Miqin Zhang

List of Publications by Year
in descending order

204 papers	33,532 citations	5558 82 h-index	3638 180 g-index
206 all docs	206 docs citations	206 times ranked	43703 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	4.3	3,122
2	Magnetic nanoparticles in MR imaging and drug delivery. Advanced Drug Delivery Reviews, 2008, 60, 1252-1265.	6.6	2,218
3	Chitosan-based hydrogels for controlled, localized drug delivery. Advanced Drug Delivery Reviews, 2010, 62, 83-99.	6.6	2,026
4	Design and fabrication of magnetic nanoparticles for targeted drug delivery and imaging. Advanced Drug Delivery Reviews, 2010, 62, 284-304.	6.6	1,683
5	Surface modification of superparamagnetic magnetite nanoparticles and their intracellular uptake. Biomaterials, 2002, 23, 1553-1561.	5.7	1,185
6	Chitosanâ€“alginate hybrid scaffolds for bone tissue engineering. Biomaterials, 2005, 26, 3919-3928.	5.7	888
7	Electrospun chitosan-based nanofibers and their cellular compatibility. Biomaterials, 2005, 26, 6176-6184.	5.7	815
8	PEG-grafted chitosan as an injectable thermosensitive hydrogel for sustained protein release. Journal of Controlled Release, 2005, 103, 609-624.	4.8	591
9	Optical and MRI Multifunctional Nanoprobe for Targeting Gliomas. Nano Letters, 2005, 5, 1003-1008.	4.5	562
10	Methotrexate-Modified Superparamagnetic Nanoparticles and Their Intracellular Uptake into Human Cancer Cells. Langmuir, 2005, 21, 8858-8864.	1.6	543
11	Surface Engineering of Iron Oxide Nanoparticles for Targeted Cancer Therapy. Accounts of Chemical Research, 2011, 44, 853-862.	7.6	532
12	Chitosan-based scaffolds for bone tissue engineering. Journal of Materials Chemistry B, 2014, 2, 3161.	2.9	487
13	Preparation of porous hydroxyapatite scaffolds by combination of the gel-casting and polymer sponge methods. Biomaterials, 2003, 24, 3293-3302.	5.7	486
14	Magnetite nanoparticles for cancer diagnosis, treatment, and treatment monitoring: recent advances. Materials Today, 2016, 19, 157-168.	8.3	484
15	A Bifunctional Poly(ethylene glycol) Silane Immobilized on Metallic Oxide-Based Nanoparticles for Conjugation with Cell Targeting Agents. Journal of the American Chemical Society, 2004, 126, 7206-7211.	6.6	457
16	Cancer Nanotheranostics: Improving Imaging and Therapy by Targeted Delivery Across Biological Barriers. Advanced Materials, 2011, 23, H217-47.	11.1	432
17	Biphasic calcium phosphate nanocomposite porous scaffolds for load-bearing bone tissue engineering. Biomaterials, 2004, 25, 5171-5180.	5.7	429
18	Methotrexate-Immobilized Poly(ethylene glycol) Magnetic Nanoparticles for MR Imaging and Drug Delivery. Small, 2006, 2, 785-792.	5.2	395

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19	Proteins and cells on PEG immobilized silicon surfaces. Biomaterials, 1998, 19, 953-960.	5.7	389
20	Tumor Paint: A Chlorotoxin:Cy5.5 Bioconjugate for Intraoperative Visualization of Cancer Foci. Cancer Research, 2007, 67, 6882-6888.	0.4	384
21	Synthesis and characterization of macroporous chitosan/calcium phosphate composite scaffolds for tissue engineering. Journal of Biomedical Materials Research Part B, 2001, 55, 304-312.	3.0	372
22	Graphene Quantum Dots and Their Applications in Bioimaging, Biosensing, and Therapy. Advanced Materials, 2021, 33, e1904362.	11.1	367
23	Magnetite nanoparticles for medical MR imaging. Materials Today, 2011, 14, 330-338.	8.3	360
24	PEIâ€“PEGâ€“Chitosanâ€Copolymerâ€Coated Iron Oxide Nanoparticles for Safe Gene Delivery: Synthesis, Complexation, and Transfection. Advanced Functional Materials, 2009, 19, 2244-2251.	7.8	359
25	Specific Targeting of Brain Tumors with an Optical/Magnetic Resonance Imaging Nanoprobe across the Blood-Brain Barrier. Cancer Research, 2009, 69, 6200-6207.	0.4	347
