

# Miqin Zhang

## List of Publications by Year in Descending Order

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

200  
papers

28,477  
citations

76  
h-index

168  
g-index

206  
ext. papers

30,868  
ext. citations

9.6  
avg, IF

7.47  
L-index

#	Paper	IF	Citations
200	Chitosan-Crosslinked Low Molecular Weight PEI-Conjugated Iron Oxide Nanoparticle for Safe and Effective DNA Delivery to Breast Cancer Cells.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	3
199	Elevated Asparagine Biosynthesis Drives Brain Tumor Stem Cell Metabolic Plasticity and Resistance to Oxidative Stress. <i>Molecular Cancer Research</i> , <b>2021</b> , 19, 1375-1388	6.6	2
198	Microwave-Assisted Synthesis of Carbon Dot - Iron Oxide Nanoparticles for Fluorescence Imaging and Therapy. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 711534	5.8	2
197	Iron Oxide Nanoparticles as T Contrast Agents for Magnetic Resonance Imaging: Fundamentals, Challenges, Applications, and Prospectives. <i>Advanced Materials</i> , <b>2021</b> , 33, e1906539	24	79
196	A highly selective iron oxide-based imaging nanoparticle for long-term monitoring of drug-induced tumor cell apoptosis. <i>Biomaterials Science</i> , <b>2021</b> , 9, 471-481	7.4	3
195	siRNA nanoparticle suppresses drug-resistant gene and prolongs survival in an orthotopic glioblastoma xenograft mouse model. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007166	15.6	4
194	Inorganic Nanomaterial-Mediated Gene Therapy in Combination with Other Antitumor Treatment Modalities. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007096	15.6	9
193	Recent Progress in the Synergistic Combination of Nanoparticle-Mediated Hyperthermia and Immunotherapy for Treatment of Cancer. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2001415	10.1	14
192	Graphene Quantum Dots and Their Applications in Bioimaging, Biosensing, and Therapy. <i>Advanced Materials</i> , <b>2021</b> , 33, e1904362	24	151
191	Iron oxide nanoparticle targeted chemo-immunotherapy for triple negative breast cancer.. <i>Materials Today</i> , <b>2021</b> , 50, 149-169	21.8	4
190	Injectable Natural Polymer Hydrogels for Treatment of Knee Osteoarthritis. <i>Advanced Healthcare Materials</i> , <b>2021</b> , e2101479	10.1	8
189	Iron oxide nanoparticles for immune cell labeling and cancer immunotherapy. <i>Nanoscale Horizons</i> , <b>2021</b> , 6, 696-717	10.8	5
188	Microfluidic Synthesis of Iron Oxide Nanoparticles. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	11
187	Fundamental electronic structure and multiatomic bonding in 13 biocompatible high-entropy alloys. <i>Npj Computational Materials</i> , <b>2020</b> , 6,	10.9	48
186	Cocaine analogue conjugated magnetic nanoparticles for labeling and imaging dopaminergic neurons. <i>Biomaterials Science</i> , <b>2020</b> , 8, 4166-4175	7.4	1
185	In vivo Serum Enabled Production of Ultrafine Nanotherapeutics for Cancer Treatment. <i>Materials Today</i> , <b>2020</b> , 38, 10-23	21.8	3
184	Single-layer boron-doped graphene quantum dots for contrast-enhanced in vivo T-weighted MRI. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 573-579	10.8	14

