, and transfection. 2013 , 29, 562-7	13
959	A mixture theory model of fluid and solute transport in the microvasculature of normal and malignant tissues. I. Theory. 2013 , 66, 1179-207	18
958	PEG-functionalized iron oxide nanoclusters loaded with chlorin e6 for targeted, NIR light induced, photodynamic therapy. 2013 , 34, 9160-70	163
957	MAGNETO-OPTICAL MEASUREMENTS OF COLLECTIVE SPIN DYNAMICS OF TWO-DIMENSIONAL ARRAYS OF FERROMAGNETIC NANOELEMENTS. 2013 , 03, 1330001	19

956	Intravesical drug delivery for dysfunctional bladder. 2013 , 20, 552-62	32
955	Label-free fluorescent detection of thrombin activity based on a recombinant enhanced green fluorescence protein and nickel ions immobilized nitrilotriacetic acid-coated magnetic nanoparticles. 2013 , 116, 468-73	11
954	Thermal potentiation of chemotherapy by magnetic nanoparticles. 2013 , 8, 1689-707	97
953	Engineering of Polysaccharides via Nanotechnology. 2013 , 87-134	2
952	Multifunctional nanoparticles for targeted delivery of immune activating and cancer therapeutic agents. 2013 , 172, 1020-34	174
951	A room-temperature alternating current susceptometer--data analysis, calibration, and test. 2013 , 84, 125105	4
950	Chemical synthesis of magnetic nanocrystals: Recent progress. 2013 , 22, 107503	11
949	Synthesis, characterization and mechanistic insights of mycogenic iron oxide nanoparticles. 2013 , 15, 1	21
948	Basics of magnetic nanoparticles for their application in the field of magnetic fluid hyperthermia. 2013 , 5,	22
947	Peroxidase-like activity of amino-functionalized magnetic nanoparticles and their applications in immunoassay. 2013 , 405, 291-5	28
946	Tuning the magnetic properties of nanoparticles. 2013 , 14, 15977-6009	497
945	Stimuli-Responsive Smart Organic Hybrid Metal Nanoparticles. 2013 , 293-333	2
944	Magnetic nanotherapeutics of Guerin carcinoma. 2013 ,	1
943	Multifunctional PEG encapsulated FeO@silver hybrid nanoparticles: antibacterial activity, cell imaging and combined photothermo/chemo-therapy. 2013 , 1, 6225-6234	47
942	SPIO nanoparticle-stabilized PAA-F127 thermosensitive nanobubbles with MR/US dual-modality imaging and HIFU-triggered drug release for magnetically guided in vivo tumor therapy. 2013 , 172, 118-127	71
941	Numerical simulation of an adaptive magnetic field source in magnetic drug targeted transport. 2013 ,	2
940	On the parallel simulation of magnetic targeting of nanoparticles in capillaries. 2013 ,	
939	Size-dependent magnetophoresis of native single super-paramagnetic nanoparticles in a microchip. 2013 , 49, 7298-300	4

938	Porous carbon protected magnetite and silver hybrid nanoparticles: morphological control, recyclable catalysts, and multicolor cell imaging. 2013 , 5, 9446-53	51
937	Spray-dried magnetic chitosan/Fe ₃ O ₄ /halloysite nanotubes/ofloxacin microspheres for sustained release of ofloxacin. 2013 , 3, 23423	21
936	Can controversial nanotechnology promise drug delivery?. 2013 , 113, 1686-735	160
935	Magnetic microporous polymer nanoparticles. 2013 , 4, 1425-1429	24
934	Magnetic Immunoassays. 2013 , 29-53	1
933	Biodistribution and In Vivo Anticancer Effects of Taxol Loaded Magnetic Nanospheres. 2013 , 49, 353-358	3
932	From quenched to unquenched orbital magnetic moment on metallic@oxide nanoparticles: dc magnetic properties and electronic correlation. 2013 , 15, 1	7
931	Size-dependent motion of bio-functionalized magnetic nanoparticle clusters under a rotating magnetic field. 2013 , 15, 1	5
930	A study on structural and magnetic properties of Ni-substituted magnetite nanoparticles. 2013 , 577, 376-381	27
929	Multifunctional Fe ₃ O ₄ @C@Ag hybrid nanoparticles: Aqueous solution preparation, characterization and photocatalytic activity. 2013 , 48, 2415-2419	26
928	□Maghemite-silica nanocomposite: A green catalyst for diverse aromatic N-heterocycles. 2013 , 41, 146-152	11
927	Targeting and delivery of platinum-based anticancer drugs. 2013 , 42, 202-24	481
926	Ethylene glycol assisted hydrothermal synthesis of strontium hexaferrite nanoparticles as precursor of magnetic fluid. 2013 , 562, 211-218	26
925	Introduction. 2013 , 1-32	2
924	Types of Nanomaterials and Corresponding Methods of Synthesis. 2013 , 33-82	9
923	Conclusions. 2013 , 409-451	
922	Design and construction of polymerized-glucose coated Fe ₃ O ₄ magnetic nanoparticles for delivery of aspirin. 2013 , 236, 157-163	42
921	Dual and multi-stimuli responsive polymeric nanoparticles for programmed site-specific drug delivery. 2013 , 34, 3647-57	999

920	One-pot solvothermal synthesis of Fe ₃ O ₄ @PEI composite and its further modification with Au nanoparticles. 2013 , 15, 1	27
919	Cellular internalization of dissolved cobalt ions from ingested CoFe ₂ O ₄ nanoparticles: in vivo experimental evidence. 2013 , 47, 5400-8	39
918	A platinum anticancer theranostic agent with magnetic targeting potential derived from maghemite nanoparticles. 2013 , 4, 2605	42
917	Membrane mimetic surface functionalization of nanoparticles: methods and applications. 2013 , 197-198, 68-84	53
916	Bolaamphiphilic vesicles encapsulating iron oxide nanoparticles: new vehicles for magnetically targeted drug delivery. 2013 , 450, 241-9	26
915	A PCR based magnetic assembled sensor for ultrasensitive DNA detection. 2013 , 49, 5369-71	25
914	In vivo bio-safety evaluations and diagnostic/therapeutic applications of chemically designed mesoporous silica nanoparticles. 2013 , 25, 3144-76	554
913	Physical stability, biocompatibility and potential use of hybrid iron oxide-gold nanoparticles as drug carriers. 2013 , 15, 1	12
912	Pulsed magnetic field improves the transport of iron oxide nanoparticles through cell barriers. 2013 , 7, 2161-71	39
911	Investigation of magnetically enhanced swelling behaviour of superparamagnetic starch nanoparticles. 2013 , 36, 15-24	21
910	Synthesis and characterization of a pH-sensitive conjugate of isoniazid with Fe ₃ O ₄ @SiO ₂ magnetic nanoparticles. 2013 , 23, 4692-5	11
909	Light-triggered self-assembly of gold nanoparticles based on photoisomerization of spirothiopyran. 2013 , 52, 8304-8	74
908	CHAPTER 1: From Drug Dosage Forms to Intelligent Drug-delivery Systems: a Change of Paradigm. 2013 , 1-32	4
907	Polymeric theranostics: using polymer-based systems for simultaneous imaging and therapy. 2013 , 1, 3002-3025	109
906	Mesoporous silica nanoparticles for the design of smart delivery nanodevices. 2013 , 1, 114-134	199
905	Effect of γ -rays irradiation on Mn ₂ Ni ferrites: Structure, magnetic properties and positron annihilation studies. 2013 , 304, 72-79	52
904	Plant-Derived Natural Products for the Treatment of Leishmaniasis. 2013 , 381-429	4
903	Low-dimensional nanoparticle clustering in polymer micelles and their transverse relaxivity rates. 2013 , 7, 5824-33	42

902	Nanoengineering of doxorubicin delivery systems with functionalized maghemite nanoparticles. 2013 , 111, 88-96	26
901	Effect of the nanoparticle synthesis method on dendronized iron oxides as MRI contrast agents. 2013 , 42, 2146-57	64
900	Epitaxial growth of γ -Fe ₂ O ₃ thin films on MgO substrates by pulsed laser deposition and their properties. 2013 , 61, 548-557	26
899	Iron carbide nanoparticles growth in room temperature ionic liquids [C _n -MIM][BF ₄] (n = 12, 16). 2013 , 15, 1	7
898	Statistical investigation of efficiency of the nanomagnetic particle steering in blood vessels. 2013 ,	3
897	Size-controlled synthesis and characterization of CoPt nanoparticles using protein shells. 2013 , 1, 1453-1460	14
896	Magnetic Hydrogels and Their Potential Biomedical Applications. 2013 , 23, 660-672	431
895	Coupled particle-fluid transport and magnetic separation in microfluidic systems with passive magnetic functionality. 2013 , 46, 125002	26
894	CFD Study on Wall/Nanoparticle Interaction in Nanofluids Convective Heat Transfer. 2013 , 2013, 1-7	2
893	Bleomycin loaded magnetite nanoparticles functionalized by polyacrylic acid as a new antitumoral drug delivery system. 2013 , 2013, 462589	11
892	NMR-D study of the local spin dynamics and magnetic anisotropy in different nearly monodispersed ferrite nanoparticles. 2013 , 25, 066008	11
891	Use of magnetic folate-dextran-retinoic acid micelles for dual targeting of doxorubicin in breast cancer. 2013 , 2013, 680712	26
890	Fluorescent Magnetic Bioprobes by Surface Modification of Magnetite Nanoparticles. 2013 , 6, 3213-3225	22
889	Synthesis, characterization and mechanistic insights of mycogenic iron oxide nanoparticles. 2013 , 337-348	6
888	Simulation of the magnetization dynamics of diluted ferrofluids in medical applications. 2013 , 58, 601-9	17
887	Parallel simulation of magnetic targeting of nano-carriers in capillary using OpenMP and MPI. 2013 ,	
886	Continuous production of iron-based nanocrystals by laser pyrolysis. Effect of operating variables on size, composition and magnetic response. 2013 , 24, 325603	13
885	D-amino acid oxidase-nanoparticle system: a potential novel approach for cancer enzymatic therapy. 2013 , 8, 1797-806	26

884 Advances in Smart Wearable Systems. **2013**, 167-200

883 Nanoparticles in Drug Delivery Systems. **2013**, 1-22

2

882 Tuning Magnetic Property and Autophagic Response for Self-Assembled Ni₄₀ Alloy Nanocrystals. **2013**, 23, 5930-5940

40

881 Release behavior and toxicity profiles towards leukemia (WEHI-3B) cell lines of 6-mercaptopurine-PEG-coated magnetite nanoparticles delivery system. **2014**, 2014, 972501

4

880 In vitro sustained release study of gallic acid coated with magnetite-PEG and magnetite-PVA for drug delivery system. **2014**, 2014, 416354

32

879 Preparation of biodegradable iron oxide nanoparticles with gelatin for magnetic resonance imaging. **2014**, 34, 045-055

15

878 FABRICATION AND IN VITRO EVALUATION OF FOLATE-MODIFIED IRON FERRITE NANOPARTICLES WITH HIGH DOXORUBICIN LOADING FOR RECEPTORS-MAGNETIC-GUIDED DRUG DELIVERY. **2014**, 09, 1450021

7

877 Magnetic Nanoparticles as Drug Carriers: Review. **2014**, 807, 1-12

2

876 Bio-Reductive Synthesis and Characterization of Plant Protein Coated Magnetite Nanoparticles. **2014**, 7, 69-86

12

875 Magnetic therapeutic delivery using navigable agents. **2014**, 5, 189-204

16

874 Preparation of magnetically responsive albumin nanospheres and in vitro drug release studies. **2014**, 42, 18-26

10

873 Preparation of a magnetic chitosan composite adsorbent by ammonia fumigation. **2014**, 131, n/a-n/a

872 Combination of magnetic field and surface functionalization for reaching synergistic effects in cellular labeling by magnetic core-shell nanospheres. **2014**, 2, 1750-1760

14

871 Preparation and characterizations of superparamagnetic iron oxide-embedded poly(2-hydroxyethyl methacrylate) nanocarriers. **2014**, 131, n/a-n/a

5

870 High frequency study of core-shell reusable CoFe₂O₄/ZnO nanospheres. **2014**, 115, 17B515

1

869 "Clicking" Porphyrins to Magnetic Nanoparticles for Photodynamic Therapy. **2014**, 79, 90-98

22

868 Polymeric nanoparticles for therapy and imaging. **2014**, 25, 1216-1225

25

867 Medical Applications of Magnetic Nanoparticles. **2014**, 6, 217-258

12

866	Smart Drug Delivery Systems. 2014 , 265-316	1
865	Advanced composite materials based on hydrogels and ferrites for potential biomedical applications. 2014 , 455, 185-194	14
864	pH-responsive controlled release of epirubicin from Fe@Si-PW hybrid nanoparticles. 2014 , 39, 340-3	7
863	Influence of the physical and chemical properties of magnetic nanoparticles on their performance in a chemiluminescence immunoassay. 2014 , 47, 220-6	7
862	Co-encapsulation of human serum albumin and superparamagnetic iron oxide in PLGA nanoparticles: part I. Effect of process variables on the mean size. 2014 , 31, 147-55	15
861	Regulating the thermal response of PNIPAM hydrogels by controlling the adsorption of magnetite nanoparticles. 2014 , 114, 585-590	20
860	Tailoring magnetic PLGA nanoparticles suitable for doxorubicin delivery. 2014 , 16, 1	22
859	Enzymatic biosensors based on the use of metal oxide nanoparticles. 2014 , 181, 1-22	94
858	Doxorubicin-conjugated core-shell magnetite nanoparticles as dual-targeting carriers for anticancer drug delivery. 2014 , 117, 406-13	72
857	Facile and controlled synthesis of FeCo nanoparticles via a hydrothermal method. 2014 , 25, 1965-1969	7
856	An electrochemical immunosensor for digoxin using core-shell gold coated magnetic nanoparticles as labels. 2014 , 41, 1659-68	60
855	Smart magnetic poly(N-isopropylacrylamide) to control the release of bio-active molecules. 2014 , 25, 2365-71	27
854	Study of maghemite nanoparticles as prepared and coated with DMSA using Mössbauer spectroscopy with a high velocity resolution. 2014 , 226, 123-130	2
853	Mechanochemical synthesis of maghemite/silica nanocomposites: advanced materials for aqueous room-temperature catalysis. 2014 , 7, 1876-80	23
852	Magnetic iron oxide-fluorescent carbon dots integrated nanoparticles for dual-modal imaging, near-infrared light-responsive drug carrier and photothermal therapy. 2014 , 2, 915-923	114
851	Magnetic nanoparticles as contrast agents in biomedical imaging: recent advances in iron- and manganese-based magnetic nanoparticles. 2014 , 46, 142-54	56
850	Smart drug delivery systems: from fundamentals to the clinic. 2014 , 50, 7743-65	271
849	N-Methylimidazolium modified magnetic particles-assisted highly sensitive Escherichia coli detection based on polymerase chain reaction and capillary electrophoresis. 2014 , 827, 47-53	12

848	Dextran-functionalized magnetic fluid mediating magnetohyperthermia for treatment of Ehrlich-solid-tumor-bearing mice: toxicological and histopathological evaluations. 2014 , 35, 3391-403	7
847	Effect of solvent composition on the structural and magnetic properties of MnZn ferrite nanoparticles obtained by hydrothermal synthesis. 2014 , 17, 233-244	11
846	Particle Transport in Therapeutic Magnetic Fields. 2014 , 46, 407-440	37
845	Preparing substrates encoding cell patterning and localized intracellular magnetic particle stimulus for high-throughput experimentation. 2014 , 120, 201-14	2
844	Synthesis and characterization of nanoparticles, consisting of a gadolinium paramagnetic core and a mesoporous silica shell, for controlled delivery of hydrophobic drugs. 2014 , 16, 1	5
843	Fabrication and characterization of zinc oxide nanoparticle coated magnetic iron oxide: Effect of S-layers adsorption on surface of oxide. 2014 , 20, 3033-3036	17
842	Impact of Serum Proteins on MRI Contrast Agents: Cellular Binding and T relaxation. 2014 , 4, 31735-31744	14
841	Synthesis and characterization of core-shell Au Fe oxide nanocomposites and their application for detecting immunological interaction. 2014 , 33, 74-9	4
840	Template-assisted nano-patterning of magnetic core-shell particles in gradient fields. 2014 , 16, 13306-17	23
839	The influence of blood on targeted microbubbles. 2014 , 11, 20140622	13
838	Diazo transfer at polydopamine: A new way to functionalization. 2014 , 5, 6593-6599	17
837	Redox-mediated dissolution of paramagnetic nanolids to achieve a smart theranostic system. 2014 , 6, 5270-8	28
836	Advanced multiresponsive comploids: from design to possible applications. 2014 , 6, 8726-35	17
835	The chemically directed assembly of nanoparticle clusters from superparamagnetic iron-oxide nanoparticles. 2014 , 4, 13167	21
834	Magnetic nanoparticle-based therapeutic agents for thermo-chemotherapy treatment of cancer. 2014 , 6, 11553-73	386
833	A Novel Electromagnetic Actuation System for Magnetic Nanoparticle Guidance in Blood Vessels. 2014 , 50, 1-12	36
832	Particle geometry, charge, and wettability. 2014 , 443-467	2
831	Calcium phosphate nanoparticles primarily induce cell necrosis through lysosomal rupture: the origination of material cytotoxicity. 2014 , 2, 3480-3489	45