26	Folic acid-PEG conjugated superparamagnetic nanoparticles for targeted cellular uptake and detection by MRI. Journal of Biomedical Materials Research - Part A, 2006, 78A, 550-557.	2.1	331
27	In Vivo MRI Detection of Gliomas by Chlorotoxinâ€Conjugated Superparamagnetic Nanoprobes. Small, 2008, 4, 372-379.	5.2	300
28	Alginate-Based Nanofibrous Scaffolds: Structural, Mechanical, and Biological Properties. Advanced Materials, 2006, 18, 1463-1467.	11.1	293
29	Multifunctional magnetic nanoparticles for medical imaging applications. Journal of Materials Chemistry, 2009, 19, 6258.	6.7	277
30	Doxorubicin loaded iron oxide nanoparticles overcome multidrug resistance in cancer in vitro. Journal of Controlled Release, 2011, 152, 76-83.	4.8	254
31	PEG-Mediated Synthesis of Highly Dispersive Multifunctional Superparamagnetic Nanoparticles: Their Physicochemical Properties and Function <i>In Vivo</i>. ACS Nano, 2010, 4, 2402-2410.	7.3	250
32	Functionalized Nanoparticles with Longâ€Term Stability in Biological Media. Small, 2009, 5, 1637-1641.	5.2	227
33	Anisotropic Materials for Skeletalâ€Muscleâ€Tissue Engineering. Advanced Materials, 2016, 28, 10588-10612.	11.1	221
34	Fabrication and cellular compatibility of aligned chitosanâ€“PCL fibers for nerve tissue regeneration. Carbohydrate Polymers, 2011, 85, 149-156.	5.1	219
35	Iron Oxide Nanoparticles as <i>T</i>₁ Contrast Agents for Magnetic Resonance Imaging: Fundamentals, Challenges, Applications, and Prospectives. Advanced Materials, 2021, 33, e1906539.	11.1	219
36	Calcium phosphate/chitosan composite scaffolds for controlledin vitro antibiotic drug release. Journal of Biomedical Materials Research Part B, 2002, 62, 378-386.	3.0	218

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37	Three-dimensional macroporous calcium phosphate bioceramics with nested chitosan sponges for load-bearing bone implants. Journal of Biomedical Materials Research Part B, 2002, 61, 1-8.	3.0	205
38	Chlorotoxin Labeled Magnetic Nanovectors for Targeted Gene Delivery to Glioma. ACS Nano, 2010, 4, 4587-4594.	7.3	203
39	Chitosan-alginate as scaffolding material for cartilage tissue engineering. Journal of Biomedical Materials Research - Part A, 2005, 75A, 485-493.	2.1	198
40	Polyblend nanofibers for biomedical applications: perspectives and challenges. Trends in Biotechnology, 2010, 28, 189-197.	4.9	198
41	Preparation and characterization of nano-sized hydroxyapatite/alginate/chitosan composite scaffolds for bone tissue engineering. Materials Science and Engineering C, 2015, 54, 20-25.	3.8	198
42	Chitosanâ€"alginate 3D scaffolds as a mimic of the glioma tumor microenvironment. Biomaterials, 2010, 31, 5903-5910.	5.7	183
43	Highly Selective Protein Patterning on Goldâ^'Silicon Substrates for Biosensor Applications. Langmuir, 2002, 18, 6671-6678.	1.6	182
44	Porous chitosan-hyaluronic acid scaffolds as a mimic of glioblastoma microenvironment ECM. Biomaterials, 2013, 34, 10143-10150.	5.7	182
45	Calcium Phosphateâ€"Chitosan Composite Scaffolds for Bone Tissue Engineering. Tissue Engineering, 2003, 9, 337-345.	4.9	180
46	Chlorotoxin bound magnetic nanovector tailored for cancer cell targeting, imaging, and siRNA delivery. Biomaterials, 2010, 31, 8032-8042.	5.7	175
47	Inhibition of Tumorâ€Cell Invasion with Chlorotoxinâ€Bound Superparamagnetic Nanoparticles. Small, 2009, 5, 256-264.	5.2	174
48	Nanopore Technology for Biomedical Applications. Biomedical Microdevices, 1999, 2, 11-40.	1.4	172
49	Tumor-targeted drug delivery and MRI contrast enhancement by chlorotoxin-conjugated iron oxide nanoparticles. Nanomedicine, 2008, 3, 495-505.	1.7	172
50	Cellular impedance biosensors for drug screening and toxin detection. Analyst, The, 2007, 132, 835.	1.7	169
51	Targeting of Primary Breast Cancers and Metastases in a Transgenic Mouse Model Using Rationally Designed Multifunctional SPIONs. ACS Nano, 2012, 6, 2591-2601.	7.3	167