183	A Portable Electrospinner for Nanofiber Synthesis and Its Application for Cosmetic Treatment of Alopecia. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	13
182	Theranostic Nanoparticles for RNA-Based Cancer Treatment. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 1496-1506	24.3	50
181	Chitosan-based composite bilayer scaffold as an in vitro osteochondral defect regeneration model. <i>Biomedical Microdevices</i> , <b>2019</b> , 21, 34	3.7	25
180	Biconcave Carbon Nanodisks for Enhanced Drug Accumulation and Chemo-Photothermal Tumor Therapy. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801505	10.1	18
179	Hyaluronic Acid-Coated Aligned Nanofibers for the Promotion of Glioblastoma Migration.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 1088-1097	4.1	4
178	Catalase-Functionalized Iron Oxide Nanoparticles Reverse Hypoxia-Induced Chemotherapeutic Resistance. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900826	10.1	15
177	Time-Resolved MRI Assessment of Convection-Enhanced Delivery by Targeted and Nontargeted Nanoparticles in a Human Glioblastoma Mouse Model. <i>Cancer Research</i> , <b>2019</b> , 79, 4776-4786	10.1	19
176	Paclitaxel-Loaded Iron Oxide Nanoparticles for Targeted Breast Cancer Therapy. <i>Advanced Therapeutics</i> , <b>2019</b> , 2, 1900081	4.9	9
175	Nitrogen and Boron Dual-Doped Graphene Quantum Dots for Near-Infrared Second Window Imaging and Photothermal Therapy. <i>Applied Materials Today</i> , <b>2019</b> , 14, 108-117	6.6	80
174	Crosslinked Chitosan-PEG Hydrogel for Culture of Human Glioblastoma Cell Spheroids and Drug Screening. <i>Advanced Therapeutics</i> , <b>2018</b> , 1, 1800058	4.9	13
173	Fabrication and Characterization of Chitosan-Hyaluronic Acid Scaffolds with Varying Stiffness for Glioblastoma Cell Culture. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1800295	10.1	34
172	Nanotechnology for Treatment of Glioblastoma Multiforme. <i>Journal of Translational Internal Medicine</i> , <b>2018</b> , 6, 128-133	3	32
171	Iron oxide-carbon core-shell nanoparticles for dual-modal imaging-guided photothermal therapy. <i>Journal of Controlled Release</i> , <b>2018</b> , 289, 70-78	11.7	41
170	Chitosan-Gated Magnetic-Responsive Nanocarrier for Dual-Modal Optical Imaging, Switchable Drug Release, and Synergistic Therapy. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1601080	10.1	20
169	Chitosan-Poly(caprolactone) Nanofibers for Skin Repair. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 1822-1833	18.3	64
168	Nanoparticle-mediated knockdown of DNA repair sensitizes cells to radiotherapy and extends survival in a genetic mouse model of glioblastoma. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2017</b> , 13, 2131-2139	6	28
167	Mesoporous carbon nanoshells for high hydrophobic drug loading, multimodal optical imaging, controlled drug release, and synergistic therapy. <i>Nanoscale</i> , <b>2017</b> , 9, 1434-1442	7.7	31
166	Paramagnetic Properties of Metal-Free Boron-Doped Graphene Quantum Dots and Their Application for Safe Magnetic Resonance Imaging. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605416	24	85

165	pH-Sensitive O6-Benzylguanosine Polymer Modified Magnetic Nanoparticles for Treatment of Glioblastomas. <i>Bioconjugate Chemistry</i> , <b>2017</b> , 28, 194-202	6.3	10
164	Nanoparticle Biokinetics in Mice and Nonhuman Primates. <i>ACS Nano</i> , <b>2017</b> , 11, 9514-9524	16.7	26
163	Nanoparticles for imaging and treatment of metastatic breast cancer. <i>Expert Opinion on Drug Delivery</i> , <b>2017</b> , 14, 123-136	8	54
162	Magnetite nanoparticles for cancer diagnosis, treatment, and treatment monitoring: recent advances. <i>Materials Today</i> , <b>2016</b> , 19, 157-168	21.8	380
161	Anisotropic Materials for Skeletal-Muscle-Tissue Engineering. <i>Advanced Materials</i> , <b>2016</b> , 28, 10588-10612	24	150
160	Nanoparticles for cancer gene therapy: Recent advances, challenges, and strategies. <i>Pharmacological Research</i> , <b>2016</b> , 114, 56-66	10.2	83
159	Culture on 3D Chitosan-Hyaluronic Acid Scaffolds Enhances Stem Cell Marker Expression and Drug Resistance in Human Glioblastoma Cancer Stem Cells. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 3173-3181	10.1	44
158	Iron-Oxide-Based Nanovector for Tumor Targeted siRNA Delivery in an Orthotopic Hepatocellular Carcinoma Xenograft Mouse Model. <i>Small</i> , <b>2016</b> , 12, 477-87	11	45
157	Electrospun uniaxially-aligned composite nanofibers as highly-efficient piezoelectric material. <i>Ceramics International</i> , <b>2016</b> , 42, 2734-2740	5.1	36
156	Approach to Rapid Synthesis and Functionalization of Iron Oxide Nanoparticles for High Gene Transfection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 6320-8	9.5	45
155	Gemcitabine and Chlorotoxin Conjugated Iron Oxide Nanoparticles for Glioblastoma Therapy. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 32-36	7.3	23
154	Modeling the tumor microenvironment using chitosan-alginate scaffolds to control the stem-like state of glioblastoma cells. <i>Biomaterials Science</i> , <b>2016</b> , 4, 610-3	7.4	22
153	PEG-chitosan hydrogel with tunable stiffness for study of drug response of breast cancer cells. <i>Polymers</i> , <b>2016</b> , 8,	4.5	28
152	3D Porous Chitosan-Alginate Scaffolds Promote Proliferation and Enrichment of Cancer Stem-Like Cells. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 6326-6334	7.3	47
151	Preloading of Hydrophobic Anticancer Drug into Multifunctional Nanocarrier for Multimodal Imaging, NIR-Responsive Drug Release, and Synergistic Therapy. <i>Small</i> , <b>2016</b> , 12, 6388-6397	11	37
150	Chitosan-PEG hydrogel with sol-gel transition triggerable by multiple external stimuli. <i>Macromolecular Rapid Communications</i> , <b>2015</b> , 36, 332-8	4.8	44
149	Stable and efficient Paclitaxel nanoparticles for targeted glioblastoma therapy. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 1236-45	10.1	36
148	High-throughput and high-yield fabrication of uniaxially-aligned chitosan-based nanofibers by centrifugal electrospinning. <i>Carbohydrate Polymers</i> , <b>2015</b> , 134, 467-74	10.3	44