830	Nano/sub-micron crystallization of Fe ₇₀ Co ₃₀ alloy by thermo-mechanical process to improve magnetic properties. 2014 , 190, 96-103	25
829	Cellulose-based drug carriers for cancer therapy: Cytotoxic evaluation in cancer and healthy cells. 2014 , 132, 432-435	20
828	Platinum dendritic nanoparticles with magnetic behavior. 2014 , 116, 033911	12
827	Synthesis of cobalt ferrite (CoFe ₂ O ₄) nanoparticles using combustion, coprecipitation, and precipitation methods: A comparison study of size, structural, and magnetic properties. 2014 , 371, 43-48	275
826	A comparative study of Fe ₃ O ₄ nanoparticles modified with different silane compounds. 2014 , 318, 297-304	28
825	Non-isothermal kinetic analysis on the phase transformations of Fe ₇₀ Co ₃₀ alloy. 2014 , 596, 89-97	23
824	Synthesis of iron oxide coated fluoridated HAp/Ln ³⁺ (Ln = Eu or Tb) nanocomposites for biological applications. 2014 , 50, 14010-2	7
823	Mesoporous Fe ₃ O ₄ /hydroxyapatite composite for targeted drug delivery. 2014 , 59, 65-68	34
822	Development of phosphonate-terminated magnetic mesoporous silica nanoparticles for pH-controlled release of doxorubicin and improved tumor accumulation. 2014 , 9, 317-323	18
821	Physicochemical and biological properties of iron and zinc ions co-doped nanocrystalline hydroxyapatite, synthesized by ultrasonication. 2014 , 40, 16707-16717	35
820	Subcellular localization of the magnetosome protein MamC in the marine magnetotactic bacterium Magnetococcus marinus strain MC-1 using immunoelectron microscopy. 2014 , 196, 481-8	13
819	Electrospun nanofibers-mediated on-demand drug release. 2014 , 3, 1721-32	74
818	Tailor-made nanocontainers for combined magnetic-field-induced release and MRI. 2014 , 14, 1205-14	11
817	Magnetic scaffolds of polycaprolactone with functionalized magnetite nanoparticles: physicochemical, mechanical, and biological properties effective for bone regeneration. 2014 , 4, 17325-17336	77
816	Doxorubicin-loaded magnetic silk fibroin nanoparticles for targeted therapy of multidrug-resistant cancer. 2014 , 26, 7393-8	181
815	The potential of magneto-electric nanocarriers for drug delivery. 2014 , 11, 1635-46	73
814	Monodisperse magnetofluorescent nanoplatforms for local heating and temperature sensing. 2014 , 6, 13463-9	12
813	A catalase-magnetic switch for cell proliferation. 2014 , 4, 15077-15080	7

812	Synthesis, Characterization and Biocompatibility of Potassium Ferrite Nanoparticles. 2014 , 30, 30-36	11
811	Configurations and control of magnetic fields for manipulating magnetic particles in microfluidic applications: magnet systems and manipulation mechanisms. 2014 , 14, 2762-77	81
810	Nontoxic impact of PEG-coated gold nanospheres on functional pulmonary surfactant-secreting alveolar type II cells. 2014 , 8, 813-23	19
809	Therapeutic applications of hydrogels in oral drug delivery. 2014 , 11, 901-15	197
808	Drug delivery/imaging multifunctionality of mesoporous silica-based composite nanostructures. 2014 , 11, 917-30	56
807	Magnetic metal-organic frameworks: γ -Fe ₂ O ₃ @MOFs via confined in situ pyrolysis method for drug delivery. 2014 , 10, 2927-36	148
806	Iron Oxide Nanoparticles Prepared by Modified Co-Precipitation Method. 2014 , 50, 1-4	13
805	Biocompatible Single-Chain Polymeric Nanoparticles via Organo-Catalyzed Ring-Opening Polymerization.. 2014 , 3, 524-528	47
804	Time-Domain Study of Magnetization Dynamics in Magnetic Thin Films and Micro- and Nanostructures. 2014 , 1-108	31
803	Spiropyran-modified gold nanoparticles: reversible size control of aggregates by UV and visible light irradiations. 2014 , 6, 7554-62	64
802	Progress in electrochemical synthesis of magnetic iron oxide nanoparticles. 2014 , 368, 207-229	179
801	Facile and high-efficient immobilization of histidine-tagged multimeric protein G on magnetic nanoparticles. 2014 , 9, 664	8
800	Nanomedicines for cancer therapy: state-of-the-art and limitations to pre-clinical studies that hinder future developments. 2014 , 2, 69	96
799	Characterization and Comparison of Mesoporous Silica Particles for Optimized Drug Delivery. 2014 , 4, 2	73
798	Ceramics for Gene Transfection. 2014 , 383-419	
797	Triggering Mechanisms of Thermosensitive Nanoparticles Under Hyperthermia Condition. 2015 , 104, 2414-28	16
796	Metal-containing systems based on chitosan and a collagen-chitosan composite. 2015 , 64, 1663-1670	9
795	Quantitative model selection for enhanced magnetic nanoparticle imaging in magnetorelaxometry. 2015 , 42, 6853-62	10

794	Thermal magnetic noise spectra of nanoparticle ensembles. 2015 , 107, 222401	12
793	The diagnostic value of iron oxide nanoparticles for imaging of myocardial inflammation--quo vadis?. 2015 , 17, 54	22
792	A Pseudo-Model Strategy Combining Experiment and Model to Investigate the Targeting Efficiency of Injected Magnetic Nanoparticles as Therapeutics Carriers. 2015 , 17, 1511-1517	
791	Biomedical Applications of Magnetically Functionalized Organic/Inorganic Hybrid Nanofibers. 2015 , 16, 13661-77	36
790	Growth factor choice is critical for successful functionalization of nanoparticles. 2015 , 9, 305	14
789	Polysaccharide-Coated Magnetic Nanoparticles for Imaging and Gene Therapy. 2015 , 2015, 959175	64
788	High loading of doxorubicin into styrene-terminated porous silicon nanoparticles via Btacking for cancer treatments in vitro. 2015 , 5, 44660-44665	18
787	Desulfurization of immobilized sulfur-oxidizing bacteria, Thiakalivibrio versutus, by magnetic nanaoparticles under haloalkaliphilic conditions. 2015 , 37, 1631-5	18
786	Bioactive magnetic near Infra-Red fluorescent core-shell iron oxide/human serum albumin nanoparticles for controlled release of growth factors for augmentation of human mesenchymal stem cell growth and differentiation. 2015 , 13, 34	35
785	Statistical optimization of effective parameters on saturation magnetization of nanomagnetite particles. 2015 , 393, 30-35	16
784	Designed preparation of polyacrylic acid/calcium carbonate nanoparticles with high doxorubicin payload for liver cancer chemotherapy. 2015 , 17, 4768-4773	28
783	Atomic layer deposition of superparamagnetic and ferrimagnetic magnetite thin films. 2015 , 117, 17C743	14
782	Application of traditional Chinese medicine preparation in targeting drug delivery system. 2015 , 22, 258-65	17
781	Nanosystems: the use of nanoalloys, metallic, bimetallic, and magnetic nanoparticles in biomedical applications. 2015 , 17, 27981-95	136
780	Phenytoin carried by silica core iron oxide nanoparticles reduces the expression of pharmacoresistant seizures in rats. 2015 , 10, 3563-77	10
779	Core-shell-corona doxorubicin-loaded superparamagnetic Fe ₃ O ₄ nanoparticles for cancer theranostics. 2015 , 136, 1073-80	48
778	Magnetic targeting of microbubbles against physiologically relevant flow conditions. 2015 , 5, 20150001	22
777	Synthesis of paramagnetic polymers based on polyethyleneimine (PEI). 2015 , 5, 92207-92211	9

776	Affinity Based Laccase Immobilization on Modified Magnetic Nanoparticles: Biosensing Platform for the Monitoring of Phenolic Compounds. 2015 , 64, 260-266	12
775	Analysis of Driven Nanorod Transport Through a Biopolymer Matrix. 2015 , 380, 295-298	8
774	Magnetic hyaluronate hydrogels: preparation and characterization. 2015 , 380, 175-180	16
773	Analysis of the Dynamics of Magnetic Core-shell Nanoparticles and Self-Assembly of Crystalline Superstructures in Gradient Fields. 2015 , 119, 5714-5726	21
772	Target-specific near-IR induced drug release and photothermal therapy with accumulated Au/Ag hollow nanoshells on pulmonary cancer cell membranes. 2015 , 45, 81-92	62
771	The use of nanoparticles as a promising therapeutic approach in cancer immunotherapy. 2016 , 44, 1051-61	45
770	Synthesis of air stable FeCo alloy nanocrystallite by proteic sol-gel method using a rotary oven. 2015 , 622, 408-417	34
769	Preparation of Magnetic pH-Sensitive Film With Alginate Base for Colon Specific Drug Delivery. 2015 , 64, 214-219	11
768	Factors Influencing the Formation of Single-Chain Polymeric Nanoparticles Prepared via Ring-Opening Polymerization. 2015 , 48, 1371-1379	31
767	Preparation of Functional Janus Particles with Response to Magnetic Force. 2015 , 54, 2690-2696	9
766	Stable monodisperse nanomagnetic colloidal suspensions: An overview. 2015 , 133, 388-411	69
765	Synthesis and Characterization of Polyhydroxybutyrate Coated Magnetic Nanoparticles: Toxicity Analyses on Different Cell Lines. 2015 , 45, 700-708	13
764	Untethered magnetic millirobot for targeted drug delivery. 2015 , 17, 9962	24
763	Orthopedic nanoceramics. 2015 , 49-75	
762	Magnetic nanoparticles: In vivo cancer diagnosis and therapy. 2015 , 493, 313-27	129
761	Supramolecular nanoscale assemblies for cancer diagnosis and therapy. 2015 , 213, 152-167	22
760	POZylation: a new approach to enhance nanoparticle diffusion through mucosal barriers. 2015 , 7, 13671-9	52
759	Technique to optimize magnetic response of gelatin coated magnetic nanoparticles. 2015 , 26, 202	8

758	Emerging translational research on magnetic nanoparticles for regenerative medicine. 2015 , 44, 6306-29	70
757	One step grafting of iron phthalocyanine containing flexible chains on Fe ₃ O ₄ nanoparticles towards high performance polymer magnetic composites. 2015 , 385, 368-376	13
756	A systematic study of maghemite/PMMA nano-fibrous composite via an electrospinning process: Synthesis and characterization. 2015 , 70, 179-187	15
755	Synthesis and application of glycoconjugate-functionalized magnetic nanoparticles as potent anti-adhesion agents for reducing enterotoxigenic Escherichia coli infections. 2015 , 7, 8326-31	8
754	Recent progress on magnetic iron oxide nanoparticles: synthesis, surface functional strategies and biomedical applications. 2015 , 16, 023501	905
753	Iron oxide nanoparticles for magnetically-guided and magnetically-responsive drug delivery. 2015 , 16, 8070-101	276
752	Lorentz microscopy sheds light on the role of dipolar interactions in magnetic hyperthermia. 2015 , 7, 7717-25	15
751	A Review of Clinical Translation of Inorganic Nanoparticles. 2015 , 17, 1041-54	310
750	Sidewall Functionalization of Carbon Nanotubes as a Method of Controlling Structural Transformations of the Magnetically Triggered Nanocontainer: A Molecular Dynamics Study. 2015 , 119, 8373-8381	4
749	High Specific Absorption Rate and Transverse Relaxivity Effects in Manganese Ferrite Nanoparticles Obtained by an Electrochemical Route. 2015 , 119, 6828-6834	45
748	Noble Metal Nanomaterials: Synthetic Routes, Fundamental Properties, and Promising Applications. 2015 , 66, 131-211	12
747	Exchange bias in ferrite hollow nanoparticles originated by complex internal magnetic structure. 2015 , 2, 105001	7
746	Polyamide Nanogels from Generally Recognized as Safe Components and Their Toxicity in Mouse Preimplantation Embryos. 2015 , 16, 3491-8	7
745	Enhanced stability and catalytic activity of immobilized α -amylase on modified Fe ₃ O ₄ nanoparticles for potential application in food industries. 2015 , 17, 1	31
744	Lactoferrin conjugated iron oxide nanoparticles for targeting brain glioma cells in magnetic particle imaging. 2015 , 7, 16890-8	80
743	Triggering the apoptosis of targeted human renal cancer cells by the vibration of anisotropic magnetic particles attached to the cell membrane. 2015 , 7, 15904-14	52
742	Magnetic nanoparticle-conjugated polymeric micelles for combined hyperthermia and chemotherapy. 2015 , 7, 16470-80	51
741	Spatial control of chromosomal location in a live cell with functionalized magnetic particles. 2015 , 7, 19110-7	2

- 740 Capture Efficiency of Biocompatible Magnetic Nanoparticles in Arterial Flow: A Computer Simulation for Magnetic Drug Targeting. **2015**, 10, 426 42
- 739 Synergistic cytotoxicity of the poly (ADP-ribose) polymerase inhibitor ABT-888 and temozolomide in dual-drug targeted magnetic nanoparticles. **2015**, 35, 1430-41 8
- 738 Super-Paramagnetic Nanoparticles with Spinel Structure: A Review of Synthesis and Biomedical Applications. **2015**, 241, 139-176 18
- 737 Biotechnological promises of Fe-filled CNTs for cell shepherding and magnetic fluid hyperthermia applications. **2015**, 7, 20474-88 16
- 736 Interaction study on bovine serum albumin physically binding to silver nanoparticles: Evolution from discrete conjugates to protein coronas. **2015**, 359, 82-88 27
- 735 Magnetic nanoparticles: Advantages of using, methods for preparation, characterization, application in pharmacy. **2015**, 5, 256-280 17
- 734 Magnetic control of AMB-1 magnetotactic bacteria for micromanipulation. **2015**, 1 1
- 733 Superparamagnetic versus blocked states in aggregates of Fe(3-x)O_n nanoparticles studied by MFM. **2015**, 7, 17764-70 18
- 732 Uptake of ferromagnetic carbon-encapsulated metal nanoparticles in endothelial cells: influence of shear stress and endothelial activation. **2015**, 10, 3537-46 5
- 731 Fluorescent Copolymer-Based Prodrug for pH-Triggered Intracellular Release of DOX. **2015**, 16, 3624-31 39
- 730 Colloidal magnetic nanocrystal clusters: variable length-scale interaction mechanisms, synergetic functionalities and technological advantages. **2015**, 4, 41
- 729 Facile synthesis of multifunctional Ag/Fe₃O₄-CS nanocomposites for antibacterial and hyperthermic applications. **2015**, 15, 1482-1487 16
- 728 Magnetic drug carriers: bright insights from light-responsive magnetic liposomes. **2015**, 10, 2797-9 6
- 727 The emerging applications of magnetic nanovectors in nanomedicine. **2015**, 4, 285-304 1
- 726 Modified Polysaccharides for Drug Delivery. **2015**, 1805-1835 7
- 725 Magnetic nanoparticles for magnetic drug targeting. **2015**, 60, 465-75 13
- 724 Preparation and characterization of cetyltrimethylammonium bromide (CTAB)-stabilized Fe₃O₄ nanoparticles for electrochemistry detection of citric acid. **2015**, 755, 158-166 30
- 723 Amino-substituted spirothiopyran as an initiator for self-assembly of gold nanoparticles. **2015**, 5, 77572-77580 2