52	Temozolomide Nanoparticles for Targeted Glioblastoma Therapy. ACS Applied Materials & Interfaces, 2015, 7, 6674-6682.	4.0	161
53	Chitosan-based nanofibrous membranes for antibacterial filter applications. Carbohydrate Polymers, 2013, 92, 254-259.	5.1	159
54	Redox-Responsive Magnetic Nanoparticle for Targeted Convection-Enhanced Delivery of <i>O</i>⁶-Benzylguanine to Brain Tumors. ACS Nano, 2014, 8, 10383-10395.	7.3	157

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55	Feeder-free self-renewal of human embryonic stem cells in 3D porous natural polymer scaffolds. Biomaterials, 2010, 31, 404-412.	5.7	147
56	Surface modification of silicon and gold-patterned silicon surfaces for improved biocompatibility and cell patterning selectivity. Biosensors and Bioelectronics, 2005, 20, 1697-1708.	5.3	145
57	PEG-Grafted Chitosan as an Injectable Thermoreversible Hydrogel. Macromolecular Bioscience, 2005, 5, 107-111.	2.1	145
58	Naturalâ€Synthetic Polyblend Nanofibers for Biomedical Applications. Advanced Materials, 2009, 21, 2792-2797.	11.1	145
59	IL-6 promotes prostate tumorigenesis and progression through autocrine cross-activation of IGF-IR. Oncogene, 2011, 30, 2345-2355.	2.6	136
60	Nitrogen and boron dual-doped graphene quantum dots for near-infrared second window imaging and photothermal therapy. Applied Materials Today, 2019, 14, 108-117.	2.3	135
61	Controlled synthesis and structural stability of alginate-based nanofibers. Nanotechnology, 2007, 18, 455601.	1.3	126
62	Cancer Cell Invasion: Treatment and Monitoring Opportunities in Nanomedicine. Advanced Drug Delivery Reviews, 2011, 63, 582-596.	6.6	118
63	A ligand-mediated nanovector for targeted gene delivery and transfection in cancer cells. Biomaterials, 2009, 30, 649-657.	5.7	116
64	pH-Sensitive siRNA Nanovector for Targeted Gene Silencing and Cytotoxic Effect in Cancer Cells. Molecular Pharmaceutics, 2010, 7, 1930-1939.	2.3	116
65	Superparamagnetic iron oxide nanoparticle-based delivery systems for biotherapeutics. Expert Opinion on Drug Delivery, 2013, 10, 73-87.	2.4	115
66	Paramagnetic Properties of Metalâ€Free Boronâ€Doped Graphene Quantum Dots and Their Application for Safe Magnetic Resonance Imaging. Advanced Materials, 2017, 29, 1605416.	11.1	112
67	Theranostic Nanoparticles for RNA-Based Cancer Treatment. Accounts of Chemical Research, 2019, 52, 1496-1506.	7.6	111
68	Nanoparticles for cancer gene therapy: Recent advances, challenges, and strategies. Pharmacological Research, 2016, 114, 56-66.	3.1	110
69	Nanoparticle-based theragnostics: Integrating diagnostic and therapeutic potentials in nanomedicine. Journal of Controlled Release, 2010, 146, 2-5.	4.8	107
70	High-strength pristine porous chitosan scaffolds for tissue engineering. Journal of Materials Chemistry, 2012, 22, 6291.	6.7	106
71	Thermoreversible Poly(ethylene glycol)-<i>g</i>-Chitosan Hydrogel as a Therapeutic T Lymphocyte Depot for Localized Glioblastoma Immunotherapy. Biomacromolecules, 2014, 15, 2656-2662.	2.6	106
72	Chitosan and lactic acid-grafted chitosan nanoparticles as carriers for prolonged drug delivery. International Journal of Nanomedicine, 2006, 1, 181-187.	3.3	106

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73	Proliferation and enrichment of CD133+ glioblastoma cancer stem cells on 3D chitosan-alginate scaffolds. Biomaterials, 2014, 35, 9137-9143.	5.7	105
74	Chitosanâ€“poly(caprolactone) nanofibers for skin repair. Journal of Materials Chemistry B, 2017, 5, 1822-1833.	2.9	99
75	Centrifugal electrospinning of highly aligned polymer nanofibers over a large area. Journal of Materials Chemistry, 2012, 22, 18646.	6.7	96
76	A facile bottom-up route to self-assembled biogenic chitin nanofibers. Soft Matter, 2010, 6, 5298.	1.2	90