147	Preparation and characterization of nano-sized hydroxyapatite/alginate/chitosan composite scaffolds for bone tissue engineering. <i>Materials Science and Engineering C</i> , <b>2015</b> , 54, 20-5	8.3	170
146	Nanoparticle mediated silencing of DNA repair sensitizes pediatric brain tumor cells to Irradiation. <i>Molecular Oncology</i> , <b>2015</b> , 9, 1071-80	7.9	45
145	Hexanoyl-Chitosan-PEG Copolymer Coated Iron Oxide Nanoparticles for Hydrophobic Drug Delivery. <i>ACS Macro Letters</i> , <b>2015</b> , 4, 403-407	6.6	37
144	Anti-HER2/neu peptide-conjugated iron oxide nanoparticles for targeted delivery of paclitaxel to breast cancer cells. <i>Nanoscale</i> , <b>2015</b> , 7, 18010-4	7.7	65
143	3D Porous Chitosan-Alginate Scaffolds as an In Vitro Model for Evaluating Nanoparticle-Mediated Tumor Targeting and Gene Delivery to Prostate Cancer. <i>Biomacromolecules</i> , <b>2015</b> , 16, 3362-72	6.9	54
142	Nanoparticle-Mediated Target Delivery of TRAIL as Gene Therapy for Glioblastoma. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 2719-26	10.1	57
141	Temozolomide nanoparticles for targeted glioblastoma therapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 6674-82	9.5	115
140	Bionanotechnology and the future of glioma. <i>Surgical Neurology International</i> , <b>2015</b> , 6, S45-58	1	18
139	Single-chain semiconducting polymer dots. <i>Langmuir</i> , <b>2015</b> , 31, 499-505	4	5
138	Proliferation and enrichment of CD133(+) glioblastoma cancer stem cells on 3D chitosan-alginate scaffolds. <i>Biomaterials</i> , <b>2014</b> , 35, 9137-43	15.6	88
137	Redox-responsive magnetic nanoparticle for targeted convection-enhanced delivery of O6-benzylguanine to brain tumors. <i>ACS Nano</i> , <b>2014</b> , 8, 10383-95	16.7	132
136	A simple material model to generate epidermal and dermal layers in vitro for skin regeneration. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 5256-5264	7.3	23
135	Chitosan-based thermoreversible hydrogel as an in vitro tumor microenvironment for testing breast cancer therapies. <i>Molecular Pharmaceutics</i> , <b>2014</b> , 11, 2134-42	5.6	28
134	Chitosan-based scaffolds for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 3161-3184	18.4	357
133	Thermoreversible poly(ethylene glycol)-g-chitosan hydrogel as a therapeutic T lymphocyte depot for localized glioblastoma immunotherapy. <i>Biomacromolecules</i> , <b>2014</b> , 15, 2656-62	6.9	74
132	Effect of nano- and micro-scale topological features on alignment of muscle cells and commitment of myogenic differentiation. <i>Biofabrication</i> , <b>2014</b> , 6, 035012	10.5	63
131	Glypican-3-targeted 89Zr PET imaging of hepatocellular carcinoma. <i>Journal of Nuclear Medicine</i> , <b>2014</b> , 55, 799-804	8.9	47
130	Bi-layer scaffold of chitosan/PCL-nanofibrous mat and PLLA-microporous disc for skin tissue engineering. <i>Journal of Biomedical Nanotechnology</i> , <b>2014</b> , 10, 1105-13	4	41