722	Macroscopic and microscopic biodistribution of intravenously administered iron oxide nanoparticles. 2015 ,	1
721	Nanoscale theranostics for physical stimulus-responsive cancer therapies. 2015 , 73, 214-30	154
720	Macromolecular and Inorganic Nanomaterials Scaffolds for Carbon Monoxide Delivery: Recent Developments and Future Trends. 2015 , 1, 895-913	62
719	Gold nanoparticles with high densities of small protuberances on nanocluster cores with strong NIR extinction. 2015 , 5, 104674-104687	6
718	Nanoparticles in Biomedical Applications. 2015 , 177-210	7
717	Nanoparticle hardness controls the internalization pathway for drug delivery. 2015 , 7, 2758-69	79
716	Controlled direction of electrical and mechanical properties in nickel tethered graphene polyimide nanocomposites using magnetic field. 2015 , 84, 375-382	32
715	A quantitative study of particle size effects in the magnetorelaxometry of magnetic nanoparticles using atomic magnetometry. 2015 , 379, 137-150	15
714	Water-dispersible ascorbic-acid-coated magnetite nanoparticles for contrast enhancement in MRI. 2015 , 5, 435-441	58
713	Acute exposure to ZnO nanoparticles induces autophagic immune cell death. 2015 , 9, 737-48	81
712	Functional biocompatible magnetite-cellulose nanocomposite fibrous networks: Characterization by fourier transformed infrared spectroscopy, X-ray powder diffraction and field emission scanning electron microscopy analysis. 2015 , 136 Pt C, 1450-3	19
711	Study on novel, superparamagnetic and biocompatible PEG/KFeO ₂ nanocomposite. 2015 , 13, 23-32	4
710	Magnetic, long persistent luminescent and mesoporous nanoparticles as trackable transport drug carriers. 2015 , 3, 635-641	43
709	Manipulation and Orientation of Zeolite L by Using a Magnetic Field. 2015 , 80, 62-67	11
708	Applications of exchange coupled bi-magnetic hard/soft and soft/hard magnetic core/shell nanoparticles. 2015 , 553, 1-32	310
707	A novel scheme for nanoparticle steering in blood vessels using a functionalized magnetic field. 2015 , 62, 303-13	36
706	Computational analysis of enhanced magnetic bioseparation in microfluidic systems with flow-invasive magnetic elements. 2014 , 4, 5299	29
705	Experimental and theoretical investigations in stimuli responsive dendrimer-based assemblies. 2015 , 7, 3817-37	56

704	Fabrication and development of magnetic particles for gene therapy. 2016 , 215-230	3
703	Magnetically-Responsive Hydrogels for Modulation of Chondrogenic Commitment of Human Adipose-Derived Stem Cells. 2016 , 8,	29
702	Thin films for tissue engineering applications. 2016 , 167-195	7
701	Surface Modified Multifunctional and Stimuli Responsive Nanoparticles for Drug Targeting: Current Status and Uses. 2016 , 17,	108
700	Silk Fiber as the Support and Reductant for the Facile Synthesis of Ag-Fe ₃ O ₄ Nanocomposites and Its Antibacterial Properties. 2016 , 9,	10
699	Enhanced delivery of epirubicin by polyoxometalate-based magnetic nanocarriers: controlled drug loading and pH-sensitive drug release. 2016 , 40, 305-313	2
698	Synthesis of Ferromagnetic Fe _{0.6} Mn _{0.4} O Nanoflowers as a New Class of Magnetic Theranostic Platform for In Vivo T1 -T2 Dual-Mode Magnetic Resonance Imaging and Magnetic Hyperthermia Therapy. 2016 , 5, 2092-104	56
697	5-Fluorouracil encapsulated magnetic nanohydrogels for drug-delivery applications. 2016 , 133,	33
696	Encapsulation of hydrophobic or hydrophilic iron oxide nanoparticles into poly(lactic acid) micro/nanoparticles via adaptable emulsion setup. 2016 , 133,	0
695	Single-Layered MoS ₂ -PEI-PEG Nanocomposite-Mediated Gene Delivery Controlled by Photo and Redox Stimuli. 2016 , 12, 1184-92	147
694	The Age of Cortical Neural Networks Affects Their Interactions with Magnetic Nanoparticles. 2016 , 12, 3559-67	15
693	Tuning Optical Properties of Encapsulated Clusters of Gold Nanoparticles through Stimuli-Triggered Controlled Aggregation. 2016 , 22, 7702-5	5
692	Iron oxide and gold nanoparticles in cancer therapy. 2016 ,	2
691	Biocompatible iron oxide nanoparticles for enhancement of MRI, thermography and thermal ablation. 2016 ,	1
690	Crystallization of Iron Nanostructures with Secondary-Laser-Assisted Pulsed Laser Ablation. 2016 , 99, 29-36	
689	Detection of Cancer-Specific Proteases Using Magnetic Relaxation of Peptide-Conjugated Nanoparticles in Biological Environment. 2016 , 16, 3668-74	50
688	Lipid-based drug delivery systems in the treatment of wet age-related macular degeneration. 2016 , 6, 781-792	14
687	Blood Exosomes Endowed with Magnetic and Targeting Properties for Cancer Therapy. 2016 , 10, 3323-33	256

686	Application of Fe ₇₈ Si ₉ B ₁₃ amorphous particles in magnetorheological fluids. 2016 , 6, 22511-22518	16
685	High Antimicrobial Activity and Low Human Cell Cytotoxicity of Core-Shell Magnetic Nanoparticles Functionalized with an Antimicrobial Peptide. 2016 , 8, 11366-78	50
684	Role of functionalization: strategies to explore potential nano-bio applications of magnetic nanoparticles. 2016 , 6, 43989-44012	145
683	Exchange bias and magnetization reversal in ferromagnet/antiferromagnet antidot arrays. 2016 , 413, 108-114	4
682	Coadsorption of Doxorubicin and Selected Dyes on Carbon Nanotubes. Theoretical Investigation of Potential Application as a pH-Controlled Drug Delivery System. 2016 , 32, 4719-28	50
681	Magnetic field-enhanced cellular uptake of doxorubicin loaded magnetic nanoparticles for tumor treatment. 2016 , 3, 095010	20
680	Magnetic-responsive microparticles with customized porosity for drug delivery. 2016 , 6, 88157-88167	29
679	Magnetic Nanostructures for MRI-Based Cancer Detection. 2016 , 327-359	
678	Folic acid conjugated FeO magnetic nanoparticles for targeted delivery of doxorubicin. 2016 , 45, 17401-17408	61
677	Metal-Filled Carbon Nanocapsules. 2016 , 363-400	
676	Conformational control of human transferrin covalently anchored to carbon-coated iron nanoparticles in presence of a magnetic field. 2016 , 45, 367-374	11
675	Mesoporous γ -Iron Oxide Nanoparticles for Magnetically Triggered Release of Doxorubicin and Hyperthermia Treatment. 2016 , 22, 17020-17028	34
674	Study of ²²³ Ra uptake mechanism by Fe ₃ O ₄ nanoparticles: towards new prospective theranostic SPIONs. 2016 , 18, 1	44
673	Surfactant-Free Emulsion Polymerization Stabilized by Ultrasmall Superparamagnetic Iron Oxide Particles Using Acrylic Acid or Methacrylic Acid as Auxiliary Comonomers. 2016 , 49, 7609-7624	18
672	Size and Chemistry Controlled Cobalt-Ferrite Nanoparticles and Their Anti-proliferative Effect against the MCF-7 Breast Cancer Cells. 2016 , 2, 2139-2152	28
671	Electrocatalytic Nanostructured Ferric Tannates: Characterization and Application of a Polyphenol Nanosensor. 2016 , 17, 3196-3203	13
670	Core and surface/interface magnetic anisotropies in nanocrystalline nickel. 2016 , 689, 533-541	8
669	Tuning morphology and magnetism of magnetite nanoparticles by calix[8]arene-induced oriented aggregation. 2016 , 18, 8591-8598	3

668	Magnetic nanomaterials and sensors for biological detection. 2016 , 12, 2459-2473	35
667	High-Frequency Absorption of the Hybrid Composites with Spindle-like Fe ₃ O ₄ Nanoparticles and Multiwalled Carbon Nanotubes. 2016 , 11, 1650097	5
666	Functional magnetic particles providing osmotic pressure as reusable draw solutes in forward osmosis membrane process. 2016 , 27, 2136-2144	15
665	Investigating the effect of tumor vascularization on magnetic targeting in vivo using retrospective design of experiment. 2016 , 106, 276-85	51
664	Iron Oxides and Their Silica Nanocomposites as Biocompatible Systems for Biomedical Applications. 2016 , 529-542	1
663	Synthesis of ferromagnetic La _{1-x} Sr _x MnO ₃ nanoparticles by precipitation from diethylene glycol solution and their properties. 2016 , 5, 197-203	4
662	New hybrid magnetic nanoparticles based on chitosan-maltose derivative for antitumor drug delivery. 2016 , 92, 561-572	23
661	Real-time monitoring of magnetic drug targeting using fibered confocal fluorescence microscopy. 2016 , 244, 240-246	17
660	Injectable hydrogel-based drug delivery systems for local cancer therapy. 2016 , 21, 1835-1849	231
659	Targeted and controlled anticancer drug delivery and release with magnetoelectric nanoparticles. 2016 , 6, 20867	154
658	Innovation of Strategies and Challenges for Fungal Nanobiotechnology. 2016 , 25-46	6
657	Synthesis of polydopamine as a new and biocompatible coating of magnetic nanoparticles for delivery of doxorubicin in mouse breast adenocarcinoma. 2016 , 78, 1073-1084	25
656	Unraveling structural and magnetic information during growth of nanocrystalline SrFe ₁₂ O ₁₉ . 2016 , 4, 10903-10913	25
655	Targeted Delivery of Nutraceuticals Using Nanoparticles. 2016 , 87-116	
654	Surface morphology and electrocatalytic properties of nickel nanoparticles formed in track pores. 2016 , 10, 942-948	1
653	Hydrazine-modified starch coated magnetic nanoparticles as an effective pH-responsive nanocarrier for doxorubicin delivery. 2016 , 39, 203-209	35
652	Characterization and photodegradation activity of hollow Zn _{1-x} Ni _x Fe ₂ O ₄ sphere. 2016 , 27, 2624-2632	4
651	Nanoparticles and nanostructured carriers for drug delivery and contrast enhancement. 2016 ,	

650	Advanced biomaterials and their potential applications in the treatment of periodontal disease. 2016 , 36, 760-75	28
649	HER2 Targeted Breast Cancer Therapy with Switchable "Off/On" Multifunctional "Smart" Magnetic Polymer Core-Shell Nanocomposites. 2016 , 8, 2262-79	41
648	A bimodal molecular imaging probe based on chitosan encapsulated magneto-fluorescent nanocomposite offers biocompatibility, visualization of specific cancer cells in vitro and lung tissues in vivo. 2016 , 498, 110-8	18
647	Citrate-capped iron oxide nanoparticles impair the osteogenic differentiation potential of rat mesenchymal stem cells. 2016 , 4, 245-256	20
646	Evaluation of magnetic nanoparticles coated by 5-fluorouracil imprinted polymer for controlled drug delivery in mouse breast cancer model. 2016 , 497, 228-38	62
645	In vivo risk evaluation of carbon-coated iron carbide nanoparticles based on short- and long-term exposure scenarios. 2016 , 11, 783-96	16
644	Doxorubicin loaded dual pH- and thermo-responsive magnetic nanocarrier for combined magnetic hyperthermia and targeted controlled drug delivery applications. 2016 , 8, 12152-61	141
643	Apomaghemite as a doxorubicin carrier for anticancer drug delivery. 2016 , 157, 46-51	13
642	Facile synthesis of core-shell structured $ZrO_2 @ SiO_2$ via a modified Stober method. 2016 , 42, 7583-7592	15
641	Evaluation of zinc-doped magnetite nanoparticle toxicity in the liver and kidney of mice after sub-chronic intragastric administration. 2016 , 5, 97-106	21
640	Iron oxide-silica nanocomposites yielded by chemical route and sol-gel method. 2016 , 79, 457-465	11
639	Water dispersible $CoFe_2O_4$ nanoparticles with improved colloidal stability for biomedical applications. 2016 , 404, 166-169	57
638	Selective synthesis of Fe_3O_4 , $\gamma-Fe_2O_3$, and $\alpha-Fe_2O_3$ using cellulose-based composites as precursors. 2016 , 6, 2135-2140	55
637	Recent advances of cocktail chemotherapy by combination drug delivery systems. 2016 , 98, 19-34	384
636	Superparamagnetic iron-doped nanocrystalline apatite as a delivery system for doxorubicin. 2016 , 4, 57-70	49
635	In vivo dual-targeted chemotherapy of drug resistant cancer by rationally designed nanocarrier. 2016 , 75, 71-81	51
634	toxicity evaluation of silica-coated iron oxide nanoparticles in human SHSY5Y neuronal cells. 2016 , 5, 235-247	21
633	Nanotechnology for protein delivery: Overview and perspectives. 2016 , 240, 24-37	214

632	Study of Iron oxide nanoparticles using Mössbauer spectroscopy with a high velocity resolution. 2016 , 152, 666-79	11
631	Efficient synthesis of superparamagnetic magnetite nanoparticles under air for biomedical applications. 2017 , 429, 166-176	21
630	Novel nanoparticulate systems for lung cancer therapy: an updated review. 2017 , 25, 499-512	31
629	Magnetic nanoparticles-based drug and gene delivery systems for the treatment of pulmonary diseases. 2017 , 12, 387-402	38
628	Specific On-site Assembly of Multifunctional Magnetic Nanocargos Based on Highly Efficient and Parallelized Bioconjugation: Toward Personalized Cancer Targeting Therapy. 2017 , 3, 381-391	5
627	Transforming single domain magnetic CoFe ₂ O ₄ nanoparticles from hydrophobic to hydrophilic by novel mechanochemical ligand exchange. 2017 , 19, 1	22
626	Sensor fusion of electron paramagnetic resonance and magnetorelaxometry data for quantitative magnetic nanoparticle imaging. 2017 , 50, 085008	
625	The complementarity and similarity of magnetorelaxometry and thermal magnetic noise spectroscopy for magnetic nanoparticle characterization. 2017 , 50, 085004	7
624	Engineering approaches in siRNA delivery. 2017 , 525, 343-358	14
623	Complexes of Magnetic Nanoparticles with Cellulose Nanocrystals as Regenerable, Highly Efficient, and Selective Platform for Protein Separation. 2017 , 18, 898-905	40
622	Multi-color magnetic nanoparticle imaging using magnetorelaxometry. 2017 , 62, 3139-3157	16
621	Analysis of the heterogeneous structure of iron oxide/gold nanoparticles and their application in a nanosensor. 2017 , 245, 753-764	8
620	Self-assembly of glucose oxidase on reduced graphene oxide-magnetic nanoparticles nanocomposite-based direct electrochemistry for reagentless glucose biosensor. 2017 , 76, 398-405	106
619	Nanoparticle Bioconjugates: Materials that Benefit from Chemoselective and Bioorthogonal Ligation Chemistries. 2017 , 543-629	2
618	Modeling of submicron complex oxides synthesis. 2017 , 51, 27-37	4
617	Heat transport phenomenon in the ferromagnetic fluid over a stretching sheet with thermal stratification. 2017 , 7, 854-861	52
616	The dynamics of magnetic nanoparticles exposed to non-heating alternating magnetic field in biochemical applications: theoretical study. 2017 , 19, 1	19
615	Magnetic nanoparticles for drug targeting: from design to insights into systemic toxicity. Preclinical evaluation of hematological, vascular and neurobehavioral toxicology. 2017 , 5, 772-783	14

614	Sorafenib delivery nanoplatform based on superparamagnetic iron oxide nanoparticles magnetically targets hepatocellular carcinoma. 2017 , 10, 2431-2448	49
613	In vitro biocompatibility study of sub-5 nm silica-coated magnetic iron oxide fluorescent nanoparticles for potential biomedical application. 2017 , 7, 46513	29
612	Physicochemical properties and in vitro cytotoxicity of iron oxide-based nanoparticles modified with antiangiogenic and antitumor peptide A7R. 2017 , 19, 160	8
611	Impact of precursor solution concentration to form superparamagnetic MgFe ₂ O ₄ nanospheres by ultrasonic spray pyrolysis technique for magnetic thermotherapy. 2017 , 28, 1696-1703	11
610	Magnetic-Silk Core-Shell Nanoparticles as Potential Carriers for Targeted Delivery of Curcumin into Human Breast Cancer Cells. 2017 , 3, 1027-1038	49
609	Targeted delivery and pH-responsive release of doxorubicin to cancer cells using calcium carbonate/hyaluronate/glutamate mesoporous hollow spheres. 2017 , 502, 59-66	25
608	Paclitaxel-Loaded Magnetic Nanoparticles: Synthesis, Characterization, and Application in Targeting. 2017 , 106, 2115-2122	19
607	Interpreting the magnetorelaxometry signal of suspended magnetic nanoparticles with Kaczmarz algorithm. 2017 , 50, 195002	9
606	Numerical simulation of magnetic nano drug targeting in a patient-specific coeliac trunk. 2017 , 437, 86-97	13
605	External Magnetic Field-Enhanced Chemo-Photothermal Combination Tumor Therapy via Iron Oxide Nanoparticles. 2017 , 9, 16581-16593	45
604	Magnetic hyperthermia and pH-responsive effective drug delivery to the sub-cellular level of human breast cancer cells by modified CoFeO nanoparticles. 2017 , 133, 7-19	37
603	Combination therapy with doxorubicin-loaded galactosylated poly(ethyleneglycol)-lithocholic acid to suppress the tumor growth in an orthotopic mouse model of liver cancer. 2017 , 116, 130-144	32
602	Development and Characterization of Magnetite/Poly(butylcyanoacrylate) Nanoparticles for Magnetic Targeted Delivery of Cancer Drugs. 2017 , 18, 3042-3052	6
601	Characterization of drug delivery particles produced by supercritical carbon dioxide technologies. 2017 , 128, 244-262	28
600	Cytotoxicity and genotoxicity of GO-Fe ₃ O ₄ hybrid in cultured mammalian cells. 2017 , 19, 27-33	4
599	A novel experimental method for adsorption of fatty acids from pumpkin seed oil in the presence of iron oxide nanoparticles: Experimental and SA ILOOCV IGRBF mathematical modeling. 2017 , 528, 30-40	7
598	Preparation and characterization of mucosal adhesive and two-step drug releasing cetirizine-chitosan nanoparticle. 2017 , 173, 600-609	19
597	Removal of ciprofloxacin from aqueous solution using humic acid- and levulinic acid- coated Fe ₃ O ₄ nanoparticles. 2017 , 123, 259-267	25