77	Self-Assembled Coatings on Individual Monodisperse Magnetite Nanoparticles for Efficient Intracellular Uptake. Biomedical Microdevices, 2004, 6, 33-40.	1.4	89
78	Aligned chitosan-based nanofibers for enhanced myogenesis. Journal of Materials Chemistry, 2010, 20, 8904.	6.7	89
79	Influence of processing parameters on pore structure of 3D porous chitosanâ€“alginate polyelectrolyte complex scaffolds. Journal of Biomedical Materials Research - Part A, 2011, 98A, 614-620.	2.1	87
80	Influence of cell adhesion and spreading on impedance characteristics of cell-based sensors. Biosensors and Bioelectronics, 2008, 23, 1307-1313.	5.3	86
81	Chitosan-Alginate Scaffold Culture System for Hepatocellular Carcinoma Increases Malignancy and Drug Resistance. Pharmaceutical Research, 2010, 27, 1939-1948.	1.7	86
82	Cell transcytosing poly-arginine coated magnetic nanovector for safe and effective siRNA delivery. Biomaterials, 2011, 32, 5717-5725.	5.7	85
83	Rapid Pharmacokinetic and Biodistribution Studies Using Cholorotoxin-Conjugated Iron Oxide Nanoparticles: A Novel Non-Radioactive Method. PLoS ONE, 2010, 5, e9536.	1.1	85
84	Guided cell patterning on goldâ€“silicon dioxide substrates by surface molecular engineering. Biomaterials, 2004, 25, 3315-3324.	5.7	84
85	Fabrication of magnetic nanoparticles with controllable drug loading and release through a simple assembly approach. Journal of Controlled Release, 2012, 162, 233-241.	4.8	83
86	Integrated Biâ€Layered Scaffold for Osteochondral Tissue Engineering. Advanced Healthcare Materials, 2013, 2, 872-883.	3.9	83
87	Effect of nano- and micro-scale topological features on alignment of muscle cells and commitment of myogenic differentiation. Biofabrication, 2014, 6, 035012.	3.7	81
88	Nanoparticles for imaging and treatment of metastatic breast cancer. Expert Opinion on Drug Delivery, 2017, 14, 123-136.	2.4	81
89	Cell growth and function on calcium phosphate reinforced chitosan scaffolds. Journal of Materials Science: Materials in Medicine, 2004, 15, 255-260.	1.7	80
90	Anti-HER2/neu peptide-conjugated iron oxide nanoparticles for targeted delivery of paclitaxel to breast cancer cells. Nanoscale, 2015, 7, 18010-18014.	2.8	80

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91	Fundamental electronic structure and multiatomic bonding in 13 biocompatible high-entropy alloys. Npj Computational Materials, 2020, 6, .	3.5	79
92	3D Porous Chitosanâ€“Alginate Scaffolds: A New Matrix for Studying Prostate Cancer Cellâ€“Lymphocyte Interactions In Vitro. Advanced Healthcare Materials, 2012, 1, 590-599.	3.9	76
93	Chitosan Scaffolds with Unidirectional Microtubular Pores for Large Skeletal Myotube Generation. Advanced Healthcare Materials, 2013, 2, 557-561.	3.9	73
94	Nanoparticleâ€Mediated Target Delivery of TRAIL as Gene Therapy for Glioblastoma. Advanced Healthcare Materials, 2015, 4, 2719-2726.	3.9	69
95	Evaluation of threeâ€dimensional porous chitosanâ€“alginate scaffolds in rat calvarial defects for bone regeneration applications. Journal of Biomedical Materials Research - Part A, 2013, 101, 2974-2983.	2.1	66
96	3D porous chitosanâ€“alginate scaffolds promote proliferation and enrichment of cancer stem-like cells. Journal of Materials Chemistry B, 2016, 4, 6326-6334.	2.9	63
97	Response characteristics of single-cell impedance sensors employed with surface-modified microelectrodes. Biosensors and Bioelectronics, 2010, 25, 1963-1969.	5.3	62
98	3D Porous Chitosanâ€“Alginate Scaffolds as an In Vitro Model for Evaluating Nanoparticle-Mediated Tumor Targeting and Gene Delivery to Prostate Cancer. Biomacromolecules, 2015, 16, 3362-3372.	2.6	62
99	Magnetic Nanoparticles for Early Detection of Cancer by Magnetic Resonance Imaging. MRS Bulletin, 2009, 34, 441-448.	1.7	61