129	Assessing the barriers to image-guided drug delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2014</b> , 6, 1-14	9.2	39
128	Glypican-3-targeting F(ab) <sub>2</sub> for 89Zr PET of hepatocellular carcinoma. <i>Journal of Nuclear Medicine</i> , <b>2014</b> , 55, 2032-7	8.9	39
127	CCL21 and IFN $\gamma$ recruit and activate tumor specific T cells in 3D scaffold model of breast cancer. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , <b>2014</b> , 14, 204-10	2.2	20
126	Integrated bi-layered scaffold for osteochondral tissue engineering. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 872-83	10.1	68
125	Three-dimensional scaffolds to evaluate tumor associated fibroblast-mediated suppression of breast tumor specific T cells. <i>Biomacromolecules</i> , <b>2013</b> , 14, 1330-7	6.9	47
124	Nanofiber-based in vitro system for high myogenic differentiation of human embryonic stem cells. <i>Biomacromolecules</i> , <b>2013</b> , 14, 4207-16	6.9	37
123	In vivo safety evaluation of polyarginine coated magnetic nanovectors. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 4099-106	5.6	12
122	Porous chitosan-hyaluronic acid scaffolds as a mimic of glioblastoma microenvironment ECM. <i>Biomaterials</i> , <b>2013</b> , 34, 10143-50	15.6	152
121	Targeted cell uptake of a noninternalizing antibody through conjugation to iron oxide nanoparticles in primary central nervous system lymphoma. <i>World Neurosurgery</i> , <b>2013</b> , 80, 134-41	2.1	24
120	Uniaxially-aligned PVDF nanofibers as a sensor and transmitter for biotelemetry. <i>Analyst, The</i> , <b>2013</b> , 138, 7135-9	5	4
119	Tenogenic differentiation of human bone marrow stem cells via a combinatory effect of aligned chitosan-poly-caprolactone nanofibers and TGF- $\beta$ . <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 6516-6524	7.3	38
118	Treatment of glioblastoma multiforme using a combination of small interfering RNA targeting epidermal growth factor receptor and $\beta$ catenin. <i>Journal of Gene Medicine</i> , <b>2013</b> , 15, 42-50	3.5	18
117	Superparamagnetic iron oxide nanoparticle-based delivery systems for biotherapeutics. <i>Expert Opinion on Drug Delivery</i> , <b>2013</b> , 10, 73-87	8	98
116	Aligned chitosan-polycaprolactone polyblend nanofibers promote the migration of glioblastoma cells. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 1651-9	10.1	47
115	Fabrication of 3D aligned nanofibrous tubes by direct electrospinning. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 2575-2581	7.3	39
114	Evaluation of three-dimensional porous chitosan-alginate scaffolds in rat calvarial defects for bone regeneration applications. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 2974-83	5.4	57
113	Chitosan scaffolds with unidirectional microtubular pores for large skeletal myotube generation. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 557-61	10.1	59
112	Chitosan-based nanofibrous membranes for antibacterial filter applications. <i>Carbohydrate Polymers</i> , <b>2013</b> , 92, 254-9	10.3	129