596	Covalently bonded pancreatic lipase onto the dithiocarbamate/chitosan-based magnetite: Stepwise fabrication of FeO@CS/NHCS-Lip as a novel and promising nanobiocatalyst. 2017 , 103, 1194-1200	38
595	Magnetic inductive heating of organs of mouse models treated by copolymer coated Fe ₃ O ₄ nanoparticles. 2017 , 8, 025013	9
594	Bimagnetic Core/Shell Nanoparticles: Current Status and Future Possibilities. 2017 , 83-119	4
593	The calculation of drag on nano-cylinders. 2017 , 111, 1025-1046	2
592	Non-contact Mn _{1-x} Ni _x Fe ₂ O ₄ ferrite nano-heaters for biological applications [heat energy generated by NIR irradiation]. 2017 , 7, 18162-18171	14
591	Computational and performance analysis of a continuous magnetophoretic bioseparation chip with alternating magnetic fields. 2017 , 21, 1	9
590	An innovative method to introduce magnetism into demulsifier. 2017 , 314, 631-639	27
589	A facile approach to the elucidation of magnetic parameters of CuFe ₂ O ₄ nanoparticles synthesized by hydrothermal route. 2017 , 428, 204-212	20
588	Synthesis and characterization of cationic lipid coated magnetic nanoparticles using multiple emulsions as microreactors. 2017 , 426, 518-524	7
587	Microscale magnetic compasses. 2017 , 122, 094301	
586	Synthesis, Functionalization, and Design of Magnetic Nanoparticles for Theranostic Applications. 2017 , 6, 1700306	120
585	Nanoengineered Thermoresponsive Magnetic Nanoparticles for Drug Controlled Release. 2017 , 218, 1700350	8
584	Reversible and irreversible aggregation of magnetic liposomes. 2017 , 9, 15131-15143	8
583	Nanotechnology-Based Immunotherapeutic Strategies for the Treatment of Cancer. 2017 , 83-115	1
582	Highly Specific Binding on Antifouling Zwitterionic Polymer-Coated Microbeads as Measured by Flow Cytometry. 2017 , 9, 38211-38221	27
581	Adamantylated organosilatrane: design, synthesis, and potential appraisal in surface modification and anti-protozoal activity. 2017 , 41, 11626-11639	5
580	The dendritic effect and magnetic permeability in dendron coated nickel and manganese zinc ferrite nanoparticles. 2017 , 9, 13922-13928	6
579	Pluronic Nanotechnology for Overcoming Drug Resistance. 2017 , 207-237	12

578	A novel magnetic composite adsorbent of phenolic compounds based on waste poly(ethylene terephthalate) and carbon-encapsulated magnetic nanoparticles. 2017 , 41, 12617-12630	7
577	Quantum Mechanical Study on the Mechanistic, Energetic, and Structural Properties of Adsorption of 6-Thioguanine onto γ -Fe ₂ O ₃ Nanoparticles. 2017 , 38, 869-874	5
576	Elegant pH-Responsive Nanovehicle for Drug Delivery Based on Triazine Dendrimer Modified Magnetic Nanoparticles. 2017 , 33, 8503-8515	25
575	Standardisation of magnetic nanoparticles in liquid suspension. 2017 , 50, 383003	47
574	Functionalized 2D nanomaterials for gene delivery applications. 2017 , 347, 77-97	58
573	Pb (II) removal from water using surface-modified polythiophene-coated rice husk ash nanocomposite. 2017 , 47, 1614-1624	9
572	Multiplex coaxial flow focusing for producing multicompartment Janus microcapsules with tunable material compositions and structural characteristics. 2017 , 17, 3168-3175	28
571	Trifunctional FeO/CaP/Alginate Core-Shell-Corona Nanoparticles for Magnetically Guided, pH-Responsive, and Chemically Targeted Chemotherapy. 2017 , 3, 2366-2374	27
570	Thiazolium-functionalized polymer-coated magnetic microspheres for the selective recognition and separation of hemoglobin. 2017 , 41, 13673-13680	2
569	Magnetic Sensing Potential of FeO Nanocubes Exceeds That of FeO Nanospheres. 2017 , 2, 8010-8019	24
568	Nanoparticles and Their Applications. 2017 , 335-361	8
567	Hematite nanoparticle clusters with remarkably high magnetization synthesized from water-treatment waste by one-step sharp high-temperature dehydration 2017 , 7, 51298-51302	5
566	Ultrasound-assisted high-yield multicomponent synthesis of triazolo[1,2-a]indazole-triones using silica-coated ZnO nanoparticles as a heterogeneous catalyst. 2017 , 19, 5885-5899	27
565	The principles of a new method, MNF-3D, for concentration of magnetic particles in three-dimensional space. 2017 , 112, 137-140	7
564	Influence of silica surface coating on optical properties of Er ³⁺ -Yb ³⁺ :YMoO ₄ upconverting nanoparticles. 2017 , 327, 838-848	50
563	Nanomaterials and their Classification. 2017 , 3-45	21
562	An eco-friendly route of γ -FeO nanoparticles formation and investigation of the mechanical properties of the HPMC- γ -FeO nanocomposites. 2017 , 40, 351-359	24
561	Bioresorbable polymer nanoparticles in the medical and pharmaceutical fields. 2017 , 265-283	9

560	Superparamagnetic nano-biocomposites for application as dielectric resonator antennas. 2017 , 185, 104-113	4
559	Finding the magnetic size distribution of magnetic nanoparticles from magnetization measurements via the iterative Kaczmarz algorithm. 2017 , 431, 33-37	11
558	Magnetic properties of iron oxide-based nanoparticles: Study using Mössbauer spectroscopy with a high velocity resolution and magnetization measurements. 2017 , 431, 46-48	7
557	Types of ceramics. 2017 , 21-82	7
556	The evaluation of temperature in synthesizing process of natural iron sand based Fe ₃ O ₄ nanoparticles for Ni ion adsorption. 2017 ,	2
555	Metal Nanoparticles and Their Toxicity. 2017 , 237-293	1
554	Metal Nanoparticles and Their Toxicity. 2017 , 203-259	
553	Fiber Optic Magnetic Field Sensor Based on Magnetic Nanoparticle Assembly in Microcapillary Ring Resonator. 2017 , 9, 1-9	9
552	Conspectus on Nanotechnology in Oral Cancer Diagnosis and Treatment. 2017 , 31-49	1
551	Applications of nanoscale drugs carriers in the treatment of chronic diseases. 2017 , 37-55	3
550	4.39 Hybrid Magnetic Nanoparticles for Targeted Delivery. 2017 , 750-771	1
549	Investigation of Oriented Magnetic Field Effects on Entropy Generation in an Inclined Channel Filled with Ferrofluids. 2017 , 19, 377	11
548	Magnetic nanoparticles and cancer. 2017 , 105-137	4
547	Multifunctional therapeutic hybrid nanocarriers for targeted and triggered drug delivery: recent trends and future prospects. 2017 , 461-493	
546	Targeted drug delivery via chitosan-coated magnetic nanoparticles. 2017 , 835-864	2
545	Medicated Nanoparticle for Gene Delivery. 2017 ,	4
544	Readily prepared biodegradable nanoparticles to formulate poorly water soluble drugs improving their pharmacological properties: The example of trabectedin. 2018 , 276, 140-149	9
543	Nanocomposite thin films for triggerable drug delivery. 2018 , 15, 509-522	12

542	Development of a collision-avoidance vector based control algorithm for automated in-vivo transportation of biological cells. 2018 , 90, 147-156	8
541	Recent advances in aptamer-armed multimodal theranostic nanosystems for imaging and targeted therapy of cancer. 2018 , 117, 301-312	38
540	Formation of free-standing magnetic particles by solid-state dewetting of Fe ₈₀ Pd ₂₀ thin films. 2018 , 742, 751-758	3
539	Magnetic nanoparticles based cancer therapy: current status and applications. 2018 , 61, 400-414	55
538	Modelling and simulation of particle-particle interaction in a magnetophoretic bio-separation chip. 2018 , 30, 042001	9
537	Modelling the synthesis of nanoparticles in continuous microreactors: The role of diffusion and residence time distribution on nanoparticle characteristics. 2018 , 350, 1144-1154	21
536	Evaluation of the Potential of Dipole Field Navigation for the Targeted Delivery of Therapeutic Agents in a Human Vascular Network. 2018 , 54, 1-12	8
535	Polymer-Magnetic Composite Fibers for Remote-Controlled Drug Release. 2018 , 10, 15524-15531	42
534	Preparation of folic acid conjugated hematite nanoparticles using high energy ball milling for biomedical applications. 2018 ,	1
533	Burgeoning tool of biomedical applications - Superparamagnetic nanoparticles. 2018 , 752, 332-353	40
532	In Vivo Targeted, Responsive, and Synergistic Cancer Nanotheranostics by Magnetic Resonance Imaging-Guided Synergistic High-Intensity Focused Ultrasound Ablation and Chemotherapy. 2018 , 10, 15428-15441	50
531	Floating liquid crystalline molecularly imprinted polymer coated carbon nanotubes for levofloxacin delivery. 2018 , 127, 150-158	28
530	Magnetic iron oxide nanoparticles as drug carriers: clinical relevance. 2018 , 13, 953-971	113
529	Pendant/bridged/mesoporous silsesquioxane nanoparticles: Versatile and biocompatible platforms for smart delivery of therapeutics. 2018 , 340, 125-147	30
528	Magnetic nanoparticles: recent developments in drug delivery system. 2018 , 44, 697-706	38
527	Nanomedicine: An effective tool in cancer therapy. 2018 , 540, 132-149	143
526	Towards energy efficient separations with metal organic frameworks. 2018 , 54, 2825-2837	18
525	Quantum Mechanical Study of γ -Fe ₂ O ₃ Nanoparticle as a Nanocarrier for Anticancer Drug Delivery. 2018 , 232, 579-592	6

524	Advances in Magnetic Nanoparticles for Biomedical Applications. 2018 , 7, 1700845	277
523	Sensitive fluorescence detection of Ni ²⁺ ions using fluorescein functionalized Fe ₃ O ₄ nanoparticles. 2018 , 6, 1105-1115	30
522	Colloid Nanoparticles and Carbon Nanotubes. What Can We Learn About Their Biomedical Application From Molecular Dynamics Simulations?. 2018 , 23-37	
521	Sequential synthesis of a magnetic nano-adsorbent: How the first step identifies the final product. 2018 , 541, 97-107	7
520	Synthesis of polymer coated Co _{0.5} Zn _{0.5} Fe ₂ O ₄ nanoparticles and their enhanced anticancer activity against HepG2 cell line. 2018 , 5, 056103	3
519	Fe ₃ O ₄ @SiO ₂ @MPS core/shell nanocomposites: The effect of the core weight on their magnetic properties and oil separation performance. 2018 , 6, 3034-3040	11
518	Development of magnetite nanoparticles/gelatin composite films for triggering drug release by an external magnetic field. 2018 , 152, 78-87	27
517	Large magnetostriction in chemically fabricated CoFe ₂ O ₄ nanoparticles and its temperature dependence. 2018 , 460, 141-145	8
516	Anisotropic magnetic nanoparticles: A review of their properties, syntheses and potential applications. 2018 , 95, 286-328	153
515	Performance Tests and Microchain Model Validation of a Novel Kind of MR Fluid with GO-Coated Iron Particles. 2018 , 30, 04018072	7
514	The ambivalent effect of FeO nanoparticles on the urea-induced unfolding and dilution-based refolding of lysozyme. 2018 , 13, 045014	1
513	Iron Oxide Nanoparticles for Biomedical Applications: Synthesis, Functionalization, and Application. 2018 , 43-88	23
512	Magnetic iron oxide nanoparticles as drug carriers: preparation, conjugation and delivery. 2018 , 13, 929-952	98
511	Free-floating magnetic microstructures by mask photolithography. 2018 , 532, 59-63	7
510	Molecular encapsulator on the surface of magnetic nanoparticles. Controlled drug release from calcium Ferrite/Cyclodextrin-tethered polymer hybrid. 2018 , 161, 347-355	12
509	Fabrication of sustained-release zein nanoparticles via modified coaxial electrospraying. 2018 , 334, 807-816	61
508	Magnetic carbon nanotubes: preparation, physical properties, and applications in biomedicine. 2018 , 46, 1314-1330	38
507	Synthesis and characterization of CaFe ₂ O ₄ nanoparticles via co-precipitation and auto-combustion methods. 2018 , 44, 46-50	35

506	Highly efficient antibody purification with controlled orientation of protein A on magnetic nanoparticles. 2018 , 9, 108-112	14
505	Synthesis of FeCoB amorphous nanoparticles and application in ferrofluids. 2018 , 435, 1314-1321	9
504	Single phase microreactor for the continuous, high-temperature synthesis of . 2018 , 340, 66-72	38
503	Numerical simulation of magnetic nano drug targeting in patient-specific lower respiratory tract. 2018 , 451, 554-564	20
502	Nanostructured boron compounds for cancer therapy. 2018 , 90, 653-663	21
501	Emerging potential of stimulus-responsive nanosized anticancer drug delivery systems for systemic applications. 2018 , 41, 111-129	37
500	Fe(II)-substituted cobalt ferrite nanoparticles against multidrug resistant microorganisms. 2018 , 435, 141-148	21
499	Quantum Dots and Fluorescent and Magnetic Nanocomposites: Recent Investigations and Applications in Biology and Medicine. 2018 ,	
498	The use of manganese-doped mesoporous silica nanopowder for targeted drug delivery. 2018 , 1115, 042067	
497	Magnetic Alginate/Chitosan Nanoparticles for Targeted Delivery of Curcumin into Human Breast Cancer Cells. 2018 , 8,	61
496	Mathematical Model on Magnetic Drug Targeting in Microvessel. 2018 ,	4
495	Codelivery of Hydrophobic and Hydrophilic Drugs by Graphene-Decorated Magnetic Dendrimers. 2018 , 34, 15304-15318	27
494	The Chemical Characteristics of Iron Oxide/Carbon Synthesized by the Arc Discharge Method in Liquid Media with the Addition of Ammonia. 2018 , 21, 166-170	1
493	Facile Synthesis of Water-Dispersed Photoluminescent Gold(I)-Alkanethiolate Nanoparticles via Aggregation-Induced Emission and Their Application in Cell Imaging. 2018 , 1, 6641-6648	5
492	Dual Role of Magnetic Nanoparticles as Intracellular Hotspots and Extracellular Matrix Disruptors Triggered by Magnetic Hyperthermia in 3D Cell Culture Models. 2018 , 10, 44301-44313	24
491	Localizing the Nanodeformation Impact of Magnetic Nanoparticles on Macromolecular Objects by Physical and Biochemical Means. 2018 , 82, 1073-1078	2
490	Calcium-carbonate packaging magnetic polydopamine nanoparticles loaded with indocyanine green for near-infrared induced photothermal/photodynamic therapy. 2018 , 81, 242-255	27
489	Green Synthesis and Surface Modification of Iron Oxide Nanoparticles with Enhanced Magnetization Using Natural Rubber Latex. 2018 , 6, 13756-13765	35

488	Chitosan enhances gene delivery of oligonucleotide complexes with magnetic nanoparticles-cell-penetrating peptide. 2018 , 33, 392-401	47
487	Hybrid nanocarrier system for guiding and augmenting simvastatin cytotoxic activity against prostate cancer. 2018 , 46, S641-S650	9
486	Interactions between Metal Oxides and Biomolecules: from Fundamental Understanding to Applications. 2018 , 118, 11118-11193	96
485	Synthesis and characterization of superparamagnetic nanohybrid Fe ₃ O ₄ /NH ₂ -Ag as an effective carrier for the delivery of acyclovir. 2018 , 32, e4565	9
484	Noninvasive Transdermal Delivery System of Lidocaine Using an Acoustic Droplet-Vaporization Based Wearable Patch. 2018 , 14, e1803266	34
483	Transmission Electron Microscopy. 2018 , 69-203	3
482	Enzymatically promoted release of organic molecules linked to magnetic nanoparticles. 2018 , 9, 986-999	2
481	Focusing of Fe ₃ O ₄ nanoparticles using a rotating magnetic field in various environments. 2018 , 382, 3192-3196	11
480	Aegle marmelos leaves extract mediated synthesis of zinc ferrite: Antibacterial activity and drug delivery. 2018 , 5, 115404	22
479	Preparation and Tests of MR Fluids With CI Particles Coated With MWNTs. 2018 , 5,	8
478	Potential doxorubicin delivery system based on magnetic gelatin microspheres crosslinked with sugars. 2018 , 28, 131-138	3
477	A Novel Magnetic Actuation Scheme to Disaggregate Nanoparticles and Enhance Passage across the Blood-Brain Barrier. 2017 , 8,	21
476	Multifunctional and Stimuli-Responsive Magnetic Nanoparticle-Based Delivery Systems for Biomedical Applications. 2018 , 1, 1800011	57
475	Magnetic properties of cobalt ferrite synthesized by mechanical alloying. 2018 ,	3
474	Micro-/Nanorobots at Work in Active Drug Delivery. 2018 , 28, 1706100	182
473	Novel SERS labels: Rational design, functional integration and biomedical applications. 2018 , 371, 11-37	79
472	Magnetic filter produced by ZnFe ₂ O ₄ nanoparticles using freeze casting. 2018 , 7, 350-355	9
471	Biomedical Applications of Magnetic Nanomaterials. 2018 , 345-389	7

470	Encapsulated Magnetite Nanoparticles: Preparation and Application as Multifunctional Tool for Drug Delivery Systems. 2018 , 175-192	10
469	Superparamagnetic iron oxide nanoparticles for drug delivery. 2018 , 861-903	8
468	HSA loaded with CoFe ₂ O ₄ /MNPs as a high-efficiency carrier for epirubicin anticancer drug delivery. 2018 , 12, 336-342	11
467	A Novel Magnetic Carbon Nanotubes Functionalized with Pyridine Groups: Synthesis, Characterization and Their Application as an Efficient Carrier for Plasmid DNA and Aptamer. 2018 , 3, 6743-6749	10
466	Magnetically responsive polymers for drug delivery applications. 2018 , 143-168	3
465	Production of Curcumin-Loaded Silk Fibroin Nanoparticles for Cancer Therapy. 2018 , 8,	96
464	Fabrication of Protease-Sensitive and Light-Responsive Microcapsules Encompassed with Single Layer of Gold Nanoparticles by Using Self-Assembly Protein of Eynuclein. 2018 , 10, 26628-26640	13
463	Recent Trends in Biomedical and Pharmaceutical Industry Due to Engineered Nanomaterials. 2018 , 499-519	1
462	The Magnetic Nanobased Strategies to Overcome Drug Resistance in Breast Cancer Therapy. 2018 , 577-586	2
461	Micellar Iron Oxide Nanoparticles Coated with Anti-Tumor Glycosides. 2018 , 8,	9
460	ECyclodextrin grafted magnetic graphene oxide applicable as cancer drug delivery agent: Synthesis and characterization. 2018 , 218, 62-69	63
459	Stabilisation of small mono- and bimetallic goldSilver nanoparticles using calix[8]arene derivatives. 2018 , 42, 14128-14137	13
458	Numerical Study of Lateral Migration of Elliptical Magnetic Microparticles in Microchannels in Uniform Magnetic Fields. 2018 , 4, 16	13
457	The effect of temperature on synthesis of MgFe ₂ O ₄ based on natural iron sand by Co-precipitation method as adsorbent Pb ion. 2018 , 985, 012046	2
456	PEGylated self-assembled enzyme-responsive nanoparticles for effective targeted therapy against lung tumors. 2018 , 16, 57	18
455	Application of Nanoparticles for Targeting G Protein-Coupled Receptors. 2018 , 19,	19
454	Enhanced cancer therapy with cold-controlled drug release and photothermal warming enabled by one nanoplatform. 2018 , 180, 265-278	16
453	Nanoparticle Induced Conformational Switch Between H-Helix and H-Sheet Attenuates Immunogenic Response of MPT63. 2018 , 34, 8807-8817	8

452	Hybrid Vesicular Drug Delivery Systems for Cancer Therapeutics. 2018 , 28, 1802136	24
451	Heating at the Nanoscale through Drug-Delivery Devices: Fabrication and Synergic Effects in Cancer Treatment with Nanoparticles. 2018 , 2, 1800007	18
450	An efficient and selective benzylic oxidation of tetralin to 1-tetralone on Cu(II) immobilized γ -Fe ₂ O ₃ @SBA-15 magnetic nanocatalyst in green water medium without base or additives. 2018 , 453, 74-84	6
449	Dip-Pen Nanolithography Method for Fabrication of Biofunctionalized Magnetic Nanodiscs Applied in Medicine. 2018 , 52, 675-677	2
448	Magnetite-Corrole Hybrid Nanoparticles. 2018 , 4, 37	1
447	Efficiency of Biodegradable and pH-Responsive Polysuccinimide Nanoparticles (PSI-NPs) as Smart Nanodelivery Systems in Grapefruit: In Vitro Cellular Investigation. 2018 , 18, e1800159	19
446	Advances in Biomaterials for Drug Delivery. 2018 , 30, e1705328	352
445	Lightweight Evolution Strategies for Nanoswimmers-oriented In Vivo Computation. 2019 ,	2
444	Nanotechnology and nanomaterials. 2019 , 1-93	2
443	Magnetic and hyperthermia properties of Ni _{1-x} Cu _x nanoparticles coated with oleic acid and silica prepared via sol-gel method. 2019 , 125, 1	1
442	Selective, Agglomerate-Free Separation of Bacteria Using Biofunctionalized, Magnetic Janus Nanoparticles.. 2019 , 2, 3520-3531	10
441	Shape-dependent structural and magnetic properties of Fe nanoparticles studied through simulation methods.. 2019 , 9, 22057-22063	10
440	Thermal slip and radiative heat transfer effects on electro-osmotic magnetonanoliquid peristaltic propulsion through a microchannel. 2019 , 48, 2882-2908	28
439	Bionanopolymers for Drug Delivery. 2019 , 191-220	1
438	Structural and magnetic properties of iron nanoparticles: insights from Monte-Carlo and molecular-statics simulations. 2019 , 6, 095097	9
437	Octylamine as a novel fuel for the preparation of magnetic iron oxide particles by an aqueous auto-ignition method. 2019 , 805, 545-550	3
436	Remote targeted implantation of sound-sensitive biodegradable multi-cavity microparticles with focused ultrasound. 2019 , 9, 9612	13
435	Magnetic Nanomaterials for Magnetically-Aided Drug Delivery and Hyperthermia. 2019 , 9, 2927	11

434	Synthesis and correction of albumin magnetic nanoparticles with organic compounds for absorbing and releasing doxorubicin hydrochloride. 2019 , 182, 110368	9
433	Novel Au@BiO ₂ /WO ₃ Core-Shell Composite Nanoparticles for Surface-Enhanced Raman Spectroscopy with Potential Application in Cancer Cell Imaging. 2019 , 29, 1903549	16
432	One-Step Preparation of Nickel Nanoparticle-Based Magnetic Poly(Vinyl Alcohol) Gels. 2019 , 9, 744	4
431	Magnetic and Plasmonic Nanoparticles for Biomedical Devices. 2019 , 126, 170401	4
430	Magnetic Nanomedicine. 2019 , 269-313	
429	Uniform, Scalable, High-Temperature Microwave Shock for Nanoparticle Synthesis through Defect Engineering. 2019 , 1, 759-769	34
428	Magnetic nanoparticles-loaded liposomes as a novel treatment agent for iron deficiency anemia: In vivo study. 2019 , 234, 116787	13
427	Magnetic Functionalized Nanoparticles for Biomedical, Drug Delivery and Imaging Applications. 2019 , 14, 188	102
426	Recent Developments in the Field of Nanotechnology for Development of Medical Implants. 2019 , 30, 544-551	4
425	Application of Immobilized Enzymes in Food Industry. 2019 , 67, 11553-11567	56
424	Green synthesis of iron oxide nanoparticles using Terminalia bellirica and Moringa oleifera fruit and leaf extracts: Antioxidant, antibacterial and thermoacoustic properties. 2019 , 21, 101354	23
423	Dissipation-induced rotation of suspended ferromagnetic nanoparticles. 2019 , 100,	3
422	Preparation and Properties of Semi-Self-Assembled Lipopeptide Vesicles. 2019 , 35, 13174-13181	3
421	Analysis of Hartmann boundary layer peristaltic flow of Jeffrey fluid: Quantitative and qualitative approaches. 2019 , 76, 51-65	17
420	Magnetic particle ornamented dual stimuli responsive nanogel for controlled anticancer drug delivery. 2019 , 43, 3026-3037	11
419	Recent advances in musculoskeletal local drug delivery. 2019 , 93, 135-151	14
418	Graphene Oxide Incorporated Strontium Nanoparticles as a Highly Efficient and Green Acid Catalyst for One-Pot Synthesis of Tetramethyl-9-aryl-hexahydroxanthenes and 13-Aryl-5H-dibenzo[b,i]xanthene-5,7,12,14(13H)-tetraones Under Solvent-Free Conditions. 2019 , 149, 1075-1086	14
417	Clove and cinnamon: Novel antioxidant fuels for preparing magnetic iron oxide particles by the sol-gel autoignition method. 2019 , 786, 71-76	5

416	T cells loaded with magnetic nanoparticles are retained in peripheral lymph nodes by the application of a magnetic field. 2019 , 17, 14	29
415	Magnetic Graphene Oxide Nanocarrier for Targeted Delivery of Cisplatin: A Perspective for Glioblastoma Treatment. 2019 , 12,	20
414	Molecular dynamics simulation of anticancer drug delivery from carbon nanotube using metal nanowires. 2019 , 40, 2179-2190	2
413	Introduction to Nanosensors. 2019 , 1-46	3
412	Role of nanoparticles in advanced biomedical research. 2019 , 347-361	1
411	A Perspective on Fluorescent Nanodiamond Bioimaging. 2019 , 15, e1902151	42
410	Doxorubicin loaded carboxymethyl Assam bora rice starch coated superparamagnetic iron oxide nanoparticles as potential antitumor cargo. 2019 , 5, e01955	12
409	Controlled Oxidation and Self-Passivation of Bimetallic Magnetic FeCr and FeMn Aerosol Nanoparticles. 2019 , 123, 16083-16090	7
408	Properties of MgFe ₂ O ₄ Nanoparticles Synthesized by Ultrasonic Aerosol Pyrolysis for Biomedical Applications. 2019 , 61, 1113-1121	4
407	Bioactive and drug-delivery potentials of polysaccharides and their derivatives. 2019 , 19-48	4
406	Mixture theory modeling for characterizing solute transport in breast tumor tissues. 2019 , 13, 46	4
405	Sonothrombolysis with magnetic microbubbles under a rotational magnetic field. 2019 , 98, 62-71	19
404	Mechanistic, Energetic and Structural Studies of γ -Fe ₂ O ₃ Nanoparticles Functionalized with Drug Artemisinin. 2019 , 64, 503-510	3
403	Mesoporous Silica Nanoparticles for Protein Protection and Delivery. 2019 , 7, 290	89
402	Biocompatibility and Hyperthermia Efficiency of Sonochemically Synthesized Magnetic Nanoparticles. 2019 , 09, 1940006	3
401	Terahertz band communication systems: Challenges, novelties and standardization efforts. 2019 , 35, 100700	43
400	Mechanistic and energetic studies of superparamagnetic iron oxide nanoparticles as a cyclophosphamide anticancer drug nanocarrier: A quantum mechanical approach. 2019 , 44, 92-101	
399	An artificially engineered "tumor bio-magnet" for collecting blood-circulating nanoparticles and magnetic hyperthermia. 2019 , 7, 1815-1824	5

398	Inherent multifunctional inorganic nanomaterials for imaging-guided cancer therapy. <i>Nano Today</i> , 2019 , 26, 108-122	17.9	49
397	Biomimetic Hydroxyapatite a Potential Universal Nanocarrier for Cellular Internalization & Drug Delivery. 2019 , 36, 60		15
396	Effect of oleic acid content on manganese-zinc ferrite properties. 2019 , 103, 87-92		12
395	Targeted Delivery of Surface-Modified Nanoparticles: Modulation of Inflammation for Acute Lung Injury. 2019 , 331-353		2
394	Agglomeration of 10 nm amine-functionalized nano-magnetite does not hinder its efficiency as an environmental adsorbent. 2019 , 54, 648-656		1
393	Synthesis and characterization of $Mn_xMg_{1-x}Fe_2O_4$ based on natural iron sand prepared by Co-precipitation method. 2019 , 1153, 012058		1
392	Degradability and Clearance of Inorganic Nanoparticles for Biomedical Applications. 2019 , 31, e1805730		164
391	Quantum chemical modeling of iron oxide magnetic nanoparticles functionalized with cytarabine. 2019 , 719, 12-21		9
390	Shape Tuning of Magnetite Nanoparticles Obtained by Hydrothermal Synthesis: Effect of Temperature. 2019 , 2019, 1-15		22
389	Elaboration of Trans-Resveratrol Derivative-Loaded Superparamagnetic Iron Oxide Nanoparticles for Glioma Treatment. 2019 , 9,		17
388	Synthetic Vehicles for Encapsulation and Delivery of CRISPR/Cas9 Gene Editing Machinery. 2019 , 2, 1800085		15
387	Nanotherapeutics: A Novel and Powerful Approach in Modern Healthcare System. 2019 , 149-161		13
386	Poly(L-Lactide) Bionanocomposites. 2019 ,		
385	Electrodeposition of Magnetic Alginate-poly-L-lysine Microcapsules for Targeted Drug Delivery. 2019 ,		
384	Synthesis of Magnetite Nanoparticles via Co-precipitation Method. 2019 , 622, 012013		3
383	Inorganic and organic/inorganic composite nanoparticles with potential biomedical applications: synthesis challenges for enhanced performance. 2019 , 47-99		5
382	Combinational delivery therapies of nucleic acids for cancer treatment. 2019 , 257-291		
381	Active pulmonary targeting against tuberculosis (TB) via triple-encapsulation of Q203, bedaquiline and superparamagnetic iron oxides (SPIOs) in nanoparticle aggregates. 2019 , 26, 1039-1048		9

380	Multifunctional magnetic iron oxide nanoparticles: diverse synthetic approaches, surface modifications, cytotoxicity towards biomedical and industrial applications. 2019 , 1,	42
379	Protein biomaterials for theranostic applications. 2019 , 4, 1074-1094	1
378	Motion-planning Using RRTs for a Swarm of Robots Controlled by Global Inputs. 2019 ,	1
377	Therapeutic efficacy of nanoparticles and routes of administration. 2019 , 23, 20	272
376	Disappearing of a Bolus with increasing magnetic field: Peristaltic flows. 2019 , 134, 1	1
375	Synthesis of decorated carbon nanotubes with Fe ₃ O ₄ and Au nanoparticles and their application in catalytic oxidation of alcohols in water. 2019 , 882, 64-69	9
374	Continuous Flow Synthesis of Superparamagnetic Nanoparticles in Reverse Miniemulsion Systems. 2019 , 28, 1-4	12
373	ScFv-conjugated superparamagnetic iron oxide nanoparticles for MRI-based diagnosis in transgenic mouse models of Parkinson's and Huntington's diseases. 2019 , 1707, 141-153	22
372	Biocompatible nanoparticles and vesicular systems in transdermal drug delivery for various skin diseases. 2019 , 555, 49-62	104
371	Biodistribution and Cellular Interaction of Hybrid Nanostructures. 2019 , 63-86	1
370	Natural Salep/PEGylated Chitosan Double Layer toward a More Sustainable pH-Responsive Magnetite Nanocarrier for Targeted Delivery of DOX and Hyperthermia Application. 2019 , 2, 853-866	7
369	Conjugation of carbon coated-iron nanoparticles with biomolecules for NMR-based assay. 2019 , 176, 256-264	16
368	In vivo MRI assessment of bioactive magnetic iron oxide/human serum albumin nanoparticle delivery into the posterior segment of the eye in a rat model of retinal degeneration. 2019 , 17, 3	20
367	Enhanced specific loss power from Resovist achieved by aligning magnetic easy axes of nanoparticles for hyperthermia. 2019 , 473, 148-154	25
366	Deciphering magnetic hyperthermia properties of compositionally and morphologically modulated FeNi nanoparticles using first-order reversal curve analysis. 2019 , 30, 025707	5
365	PLD fabrication of oriented nanowires in magnetic field. 2019 , 471, 368-374	11
364	Assessment of oxidative damage induced by iron oxide nanoparticles on different nervous system cells. 2019 , 845, 402989	22
363	Estimating saturation magnetization of superparamagnetic nanoparticles in liquid phase. 2019 , 471, 394-399	4