111	Fabrication of magnetic nanoparticles with controllable drug loading and release through a simple assembly approach. <i>Journal of Controlled Release</i> , <b>2012</b> , 162, 233-41	11.7	73
110	Targeting of primary breast cancers and metastases in a transgenic mouse model using rationally designed multifunctional SPIONs. <i>ACS Nano</i> , <b>2012</b> , 6, 2591-601	16.7	144
109	High-strength pristine porous chitosan scaffolds for tissue engineering. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 6291		89
108	Centrifugal electrospinning of highly aligned polymer nanofibers over a large area. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 18646		82
107	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , <b>2012</b> , 8, 445-544	16.2	2783
106	Uniaxially aligned nanofibrous cylinders by electrospinning. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 4817-24	9.5	55
105	Effect of cationic side-chains on intracellular delivery and cytotoxicity of pH sensitive polymer-doxorubicin nanocarriers. <i>Nanoscale</i> , <b>2012</b> , 4, 7012-20	7.7	24
104	Polymeric fibrous matrices for substrate-mediated human embryonic stem cell lineage differentiation. <i>Macromolecular Bioscience</i> , <b>2012</b> , 12, 882-92	5.5	21
103	Enhanced bone tissue formation by alginate gel-assisted cell seeding in porous ceramic scaffolds and sustained release of growth factor. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 3408-15	5.45	26
102	3D porous chitosan-alginate scaffolds: a new matrix for studying prostate cancer cell-lymphocyte interactions in vitro. <i>Advanced Healthcare Materials</i> , <b>2012</b> , 1, 590-9	10.1	67
101	Real-time characterization of cytotoxicity using single-cell impedance monitoring. <i>Analyst, The</i> , <b>2012</b> , 137, 3011-9	5	17
100	Self-assembled chitin nanofiber templates for artificial neural networks. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 3105		46
99	Single-cell bioelectrical impedance platform for monitoring cellular response to drug treatment. <i>Physical Biology</i> , <b>2011</b> , 8, 015006	3	51
98	Chitosan-Coated Iron Oxide Nanoparticles for Molecular Imaging and Drug Delivery. <i>Advances in Polymer Science</i> , <b>2011</b> , 163-184	1.3	25
97	Glypican-3 Targeting of Liver Cancer Cells Using Multifunctional Nanoparticles. <i>Molecular Imaging</i> , <b>2011</b> , 10, 7290.2010.00048	3.7	33
96	IL-6 promotes prostate tumorigenesis and progression through autocrine cross-activation of IGF-IR. <i>Oncogene</i> , <b>2011</b> , 30, 2345-55	9.2	105
95	Doxorubicin loaded iron oxide nanoparticles overcome multidrug resistance in cancer in vitro. <i>Journal of Controlled Release</i> , <b>2011</b> , 152, 76-83	11.7	227
94	Site-specific sonoporation of human melanoma cells at the cellular level using high lateral-resolution ultrasonic micro-transducer arrays. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 27, 25-33	11.8	11



93	Electrospinning of chitosan derivative nanofibers with structural stability in an aqueous environment. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 9969-72	3.6	36
92	Surface engineering of iron oxide nanoparticles for targeted cancer therapy. <i>Accounts of Chemical Research</i> , <b>2011</b> , 44, 853-62	24.3	465
91	Cancer cell invasion: treatment and monitoring opportunities in nanomedicine. <i>Advanced Drug Delivery Reviews</i> , <b>2011</b> , 63, 582-96	18.5	99
90	Cell transcytosing poly-arginine coated magnetic nanovector for safe and effective siRNA delivery. <i>Biomaterials</i> , <b>2011</b> , 32, 5717-25	15.6	80
89	Magnetite Nanoparticles for Medical MR Imaging. <i>Materials Today</i> , <b>2011</b> , 14, 330-338	21.8	298
88	Cancer nanotheranostics: improving imaging and therapy by targeted delivery across biological barriers. <i>Advanced Materials</i> , <b>2011</b> , 23, H217-47	24	384
87	Cancer Therapy: Cancer Nanotheranostics: Improving Imaging and Therapy by Targeted Delivery Across Biological Barriers (Adv. Mater. 36/2011). <i>Advanced Materials</i> , <b>2011</b> , 23, H209-H209	24	10
86	Influence of processing parameters on pore structure of 3D porous chitosan-alginate polyelectrolyte complex scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2011</b> , 98, 614-20	5.4	69
85	Effects of electrode surface modification with chlorotoxin on patterning single glioma cells. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 8953-60	3.6	1
84	A pretargeted nanoparticle system for tumor cell labeling. <i>Molecular BioSystems</i> , <b>2011</b> , 7, 742-8		27
83	Fabrication and cellular compatibility of aligned chitosan/PCL fibers for nerve tissue regeneration. <i>Carbohydrate Polymers</i> , <b>2011</b> , 85, 149-156	10.3	193
82	Glypican-3 targeting of liver cancer cells using multifunctional nanoparticles. <i>Molecular Imaging</i> , <b>2011</b> , 10, 69-77	3.7	25
81	pH-Sensitive siRNA nanovector for targeted gene silencing and cytotoxic effect in cancer cells. <i>Molecular Pharmaceutics</i> , <b>2010</b> , 7, 1930-9	5.6	110
80	PEG-mediated synthesis of highly dispersive multifunctional superparamagnetic nanoparticles: their physicochemical properties and function in vivo. <i>ACS Nano</i> , <b>2010</b> , 4, 2402-10	16.7	218
79	Chlorotoxin labeled magnetic nanovectors for targeted gene delivery to glioma. <i>ACS Nano</i> , <b>2010</b> , 4, 4587-94	10.7	182
78	A facile bottom-up route to self-assembled biogenic chitin nanofibers. <i>Soft Matter</i> , <b>2010</b> , 6, 5298	3.6	80
77	Functionalization of iron oxide magnetic nanoparticles with targeting ligands: their physicochemical properties and in vivo behavior. <i>Nanomedicine</i> , <b>2010</b> , 5, 1357-69	5.6	48
76	Chitosan-based hydrogels for controlled, localized drug delivery. <i>Advanced Drug Delivery Reviews</i> , <b>2010</b> , 62, 83-99	18.5	1716