362	Technobiology's Enabler: The Magnetoelectric Nanoparticle. 2019 , 9,	7
361	Magnetic Targeted Drug Delivery to the Human Eye Retina: An Optimization Methodology. 2019 , 3, 3-8	5
360	Nanoengineered biomaterials for retinal repair. 2019 , 215-264	3
359	Magnetic Fe ₃ O ₄ -chitosan micro- and nanoparticles for wastewater treatment. 2019 , 37, 732-740	14
358	Cobalt doped magnetite nanoparticles: Synthesis, characterization, optimization and suitability evaluations for magnetic hyperthermia applications. 2020 , 116, 113759	22
357	Automated Control of Magnetic Spore-Based Microrobot Using Fluorescence Imaging for Targeted Delivery With Cellular Resolution. 2020 , 17, 490-501	30
356	Delivery of erlotinib for enhanced cancer treatment: An update review on particulate systems. 2020 , 55, 101348	7
355	Targeted and Controlled Drug Delivery to a Rat Model of Heart Failure Through a Magnetic Nanocomposite. 2020 , 48, 709-721	6
354	A computational model for suspensions of motile micro-organisms in the flow of ferrofluid. 2020 , 298, 112033	30
353	Manganese-Based Functional Nanoplatforms: Nanosynthetic Construction, Physiochemical Property, and Theranostic Applicability. 2020 , 30, 1907066	49
352	Investigation on trajectories and capture of magnetic drug carrier nanoparticles after injection into a direct vessel. 2020 , 497, 166065	12
351	A simplified mathematical study of thermochemical preparation of particle oxide under counterflow configuration for use in biomedical applications. 2020 , 139, 2769-2779	4
350	Colloidal magnetic metal oxide nanocrystals and their applications. 2020 , 289-335	3
349	In-flight plasma modification of nanoparticles produced by means of gas aggregation sources as an effective route for the synthesis of core-satellite Ag/plasma polymer nanoparticles. 2020 , 62, 014005	3
348	System for Living ROMP of a Paramagnetic FeCl ₄ ⁻ Based Ionic Liquid Monomer: Direct Synthesis of Magnetically Responsive Block Copolymers. 2020 , 9, 140-145	4
347	Manganese behavior in hydroxyapatite crystals revealed by X-ray difference Fourier maps. 2020 , 46, 10585-10597	2
346	Lysine as Size-Control Additive in a Bioinspired Synthesis of Pure Superparamagnetic Magnetite Nanoparticles. 2020 , 20, 533-542	5
345	Temperature and pH sensitive multi-functional magnetic nanocomposite for the controlled delivery of 5-fluorouracil, an anticancer drug. 2020 , 55, 101476	14

344	Protein and Polysaccharide-Based Magnetic Composite Materials for Medical Applications. 2019 , 21,	22
343	Magnetic nanocarriers: Emerging tool for the effective targeted treatment of lung cancer. 2020 , 55, 101493	10
342	State-of-the-art iron-based nanozymes for biocatalytic tumor therapy. 2020 , 5, 202-217	44
341	Fabrication of flexible composite drug films via foldable linkages using electrohydrodynamic printing. 2020 , 108, 110393	16
340	Bio-inspired encapsulation and functionalization of iron oxide nanoparticles for biomedical applications. 2020 , 122, 109371	66
339	Nanoparticles and Vaccine Development. 2020 , 8, 6-21	33
338	Magnetic field assisted preparation of PES-Ni@MWCNTs membrane with enhanced permeability and antifouling performance. 2020 , 243, 125446	38
337	Conclusions and Future Directions of Research on BCI-Based Memory and Learning. 2020 , 239-245	
336	Fibroblast growth factor 2 conjugated superparamagnetic iron oxide nanoparticles (FGF2-SPIONs) ameliorate hepatic stellate cells activation in vitro and acute liver injury in vivo. 2020 , 328, 640-652	11
335	Nanostructured functionalized magnetic platforms for the sustained delivery of cisplatin: Synthesis, characterization and in vitro cytotoxicity evaluation. 2020 , 213, 111258	4
334	Green synthesis of controlled size gold and silver nanoparticles using antioxidant as capping and reducing agent. 2020 , 39, 100322	15
333	Potential Toxicity of Iron Oxide Magnetic Nanoparticles: A Review. 2020 , 25,	99
332	Manganese Ferrite Nanoparticles (MnFeO): Size Dependence for Hyperthermia and Negative/Positive Contrast Enhancement in MRI. 2020 , 10,	29
331	Core-shell nanostructures: perspectives towards drug delivery applications. 2020 ,	61
330	Magnetic Nanoparticles for Biomedical Purposes: Modern Trends and Prospects. 2020 , 6, 30	34
329	Biosynthesis and characterization of nano magnetic hydroxyapatite (nMHAp): An accelerated approach using simulated body fluid for biomedical applications. 2020 , 46, 27866-27876	6
328	Superparamagnetic Nanoparticles with Mesoporous Structure Prepared through Hydrothermal Technique. 2020 , 1000, 203-209	0
327	Prospects on Nano-Based Platforms for Antimicrobial Photodynamic Therapy Against Oral Biofilms. 2020 , 38, 481-496	10

326	pH-Sensitive magnetite mesoporous silica nanocomposites for controlled drug delivery and hyperthermia.. 2020 , 10, 39008-39016	14
325	Mesoporous Magnetite Nanoclusters as Efficient Nanocarriers for Paclitaxel Delivery. 2020 , 5, 9261-9268	2
324	Nanoformulation Design Including MamC-Mediated Biomimetic Nanoparticles Allows the Simultaneous Application of Targeted Drug Delivery and Magnetic Hyperthermia. 2020 , 12,	6
323	Nanoparticle-Based Strategies to Combat COVID-19. 2020 , 3, 8557-8580	90
322	Improving Tumor Retention of Effector Cells in Adoptive Cell Transfer Therapies by Magnetic Targeting. 2020 , 12,	5
321	In Vivo Computing Strategies for Tumor Sensitization and Targeting. 2020 , PP,	0
320	Multifunctional Properties of Binary Polyrhodanine Manganese Ferrite Nanohybrids-From the Energy Converters to Biological Activity. 2020 , 12,	4
319	Folate modified zinc ferrite nano-hollowspheres for drug delivery and intrinsic fluorescence. 2020 ,	0
318	Synthesis of iron oxide nanoparticles for hyperthermia application: effect of ultrasonic irradiation assisted co-precipitation route. 2020 , 11, 025001	6
317	Bilayer Hydrogel Sheet-Type Intraocular Microrobot for Drug Delivery and Magnetic Nanoparticles Retrieval. 2020 , 9, e2000118	21
316	Bacteriochlorins and their metal complexes as NIR-absorbing photosensitizers: properties, mechanisms, and applications. 2020 , 416, 213340	41
315	Irregularly Shaped Iron Nitride Nanoparticles as a Potential Candidate for Biomedical Applications: From Synthesis to Characterization. 2020 , 5, 11756-11767	8
314	Nanotechnology-Based Strategies to Develop New Anticancer Therapies. 2020 , 10,	16
313	Magnetic nanoparticles: drug delivery and bioimaging applications. 2020 , 189-213	14
312	Highly monodisperse and colloidal stable of L-serine capped magnetite nanoparticles synthesized via sonochemistry assisted co-precipitation method. 2020 , 11, 025012	6
311	Doxorubicin-Conjugated Iron Oxide Nanoparticles: Surface Engineering and Biomedical Investigation. 2020 , 85, 1156-1163	7
310	Magnetism in drug delivery: The marvels of iron oxides and substituted ferrites nanoparticles. 2020 , 28, 876-887	11
309	Small Molecule KRAS Inhibitors: The Future for Targeted Pancreatic Cancer Therapy?. 2020 , 12,	17

308	Magnetic Nanoparticles Coated with ()-9-Acetoxystearic Acid for Biomedical Applications. 2020 , 5, 12707-12715	
307	Synthesis of Eu(III) fabricated spinel ferrite based surface modified hybrid nanocomposite: Study of catalytic activity towards the facile synthesis of tetrahydrobenzo[b]pyrans. 2020 , 1219, 128598	7
306	Application of magnetic electrospun polyvinyl alcohol/collagen nanofibres for drug delivery systems. 2020 , 1-7	4
305	Enhancement in Oral Absorption of Ceftriaxone by Highly Functionalized Magnetic Iron Oxide Nanoparticles. 2020 , 12,	8
304	Heterogeneous SO ₃ H@Fe ₃ O ₄ magnetic nanocatalyst as an efficient and reusable medium for the synthesis of 3,3'-(arylmethylene)-bis-(4-hydroxycoumarin), bis-(indolyl)-methane, and 1,8-dioxo-octahydroxanthene derivatives. 2020 , 67, 2129-2148	3
303	NiCu-silica nanoparticles as a potential drug delivery system. 2020 , 1	1
302	Nanosilver loaded oxide nanoparticles for antibacterial application. 2020 , 445-458	2
301	Recent Advances on Magnetic Sensitive Hydrogels in Tissue Engineering. 2020 , 8, 124	46
300	Engineering red-emitting multi-functional nanocapsules for magnetic tumour targeting and imaging. 2020 , 8, 2590-2599	4
299	Biodegradable MnFe-hydroxide nanocapsules to enable multi-therapeutics delivery and hypoxia-modulated tumor treatment. 2020 , 8, 3929-3938	5
298	. 2020 , 1-1	5
297	Poly[oligo(ethylene glycol) methacrylate]--poly[(vinyl benzyl trimethylammonium chloride)] Based Multifunctional Hybrid Nanostructures Encapsulating Magnetic Nanoparticles and DNA. 2020 , 12,	6
296	Cancer treatment by magneto-mechanical effect of particles, a review. 2020 , 2, 3632-3655	23
295	Effects of polydopamine-passivation on the optical properties of carbon dots and its potential use in vivo. 2020 , 22, 16595-16605	9
294	Correlating cation distribution with the structural and magnetic properties of Co _{0.5} Zn _{0.5} Al _x Fe _{2-2x} O ₄ nanoferrites. 2020 , 126, 1	3
293	Stimuli-Responsive Polymeric Nanocarriers for Drug Delivery, Imaging, and Theragnosis. 2020 , 12,	138
292	Sustainable drug delivery systems through green nanotechnology. 2020 , 61-89	3
291	Metallic nanoparticulate delivery systems. 2020 , 279-328	2

290	Metal oxide nanoparticles in biomedical applications. 2020 , 233-251	8
289	Super-hydrophobic Fe ₃ O ₄ @SiO ₂ @MPS nanoparticles for oil remediation: The influence of pH and concentration on clustering phenomenon and oil sorption. 2020 , 315, 113709	5
288	An easy-to-prepare microshotgun for efficient transmembrane delivery by powering nanoparticles. 2020 , 321, 119-131	7
287	Magnetic fluid hyperthermia simulations in evaluation of SAR calculation methods. 2020 , 71, 39-52	8
286	A Modular Millifluidic Platform for the Synthesis of Iron Oxide Nanoparticles with Control over Dissolved Gas and Flow Configuration. 2020 , 13,	11
285	Doxorubicin Loaded Magnetosensitive Water-Soluble Nanogel Based on NIPAM and Iron (3+) Containing Nanoparticles. 2020 , 389, 1900072	1
284	Synthesis of 1H-Isochromenes, 4H-Chromenes and Orthoaminocarbonitrile Tetrahydronaphthalenes by CaMgFe ₂ O ₄ Base Nanocatalyst. 2020 , 5, 2627-2633	5
283	Two-dimensional manipulation of a magnetic robot using a triad of electromagnetic coils. 2020 , 10, 015003	2
282	Nanotherapeutics in glioma management: Advances and future perspectives. 2020 , 57, 101626	4
281	Yttrium-Doped Iron Oxide Nanoparticles for Magnetic Hyperthermia Applications. 2020 , 124, 6871-6883	22
280	Recent advancements in brain tumor targeting using magnetic nanoparticles. 2020 , 11, 97-112	9
279	and experiments to evaluate the biodistribution and cellular toxicity of ultrasmall iron oxide nanoparticles potentially used as oral iron supplements. 2020 , 14, 388-403	22
278	Generation of paramagnetic centers in carboxylated materials via coordination attachment of diamagnetic tetraazamacrocyclic complexes of nickel(II). 2020 , 55, 5364-5377	1
277	Identification of trapping in a peristaltic flow: A new approach using dynamical system theory. 2020 , 32, 011901	10
276	Biodistribution, biocompatibility and targeted accumulation of magnetic nanoporous silica nanoparticles as drug carrier in orthopedics. 2020 , 18, 14	14
275	Magnetic Vortex and Hyperthermia Suppression in Multigrain Iron Oxide Nanorings. 2020 , 10, 787	6
274	An easily prepared ferrofluid with high power absorption density and low cytotoxicity for biomedical applications. 2020 , 245, 122752	5
273	Comparative release kinetics of small drugs (ibuprofen and acetaminophen) from multifunctional mesoporous silica nanoparticles. 2020 , 8, 2096-2106	30

272	Method screening for conjugation of the small molecules onto the vinyl-coated Fe ₃ O ₄ /silica nanoparticles: highlighting the efficiency of ultrasonication. 2020 , 7, 015067	30
271	Brønsted Acidic Dicationic Ionic Liquid Immobilized on Fe ₃ O ₄ @SiO ₂ Nanoparticles as an Efficient and Magnetically Separable Catalyst for the Synthesis of Bispirazoles. 2020 , 5, 1760-1766	23
270	Simultaneous Monitoring of Multi-Enzyme Activity and Concentration in Tumor Using a Triply Labeled Fluorescent In Vivo Imaging Probe. 2020 , 21,	3
269	Nanowire transducers for biomedical applications. 2020 , 697-713	1
268	Recent advances in theranostic polymeric nanoparticles for cancer treatment: A review. 2020 , 582, 119314	52
267	Novel nanocarrier of miconazole based on chitosan-coated iron oxide nanoparticles as a nanotherapy to fight Candida biofilms. 2020 , 192, 111080	24
266	Modeling and simulation of blood flow with magnetic nanoparticles as carrier for targeted drug delivery in the stenosed artery. 2020 , 83, 42-57	18
265	Encapsulation for Cancer Therapy. 2020 , 25,	22
264	A three dimensional numerical investigation on trajectories and capture of magnetic drug carrier nanoparticles in a Y-shaped vessel. 2021 , 61, 102207	1
263	Surface enhanced Raman studies of heat-treated silver nanowire films. 2021 , 39, 1356-1361	0
262	Design and engineering of magneto-responsive devices for cancer theranostics: Nano to macro perspective. 2021 , 116, 100742	17
261	Effects of buoyant and Saffman lift force on magnetic drug targeting in microvessel in the presence of inertia. 2021 , 133, 104099	2
260	Nanorobots-Assisted Natural Computation for Multifocal Tumor Sensitization and Targeting. 2021 , 20, 154-165	3
259	Carriers based on poly-3-hydroxyalkanoates containing nanomagnetite to trigger hormone release. 2021 , 166, 448-458	1
258	Optimization of a NdFeB permanent magnet configuration for in-vivo drug delivery experiments. 2021 , 522, 167491	1
257	Surface-modified polymeric nanoparticles for drug delivery to cancer cells. 2021 , 18, 1-24	11
256	Advanced materials and technologies for supercapacitors used in energy conversion and storage: a review. 2021 , 19, 375-439	100
255	Terahertz Antenna Technology for Imaging and Sensing Applications. 2021 , 75-102	0

254 Polymer and Ceramic Nanotechnology for Biomedical Applications. **2021**, 1357-1375

253 Iron Oxide-Based Polymeric Magnetic Nanoparticles for Drug and Gene Delivery: In Vitro and In Vivo Applications in Cancer. **2021**, 1271-1292

2

252 Magnetically responsive delivery into tumor environment. **2021**, 59-87

251 Cytotoxicity and biocompatibility of advanced green materials. **2021**, 705-722

250 Magnetic hybrid nanoparticles for drug delivery. **2021**, 319-342

0

249 Magnetic nanoparticle-polymer nanohybrids. **2021**, 183-208

248 Automated in-vivo transportation control of biological cells using robot-aided optical tweezers. **2021**, 93-113

247 Colloidal Stability and Concentration Effects on Nanoparticle Heat Delivery for Magnetic Fluid Hyperthermia. **2021**, 37, 1129-1140

8

246 Magnetic-based sensing. **2021**, 149-184

0

245 Multi-functionalized micro-helical capsule robots with superior loading and releasing capabilities. **2021**, 9, 1441-1451

6

244 Composites Based on Shape Memory Materials. **2021**, 603-637

0

243 Hyaluronic acid-magnetic nanocomposites for gene delivery. **2021**, 311-323

0

242 . **2021**, 23, 1494-1545

13

241 Polymeric nanomaterials in neuroscience. **2021**, 291-307

240 Ex Vivo Systems to Study Chondrogenic Differentiation and Cartilage Integration. **2021**, 6,

5

239 A Magnetically Actuated Novel Robotic Capsule for Site-Specific Drug Delivery Inside the Gastrointestinal Tract. **2021**, 1-11

0

238 Green, scalable, low cost and reproducible flow synthesis of biocompatible PEG-functionalized iron oxide nanoparticles. **2021**, 6, 1961-1973

5

237 Magnetic Nanocomposite Hydrogels for Tissue Engineering: Design Concepts and Remote Actuation Strategies to Control Cell Fate. **2021**, 15, 175-209

34

236	Microfluidic-based fabrication and characterization of drug-loaded PLGA magnetic microspheres with tunable shell thickness. 2021 , 28, 692-699	3
235	On risks and benefits of nanotechnology: the case of medical applications. 2021 , 235-250	1
234	Symmetry breaking propulsion of magnetic microspheres in nonlinearly viscoelastic fluids. 2021 , 12, 1116	7
233	CLyTA-DAAO Chimeric Enzyme Bound to Magnetic Nanoparticles. A New Therapeutical Approach for Cancer Patients?. 2021 , 22,	3
232	Fe(II) and Tannic Acid-Cloaked MOF as Carrier of Artemisinin for Supply of Ferrous Ions to Enhance Treatment of Triple-Negative Breast Cancer. 2021 , 16, 37	14
231	Therapeutic nanostructures and nanotoxicity. 2021 , 41, 1494-1517	4
230	The Effect of Addition of F3O4 and Sintering Temperature on Properties of the Magnetite/Hydroxyapatite Particles Produced through the Coprecipitation Technique. 2021 , 1053, 012018	
229	Thermal Traits of MNPs under High-Frequency Magnetic Fields: Disentangling the Effect of Size and Coating. 2021 , 11,	0
228	Synergic effects of nanoparticles-mediated hyperthermia in radiotherapy/chemotherapy of cancer. 2021 , 269, 119020	29
227	Use of Super Paramagnetic Iron Oxide Nanoparticles as Drug Carriers in Brain and Ear: State of the Art and Challenges. 2021 , 11,	10
226	Polymer Coated Iron Nanoparticles: Radiolabeling & In vitro Studies. 2021 , 14, 37-45	0
225	Insights into colloidal nanoparticle-protein corona interactions for nanomedicine applications. 2021 , 289, 102366	16
224	Investigation of cytotoxicity of superparamagnetic KFeO ₂ nanoparticles on MCF-7 cell lines for biomedical applications. 2021 , 32, 11232-11242	1
223	On-Demand Release of Drug from Magnetic Nanoparticle-Loaded Alginate Beads. 2021 , 2021, 5576283	1
222	Efficient conjugation of anti-HBsAg antibody to modified core-shell magnetic nanoparticles (FeO@SiO ₂ /NH ₂). 2021 , 11, 237-244	0
221	A comprehensive study on 2D, 3D and solid tumor environment to explore a multifunctional biogenic nanoconjugate. 2021 , 11, 8721	0
220	The Toxic Side of Nanotechnology: An Insight into Hazards to Health and the Ecosystem. 2021 , 13,	0
219	Bare Iron Oxide Nanoparticles as Drug Delivery Carrier for the Short Cationic Peptide Lasioglossin. 2021 , 14,	4

218	Chitosan Functionalized Magnetic Nanoparticles to Provide Neural Regeneration and Recovery after Experimental Model Induced Peripheral Nerve Injury. 2021 , 11,	5
217	A theoretical model for the delivery of magnetic nanoparticles through a blood vessel under the influence of a magnetic field. 2021 ,	
216	Noyes-Whitney Dissolution Model-Based pH-Sensitive Slow Release of Paclitaxel (Taxol) from Human Hair-Derived Keratin Microparticle Carriers. 2021 , 2021, 6657482	2
215	Magneto-Plasmonic Nanoparticle Grid Biosensor with Enhanced Raman Scattering and Electrochemical Transduction for the Development of Nanocarriers for Targeted Delivery of Protected Anticancer Drugs. 2021 , 11,	1
214	Advancing Photodynamic Therapy for Endodontic Disinfection with Nanoparticles: Present Evidence and Upcoming Approaches. 2021 , 11, 4759	4
213	Magnetic Nanodiscs-A New Promising Tool for Microsurgery of Malignant Neoplasms. 2021 , 11,	1
212	Toward Quantitative Bio-sensing with Nitrogen-Vacancy Center in Diamond. 2021 , 6, 2077-2107	16
211	Kanser Tedavi Yöntemi İçin Manyetik Alan Deseni Oluşturulması ve Mikroilaçmci Tabanlı Manyetik Alan Haritasının Sistemi Tasarımı121-129	
210	A comparative study on the effects of increase in injection sites on the magnetic nanoparticles hyperthermia. 2021 , 63, 102542	6
209	Chitosan, Polyethylene Glycol and Polyvinyl Alcohol Modified MgFeO Ferrite Magnetic Nanoparticles in Doxorubicin Delivery: A Comparative Study In Vitro. 2021 , 26,	11
208	An innovative direct non-aqueous method for the development of Co doped Ni-Zn ferrite nanoparticles. 2021 , 27, 102238	1
207	Molecular Perspective of Nanoparticle Mediated Therapeutic Targeting in Breast Cancer: An Odyssey of Endoplasmic Reticulum Unfolded Protein Response (UPR) and Beyond. 2021 , 9,	2
206	In vitro sustained release of gallic acid from the size-controlled PEGylated magnetite nanoparticles. 2021 , 75, 5339-5352	0
205	Effective gene delivery into primary dendritic cells using synthesized PDMAEMA-iron oxide nanocubes. 2021 , 20, 100481	1
204	Spinel Iron Oxide by the Co-Precipitation Method: Effect of the Reaction Atmosphere. 2021 , 11, 5433	2
203	Magnetic Nanoparticles in Biology and Medicine: Past, Present, and Future Trends. 2021 , 13,	28
202	Recent trends in drug-delivery systems for the treatment of diabetic retinopathy and associated fibrosis. 2021 , 173, 439-460	3
201	Evaluation of potential immunotoxic effects of iron oxide nanoparticles (IONPs) on antioxidant capacity, immune responses and tissue bioaccumulation in common carp (Cyprinus carpio). 2021 , 244, 109005	5

- 200 Calcium Phosphate-Based Bioceramics in the Treatment of Osteosarcoma: Drug Delivery Composites and Magnetic Hyperthermia Agents.. **2021**, 3, 700266 2
- 199 The impact of cobalt insertion on the structural and magnetic properties of nonstoichiometric ZnCo Fe_{1.7}O₄ ($x \approx 0.3$) nanoferrites. **2021**, 269, 115151 3
- 198 Polymeric Nanocomposites for Cancer-Targeted Drug Delivery. **2022**, 241-270 1
- 197 Nanomagnetic approach applied to microalgae biomass harvesting: advances, gaps, and perspectives. **2021**, 28, 44795-44811 3
- 196 An Introduction to Magnetic Nanoparticles. **2021**, 1-34
- 195 Magnetic Nanoparticles in Nanomedicine. **2021**, 35-58
- 194 Exponential evolution mechanism for in vivo computation. **2021**, 65, 100931 0
- 193 Preparation and Characterization of Palladium Derivate-Loaded Micelle Formulation in Vitro as an Innovative Therapy Option against Non-Small Cell Lung Cancer Cells. **2021**, 18, e2100402 0
- 192 Improving Magneto-thermal Energy Conversion Efficiency of Magnetic Fluids Through External DC Magnetic Field Induced Orientational Ordering. **2021**, 250-271
- 191 Magnetic nanoparticles: From the nanostructure to the physical properties. **2021**, 543, 168594 10
- 190 Transport and lymphatic uptake of monoclonal antibodies after subcutaneous injection. **2022**, 139, 104228 4
- 189 Assessing the Biocompatibility of Multi-Anchored Glycoconjugate Functionalized Iron Oxide Nanoparticles in a Normal Human Colon Cell Line CCD-18Co. **2021**, 11, 0
- 188 A comparative study of catalytic activity on iron-based carbon nanostructured catalysts with Pd loading: Using the BoxBehnken design (BBD) method in the SuzukiMiyaura coupling. e6415 1
- 187 Tuning the Cell and Biological Tissue Environment through Magneto-Active Materials. **2021**, 11, 8746 0
- 186 Estimation and association of structural, elastic and magnetic properties of magnesium-nickel-ferrite nanoparticles annealed at different temperatures. **2021**, 272, 115362 0
- 185 Designing magnetic nanoparticles for in vivo applications and understanding their fate inside human body. **2021**, 445, 214082 8
- 184 Devices for drug delivery in the gastrointestinal tract: A review of systems physically interacting with the mucosa for enhanced delivery. **2021**, 177, 113926 7
- 183 Conventional and hybrid nanoparticulate systems for the treatment of hepatocellular carcinoma: An updated review. **2021**, 167, 9-37 4

182	Non-magnetic shell coating of magnetic nanoparticles as key factor of toxicity for cancer cells in a low frequency alternating magnetic field. 2021 , 206, 111931	4
181	Quantum chemical analysis of 5-aminolevulinic acid anticancer drug delivery systems: Carbon nanotube, TiO_2 functionalized carbon nanotube and iron oxide nanoparticle. 2021 , 340, 117182	2
180	Induced magnetization in armchair and Zig-zag CNTs on adsorbing transition metals. 2021 , 538, 168287	
179	Ultra pH-sensitive nanocarrier based on FeO/chitosan/montmorillonite for quercetin delivery. 2021 , 191, 738-745	1
178	Waste plastic derived $\text{Co}_3\text{Fe}_7/\text{CoFe}_2\text{O}_4$ @carbon magnetic nanostructures for efficient dye adsorption. 2021 , 886, 161201	10
177	Preparation of novel $\text{CaMoO}_4:\text{Eu}^{3+}$ -MCM-41 nanocomposites and their applications and monitoring as drug release systems. 2021 , 66, 102792	0
176	Magnetism in microfluidics: computational fluid dynamics simulations, mixing, transport, and control of fluids and particles at micro scale. 2022 , 59-98	
175	Lung cancer: Improving efficacy and reducing side effects. 2021 , 351-371	
174	Chapter 20:Important Aspects of Safety, Risk & ELSI of Functionalized Magnetic Nanoparticles for Analytical Purposes. 2021 , 505-526	
173	When metal-organic framework mediated smart drug delivery meets gastrointestinal cancers. 2021 , 9, 3967-3982	5
172	Effect of Material and Population on the Delivery of Nanoparticles to an Atherosclerotic Plaque: A Patient-specific Study. 2021 , 37, 1551-1562	6
171	Magnetic Gelatin Microspheres for Targeted Release of Doxorubicin. 2021 , 24,	0
170	Polymer and Ceramic Nanotechnology for Biomedical Applications. 2021 , 1-20	
169	Chitosan magnetic nanocomposites for gene delivery. 2021 , 279-294	0
168	Dimercaptosuccinic Acid-Coated Magnetic Nanoparticles as a Localized Delivery System in Cancer Immunotherapy: Tumor Targeting, In Vivo Detection and Quantification, Long-term Biodistribution, Biotransformation and Toxicity. 131-158	1
167	Recent Advances in Host-Guest Self-Assembled Cyclodextrin Carriers: Implications for Responsive Drug Delivery and Biomedical Engineering. 2020 , 30, 1909049	116
166	Targeted Liposomes and Micelles as Carriers for Cancer Therapy. 2014 , 95-122	0
165	Magnetism of Small Particles. 2017 , 71-124	1

164	Nanocomposites as Bone Implant Material. 2013 , 941-976	3
163	Design and Simulation of a 3D Actuation System for Magnetic Nano-Particles Delivery System. 2013 , 177-187	10
162	Engineered nanoparticles induced brush border disruption in a human model of the intestinal epithelium. 2014 , 811, 55-72	15
161	Green Nanoparticles for Biomedical and Bioengineering Applications. 2020 , 225-262	1
160	Imaging the delivery of drug-loaded, iron-stabilized micelles. 2017 , 13, 1353-1362	11
159	Metal Nanocrystals. 2020 ,	1
158	CHAPTER 6:Magnetically-responsive DDS. 145-162	1
157	CHAPTER 14:Magnetic-responsive Nanoparticles for Drug Delivery. 2013 , 32-62	8
156	Investigation of magnetically driven passage of magnetic nanoparticles through eye tissues for magnetic drug targeting. 2020 , 31, 495101	3
155	Dextran-coated superparamagnetic nanoparticles modified with folate for targeted drug delivery of camptothecin. 2020 , 11, 045009	15
154	UV-nil based fabrication of plasmon-magnetic nanoparticles for biomolecular sensing. 2018 ,	2
153	Mask lithography of 2D fluorescent magneto-phonic microstructures for biomedical and quantum applications. 2019 ,	1
152	Magnetic Nanoparticles for In Vitro Biological and Medical Applications. 2012 , 215-242	7
151	The Potential of Magnetic Nanoparticles for Diagnosis and Treatment of Cancer Based on Body Magnetic Field and Organ-on-the-Chip. 2019 , 9, 360-373	15
150	Trends in Nanomedicines for Cancer Treatment. 2020 , 26, 3579-3600	4
149	Review on Targeted Drug Delivery Carriers Used in Nanobiomedical Applications. 2019 , 15, 382-397	11
148	Nanotechnology: Nanomedicine, Nanotoxicity and Future Challenges. 2018 , 9, 64-78	15
147	Inhalable Nanostructures for Lung Cancer Treatment: Progress and Challenges. 2019 , 9, 4-29	2

146	Solvent-free synthesis of 1-amidoalkyl-2-naphthol and 3-amino-1-phenyl-1H benzo[f]chromene-2-carbonitrile derivatives by Fe ₃ O ₄ @enamine-B(OSO ₃ H) ₂ as an efficient and novel heterogeneous magnetic nanostructure catalyst. 2020 , 22, 9-19	7
145	Review on using nanofluids for heat transfer enhancement in nuclear power plants. 2018 , 83, 426-438	1
144	SYNTHESIS AND CRYSTALLOCHEMICAL PROPERTIES OF Ce-SUBSTITUTED NANOPARTICLES OF MANGANITE (La,Sr)MnO ₃ . 2019 , 85, 17-24	1
143	Biomedical Applications of Reactive Oxygen Species Generation by Metal Nanoparticles. 2020 , 14,	42
142	POLY(L-GLUTAMIC ACID) DENDRON BASED pH SENSITIVE DRUG CARRIER WITH MAGNETIC NANOPARTICLE CORE. 2011 , 011, 679-686	3
141	Recent Advances in Synthesis and Biomedical Applications of Magnetic Nanoparticles. 2017 , 219-249	1
140	Biomimetically Synthesized Aqueous Ferrofluids Having Antibacterial and Anticancer Properties. 2015 , 06, 242-250	2
139	Novel Approach for the Treatment of Cancer: Theranostic Nanomedicine. 2012 , 3, 371-376	21
138	Studies on Aggregated Nanoparticles Steering during Deep Brain Membrane Crossing. 2021 , 11,	
137	Drift of suspended single-domain nanoparticles in a harmonically oscillating gradient magnetic field. 2022 , 55, 045001	0
136	Applications of nanomagnets as dynamical systems: I. 2021 , 33,	2
135	Iron oxide nanoparticles in biological systems: Antibacterial and toxicology perspective. 2021 , 4, 100027	11
134	Synthesis of Tailored Core-Shell Magnetic Microparticles for Intravascular Embolization. 345-352	
133	Numerical Simulations of Ferrofluids for Magnetic Drug Targeting Applications. 2012 , 2, 26-33	
132	Emerging Nanomedicine Approaches for Osteochondral Tissue Regeneration. 39-61	
131	An Adaptive Magnetic Field Source for Magnetic Drug Fixation. 2013 , 1, 20-33	
130	Modified Polysaccharides as Drug Delivery. 2014 , 1-26	1
129	Nanocarriers: Stimuli-Responsive. 5062-5076	

128 Nanomedicine: Review and Perspectives. 5393-5413

127 Applications of Metal Nanoparticles and Nanostructures Fabricated Using Ultrafast Laser Ablation in Liquids. **2016**, 367-421

126 Chapter 10:Nanogels: Stimuli-responsive Drug Delivery Carriers. **2017**, 161-180

125 Magnetic Materials Prepared Using Polyacrylamide Gel Route. **2017**, 509-580

124 Therapeutic Applications of Nanobiomaterials. **2017**, 390-412

123 Nanomedicine: Review and Perspectives. **2017**, 1088-1108

122 Recent Advances in Synthesis and Biomedical Applications of Magnetic Nanoparticles. **2018**, 1424-1447

121 Therapeutic Applications of Nanobiomaterials. **2018**, 1205-1227

0

120 Evaluation of Dispersibility in Liquid and AC Magnetization Properties of Polyion Complex-Coupled Magnetic Nanoparticles. **2018**, 42, 41-48