75	Design and fabrication of magnetic nanoparticles for targeted drug delivery and imaging. <i>Advanced Drug Delivery Reviews</i> , <b>2010</b> , 62, 284-304	18.5	1467
74	Aligned chitosan-based nanofibers for enhanced myogenesis. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 8904		79
73	Chitosan-alginate 3D scaffolds as a mimic of the glioma tumor microenvironment. <i>Biomaterials</i> , <b>2010</b> , 31, 5903-10	15.6	159
72	Chlorotoxin bound magnetic nanovector tailored for cancer cell targeting, imaging, and siRNA delivery. <i>Biomaterials</i> , <b>2010</b> , 31, 8032-42	15.6	157
71	Chitosan-alginate scaffold culture system for hepatocellular carcinoma increases malignancy and drug resistance. <i>Pharmaceutical Research</i> , <b>2010</b> , 27, 1939-48	4.5	72
70	Polyblend nanofibers for biomedical applications: perspectives and challenges. <i>Trends in Biotechnology</i> , <b>2010</b> , 28, 189-97	15.1	172
69	Feeder-free self-renewal of human embryonic stem cells in 3D porous natural polymer scaffolds. <i>Biomaterials</i> , <b>2010</b> , 31, 404-12	15.6	129
68	Response characteristics of single-cell impedance sensors employed with surface-modified microelectrodes. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 1963-9	11.8	50
67	Rapid pharmacokinetic and biodistribution studies using chlorotoxin-conjugated iron oxide nanoparticles: a novel non-radioactive method. <i>PLoS ONE</i> , <b>2010</b> , 5, e9536	3.7	66
66	Design and evaluation of a nanoscale differential tensile test device for nanofibers. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 103101	3.4	9
65	PEI-PEG-Chitosan Copolymer Coated Iron Oxide Nanoparticles for Safe Gene Delivery: synthesis, complexation, and transfection. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2244-2251	15.6	323
64	Natural-Synthetic Polyblend Nanofibers for Biomedical Applications. <i>Advanced Materials</i> , <b>2009</b> , 21, 2792-2797		126
63	A ligand-mediated nanovector for targeted gene delivery and transfection in cancer cells. <i>Biomaterials</i> , <b>2009</b> , 30, 649-57	15.6	106
62	Functionalized nanoparticles with long-term stability in biological media. <i>Small</i> , <b>2009</b> , 5, 1637-41	11	200
61	Multifunctional Magnetic Nanoparticles for Medical Imaging Applications. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 6258-6266		253
60	A simple and highly sensitive method for magnetic nanoparticle quantitation using <sup>1</sup> H-NMR spectroscopy. <i>Biophysical Journal</i> , <b>2009</b> , 97, 2640-7	2.9	8
59	Detection of drug-induced cellular changes using confocal Raman spectroscopy on patterned single-cell biosensors. <i>Analyst, The</i> , <b>2009</b> , 134, 1440-6	5	45
58	Magnetic Nanoparticles for Early Detection of Cancer by Magnetic Resonance Imaging. <i>MRS Bulletin</i> , <b>2009</b> , 34, 441-448	3.2	56

57	Specific targeting of brain tumors with an optical/magnetic resonance imaging nanoprobe across the blood-brain barrier. <i>Cancer Research</i> , <b>2009</b> , 69, 6200-7	10.1	305
56	Inhibition of tumor-cell invasion with chlorotoxin-bound superparamagnetic nanoparticles. <i>Small</i> , <b>2009</b> , 5, 256-64	11	152
55	Ultrasensitive detection and molecular imaging with magnetic nanoparticles. <i>Analyst, The</i> , <b>2008</b> , 133, 154-60	5	39
54	Tumor-targeted drug delivery and MRI contrast enhancement by chlorotoxin-conjugated iron oxide nanoparticles. <i>Nanomedicine</i> , <b>2008</b> , 3, 495-505	5.6	144
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