119 CHAPTER 3:Applications of Magnetic Nanoparticles in Multi-modal Imaging. **2018**, 53-85

1

118 Iron Oxide-Based Polymeric Magnetic Nanoparticles for Drug and Gene Delivery: In Vitro and In Vivo Applications in Cancer. **2019**, 1-22

117 Composites Based on Shape Memory Materials. **2019**, 1-35

116 Nanoparticles in Nanotheranostics Applications. **2019**, 19-40

1

115 Imaging Technology. 117-131

114 Oriented Attachment Crystal Growth Model in Hydrothermal Synthesis of Magnetite (Fe₃O₄) Nanoparticles. **2019**, 1, 15-19

1

113 Evaluation of Intellectual Property Objects in the Nanoindustry Field. **2019**, 48, 599-612

112 Determination of Gluconate Binding Properties on Magnetite Surface and Investigation of Carboxymethylation and Hydrazination Mechanisms of the Gluconated Magnetite Surface: A Computational Study. 169-178

111 Current and future perspectives of multifunctional magnetic nanoparticles based controlled drug delivery systems. **2021**, 67, 102946

4

110	Using kinetic Monte Carlo simulations to design efficient magnetic nanoparticles for clinical hyperthermia. 2021 ,	0
109	Fluorescence Enhancement Method for Enrofloxacin Extraction by CoreShell Magnetic Microspheres. 2020 , 73, 1105	1
108	Fluorescent Nanotechnology: An Evolution in Optical Sensors. 2020 , 17,	1
107	Electromagnetic Configurations in Steering Micro/Nano Robots inside Y-shaped Blood Vessel. 2020 ,	0
106	Rare-Earth-Doped Ceramic Nanoparticles for Transparency in the Biomedical Field. 2021 , 109-136	
105	Functional nanomaterial in energy and environmental science. 2020 , 1-23	
104	Future of Nanoparticles in the Field of Medicine.	
103	Clinical Milestones in Nanotherapeutics: Current Status and Future Prospects. 2021 , 194-245	
102	Pharmaceutical Aspects of Nanocarriers for Smart Anticancer Therapy. 2021 , 13,	2
101	Drug Delivery Systems Based on Modified Polysaccharides: Synthesis and Characterization. 2021 , 2207, 151-161	1
100	Preparation of modified SrAl _{1.3} Fe _{10.7} O ₁₉ nanostructures and evaluation of size influence on its optical and magnetic properties. 2020 , 15, 759-763	
99	Magnetic Nanoparticles as Delivery Systems to Penetrate the Blood-Brain Barrier. 2021 , 173-208	1
98	Effect of Iron/Titania Based Nanomaterials on the Dielectric Properties of Mineral oil, Natural and Synthetic Esters as Transformers Insulating Fluid. 2021 , 1-1	2
97	Bridging micro/nano-platform and airway allergy intervention. 2021 , 341, 364-382	2
96	Iron Oxide Nanoparticles: Physicochemical Characteristics and Historical Developments to Commercialization for Potential Technological Applications. 2021 ,	3
95	Emerging Application of Magnetic Nanoparticles for Diagnosis and Treatment of Cancer. 2021 , 13,	8
94	Nanocomposites in 3D Bioprinting for Engineering Conductive and Stimuli-Responsive Constructs Mimicking Electrically Sensitive Tissue. 2100108	3
93	Surface Chemistry and Properties of Magnetic Nanoparticles. 2021 , 31-44	1

92 Synthesis and Processing of Magnetic-Based Nanomaterials for Biomedical Applications. **2022**, 659-714

91 Evidence of Translocation of Oral Zn Doped Magnetite Nanoparticles Across the Small Intestinal Wall of Mice and Deposition in Spleen: Unique Advantage in Biomedical Applications.. **2020**, 3, 7919-7929 0

90 Magnetic Nanoparticles for Image-Guided Drug Delivery. **2021**, 45-71 0

89 Vesicular nanocarrier based stimuli-responsive drug delivery systems. **2022**, 61-86

88 Multifunctional Cellular Targeting, Molecular Delivery, and Imaging by Integrated Mesoporous-Silica with Optical Nanocrescent Antenna: MONA.. **2022**, 7

87 Magnetic Nanostructures: Rational Design and Fabrication Strategies toward Diverse Applications.. **2022**, 5

86 Continuous Flow-Assisted Polyol Synthesis of Citric Acid Functionalized Iron Oxide Nanoparticles. **2022**, 35, 615-623 0

85 Microfluidic mechanoporation for cellular delivery and analysis.. **2022**, 13, 100193 3

84 Modeling of adsorption and release kinetics of methotrexate from thermo/magnetic responsive CoFe₂O₄/BaTiO₃, CoFe₂O₄/Bi₄Ti₃O₁₂ and Fe₃O₄/BaTiO₃ core-shell magnetoelectric nanoparticles functionalized with PNIPAm. **2022**, 68, 103121 1

83 Graphene-encapsulated magnetic nanoparticles for safe and steady delivery of ferulic acid in diabetic mice. **2022**, 435, 134466 0

82 Smart poly(amidoamine) dendron-functionalized magnetic graphene oxide for cancer therapy. **2022**, 46, 5052-5064 0

81 Efficacy of surface-functionalized Mg Co FeO (0 \leq \leq 0.1) for hyperthermia and MR imaging as a contrast agent.. **2022**, 12, 7835-7849 0

80 Surface functionalization of magnetic nanoparticles: potentials for biomedical applications. **2022**, 237-253

79 Smart and intelligent vehicles for drug delivery: Theranostic nanorobots. **2022**, 541-564

78 Real-Time Observation and Analysis of Magnetomechanical Actuation of Magnetic Nanoparticles in Cells.. **2022**, 0

77 Helminth Eggs as a Magnetic Biomaterial: Introducing a Recognition Probe.. **2022**, 9, 797304

76 Nanotechnology Applications in Biomedical Systems. **2022**, 07, 0

75 Amphiphilic P(OEGMA-co-DIPAEMA) Hyperbranched Copolymer/Magnetic Nanoparticle Hybrid Nanostructures by Co-Assembly. **2022**, 2, 53-68 0

74	Fe O @Au@Cu S Heterostructures Designed for Tri-Modal Therapy: Photo- Magnetic Hyperthermia and Cu Radio-Insertion.. 2022 , e2200174	1
73	Aminopropyltriethoxysilane (APTES)-Modified Nanohydroxyapatite (nHAp) Incorporated with Iron Oxide (IO) Nanoparticles Promotes Early Osteogenesis, Reduces Inflammation and Inhibits Osteoclast Activity.. 2022 , 15,	1
72	Hematobiochemical, Oxidative Stress, and Histopathological Mediated Toxicity Induced by Nickel Ferrite (NiFeO) Nanoparticles in Rabbits.. 2022 , 2022, 5066167	2
71	Euler-Lagrange numerical simulation of improved magnetic drug delivery in a three-dimensional CT-based carotid artery bifurcation.. 2022 , 219, 106778	2
70	Detection of magnetic force fields at macroscopic distances with a micromechanical cantilever oscillator. 2022 , 340, 113537	
69	Ferroferric oxide loaded near-infrared triggered photothermal microneedle patch for controlled drug release.. 2022 , 617, 718-729	1
68	Evaluation of Antibacterial Properties of Magnetic Iron Oxide Nanoparticles Synthesized using Echinops Persicus Extract Coated with Chloramphenicol. 2021 , 29, 59-71	
67	Cyclodextrin-Modified Nanomaterials for Drug Delivery: Classification and Advances in Controlled Release and Bioavailability.. 2021 , 13,	9
66	Preparation and Characterization of Enzyme-immobilized Fluorescent Magnetic Iron Oxide Nanoparticles for the Detection of Glucose and Urea. 2021 , 36, 296-306	
65	Magnetization reversal in chemically synthesized chains of permalloy nanospheres. 2022 , 128, 1	0
64	Bioactive Keratin and Fibroin Nanoparticles: An Overview of Their Preparation Strategies.. 2022 , 12,	1
63	Targeting tumor cells using magnetic nanoparticles B feasibility study in animal models. 1-10	0
62	Therapeutic Applications of Magnetotactic Bacteria and Magnetosomes: A Review Emphasizing on the Cancer Treatment.. 2022 , 10, 789016	1
61	Peptide-functionalised magnetic silk nanoparticles produced by a swirl mixer for enhanced anticancer activity of ASC-J9. 2022 , 112549	5
60	Determination of the effective anisotropy of magnetite/maghemite nanoparticles from Mössbauer effect spectra.	0
59	Synthesis of Iron Oxide-Armored Latex Particles by Pickering Emulsion Polymerization Using 2-Acrylamido-2-methyl-1-propane Sulfonic Acid as an Auxiliary Comonomer.	0
58	In situ tailoring of carbon dots-metal ferrite nanohybrid as multipurpose marker agent of HeLa cancer cells.	0
57	Molecular dynamics simulation reveals the reliability of Brij-58 nanomicellar drug delivery systems for flurbiprofen. 2022 , 360, 119496	1

- 56 Impact of Magnetite Nanoparticles Coated with Aspartic Acid on the Growth, Antioxidant Enzymes Activity and Chlorophyll Content of Maize. **2022**, 11, 1193 0
- 55 Real-time changes in the AC magnetic susceptibility of reagents during immunomagnetic reduction assays. **2022**, 12, 065220 0
- 54 Pharmacokinetics of magnetic iron oxide nanoparticles for medical applications. **2022**, 20, 3
- 53 Magnetic solid-phase extraction of norfloxacin by core-shell magnetic nanoparticles. 1-12 0
- 52 A review on nanoparticles categorization, characterization and applications in drug delivery systems. **2022**, 121, 103407
- 51 Monte Carlo study on size-dependent radiation enhancement effects of spinel ferrite nanoparticles. **2022**, 199, 110364 1
- 50 Mobility of Sub-50 nm Iron Oxide Nanoparticles with Ultrahigh Initial Magnetic Susceptibility in Intact Berea Sandstone at High Salinity. **2022**, 61, 12132-12141
- 49 Recent achievements in nano-based technologies for ocular disease diagnosis and treatment, review and update. **2022**, 20, 4
- 48 Photodegradable and recyclable starch/Fe₃O₄/TiO₂ nanocomposites: feasibility of an approach to reduce the recycling labor cost in plastic waste management.
- 47 Folic acid-decorated PEGylated magnetite nanoparticles as efficient drug carriers to tumor cells overexpressing folic acid receptor. **2022**, 625, 122064 1
- 46 Synthesis, physical properties, and biomedical applications of magnetic nanoparticles: a review. 0
- 45 Nano-Formulation Based Intravesical Drug Delivery Systems: An Overview of Versatile Approaches to Improve Urinary Bladder Diseases. **2022**, 14, 1909 3
- 44 On a highway to the brain: A review on nose-to-brain drug delivery using nanoparticles. **2022**, 29, 101631 5
- 43 Nanoformulations for neurodegenerative disorders. **2022**, 419-439 0
- 42 Therapeutic applications of magnetic nanoparticles: recent advances. 1
- 41 Influence of different waveforms on peristaltic flows: a qualitative investigation. 1-17 0
- 40 Structural, Magnetic, and Magnetothermal Properties of Co_{100-x}Ni_x Nanoparticles for Self-Controlled Hyperthermia. **2022**, 12, 1272 1
- 39 Potential of Dual Drug Delivery Systems: MOF as Hybrid Nanocarrier for Dual Drug Delivery in Cancer Treatment. **2022**, 7, 2

38	Numerical Computation of Hybrid Carbon Nanotubes Flow over a Stretching/Shrinking Vertical Cylinder in Presence of Thermal Radiation and Hydromagnetic. 2022 , 10, 3551	0
37	DFT study on Fe and N decorated graphene as the drug delivery system for Elapachone anticancer drug.	0
36	Surface engineered Fe ₃ O ₄ nanomagnets for pH-responsive delivery of gemcitabine hydrochloride and in-vivo tracking by radiolabeling.	0
35	Mössbauer Spectroscopy with a High Velocity Resolution in the Studies of Nanomaterials. 2022 , 12, 3748	0
34	Cu (II) Complex Stabilized on Fe ₃ O ₄ @SiO ₂ Nanoparticles: An Effective and Recoverable Catalyst for the Preparation of Chromene Derivatives. 1-13	0
33	Role of Iron Oxide (Fe ₂ O ₃) Nanocomposites in Advanced Biomedical Applications: A State-of-the-Art Review. 2022 , 12, 3873	3
32	Three-dimensional investigation of capture efficiency of carrier particles in a Y-shaped vessel considering non-Newtonian models. 2022 , 170130	0
31	Engineered nanoparticles as emerging gene/drug delivery systems targeting the nuclear factor- κ B protein and related signaling pathways in cancer. 2022 , 156, 113932	0
30	Magnetic nanoparticles draw solution for forward osmosis: Current status and future challenges in wastewater treatment. 2022 , 10, 108955	1
29	DNA cleavage using magnetic iron oxide-silica/curcumin core-shell nanocomposite. 2022 , 133556	0
28	Modulating cell signalling in vivo with magnetic nanotransducers. 2022 , 2,	0
27	Combinatorial physical methods for cellular therapy: Towards the future of cellular analysis?. 2023 , 353, 1084-1095	0
26	Engineering core-shell mesoporous silica and Fe ₃ O ₄ @Au nanosystems for targeted cancer therapeutics: a review. 1-29	0
25	Chaotic Model of Brownian Motion in Relation to Drug Delivery Systems Using Ferromagnetic Particles. 2022 , 10, 4791	0
24	Investigation of the Therapeutic Effects of Palbociclib Conjugated Magnetic Nanoparticles on Different Types of Breast Cancer Cell Lines.	0
23	In Vitro and In Vivo Biological Assays of Dextran Coated Iron Oxide Aqueous Magnetic Fluids. 2023 , 15, 177	1
22	Physical Origin of Magnetoelectroporation. 2200523	0
21	Nanorobots: An innovative approach for DNA-based cancer treatment. 2023 , 80, 104173	1

20	Correlation between the composition, structural parameters and magnetic properties of spinel-based functional nanocomposites. 2023 , 33, 100941	2
19	Nanoparticles: Taking a Unique Position in Medicine. 2023 , 13, 574	2
18	Nanotheranostic Approach for Cancer Treatment. 2023 , 1-32	0
17	Aptamers as smart ligands for the development of cancer-targeting nanocarriers. 2023 , 103-139	0
16	Magnetic Microsphere Scaffold-Based Soft Microbots for Targeted Mesenchymal Stem Cell Delivery.	0
15	Biocompatible polymer functionalized magnetic nanoparticles for antimicrobial and anticancer activities. 2023 , 301, 127677	0
14	Review of Smart Materials for Controlled Drug Release. 2020 , 170-192	0
13	The effect of size, shape, coating and functionalization on nuclear relaxation properties in iron oxide core-shell nanoparticles: a brief review of the situation. 2023 , 52, 3551-3562	0
12	An efficient stochastic steering strategy of magnetic particles in vascular networks.	0
11	Nanoparticle-mediated cancer cell therapy: basic science to clinical applications.	0
10	Delivery of Cisplatin Anti-cancer Drug by Si-Decorated Al ₂₄ N ₂₄ Nanocage: DFT Evaluation of Electronic and Structural Features. 2023 , 52, 3281-3290	0
9	Metal-Based Nanoparticles and Their Relevant Consequences on Cytotoxicity Cascade and Induced Oxidative Stress. 2023 , 12, 703	0
8	Core-shell oxide nanoparticles and their biomedical applications. 2023 , 197-232	0
7	Influence of the hierarchical architecture of multi-core iron oxide nanoflowers on their magnetic properties. 2023 , 13,	0
6	Metal and Metal Oxides Nanoparticles and Nanosystems in Anticancer and Antiviral Theragnostic Agents. 2023 , 15, 1181	1
5	Application of Magnetic Nanoparticles in Cancer: Drug Delivery and Therapy. 2023 , 693-717	0
4	Theranostic Approaches for Diagnosis and Treatment of Cancer: An Update. 2023 , 631-662	0
3	Effects of magnet arrangement on the separation behavior of magnetic particles in high-concentration suspensions based on numerical simulations: Magnetic force induced eddies. 1-12	0

- 2 Evaluation of the cytotoxic effect of GaFe₂O₄@Ag magnetic nanocomposite biosynthesized by *Spirulina platensis* on breast cancer cell line and evaluation of BAX, Bcl-2, CASP9 and MMP1 genes expression. ○
- 1 Design and fabrication of magnetic Fe₃O₄-QSM nanoparticles loaded with ciprofloxacin as a potential antibacterial agent. **2023**, 124517 ○