100	Fabrication and Characterization of Chitosanâ€“Hyaluronic Acid Scaffolds with Varying Stiffness for Glioblastoma Cell Culture. Advanced Healthcare Materials, 2018, 7, e1800295.	3.9	61
101	Microstructural and mechanical characterization of chitosan scaffolds reinforced by calcium phosphates. Journal of Non-Crystalline Solids, 2001, 282, 159-164.	1.5	60
102	Aligned Chitosanâ€Polycaprolactone Polyblend Nanofibers Promote the Migration of Glioblastoma Cells. Advanced Healthcare Materials, 2013, 2, 1651-1659.	3.9	60
103	Culture on 3D Chitosanâ€Hyaluronic Acid Scaffolds Enhances Stem Cell Marker Expression and Drug Resistance in Human Glioblastoma Cancer Stem Cells. Advanced Healthcare Materials, 2016, 5, 3173-3181.	3.9	60
104	Single-cell bioelectrical impedance platform for monitoring cellular response to drug treatment. Physical Biology, 2011, 8, 015006.	0.8	59
105	Uniaxially Aligned Nanofibrous Cylinders by Electrospinning. ACS Applied Materials & Interfaces, 2012, 4, 4817-4824.	4.0	59
106	Iron-Oxide-Based Nanovector for Tumor Targeted siRNA Delivery in an Orthotopic Hepatocellular Carcinoma Xenograft Mouse Model. Small, 2016, 12, 477-487.	5.2	58
107	Nanoparticle mediated silencing of DNA repair sensitizes pediatric brain tumor cells to Î³â€irradiation. Molecular Oncology, 2015, 9, 1071-1080.	2.1	57
108	Glypican-3â€“Targeted ⁸⁹Zr PET Imaging of Hepatocellular Carcinoma. Journal of Nuclear Medicine, 2014, 55, 799-804.	2.8	56

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109	Nanotechnology for treatment of glioblastoma multiforme. Journal of Translational Internal Medicine, 2018, 6, 128-133.	1.0	56
110	Short Peptides Enhance Single Cell Adhesion and Viability on Microarrays. Langmuir, 2007, 23, 4472-4479.	1.6	55
111	Approach to Rapid Synthesis and Functionalization of Iron Oxide Nanoparticles for High Gene Transfection. ACS Applied Materials & Interfaces, 2016, 8, 6320-6328.	4.0	55
112	Iron oxide-carbon core-shell nanoparticles for dual-modal imaging-guided photothermal therapy. Journal of Controlled Release, 2018, 289, 70-78.	4.8	55
113	Functionalization of iron oxide magnetic nanoparticles with targeting ligands: their physicochemical properties and <i>in vivo</i> behavior. Nanomedicine, 2010, 5, 1357-1369.	1.7	54
114	Three-Dimensional Scaffolds to Evaluate Tumor Associated Fibroblast-Mediated Suppression of Breast Tumor Specific T Cells. Biomacromolecules, 2013, 14, 1330-1337.	2.6	54
115	High-throughput and high-yield fabrication of uniaxially-aligned chitosan-based nanofibers by centrifugal electrospinning. Carbohydrate Polymers, 2015, 134, 467-474.	5.1	54
116	Glypican-3â€"Targeting F(abâ€²)2 for ⁸⁹Zr PET of Hepatocellular Carcinoma. Journal of Nuclear Medicine, 2014, 55, 2032-2037.	2.8	53
117	Effect of Silicon Oxidation on Long-Term Cell Selectivity of Cell-Patterned Au/SiO2Platforms. Journal of the American Chemical Society, 2006, 128, 1197-1203.	6.6	51
118	Stable and Efficient Paclitaxel Nanoparticles for Targeted Glioblastoma Therapy. Advanced Healthcare Materials, 2015, 4, 1236-1245.	3.9	50
119	Detection of drug-induced cellular changes using confocal Raman spectroscopy on patterned single-cell biosensors. Analyst, The, 2009, 134, 1440.	1.7	49
120	Chitosan-PEG Hydrogel with Sol-Gel Transition Triggerable by Multiple External Stimuli. Macromolecular Rapid Communications, 2015, 36, 332-338.	2.0	49
121	Hemocompatible Polyethylene Glycol Films on Silicon. Biomedical Microdevices, 1998, 1, 81-89.	1.4	48
122	Bi-Layer Scaffold of Chitosan/PCL-Nanofibrous Mat and PLLA-Microporous Disc for Skin Tissue Engineering. Journal of Biomedical Nanotechnology, 2014, 10, 1105-1113.	0.5	48
123	A Multimodal Targeting Nanoparticle for Selectively Labeling T Cells. Small, 2008, 4, 712-715.	5.2	47
124	Self-assembled chitin nanofiber templates for artificial neural networks. Journal of Materials Chemistry, 2012, 22, 3105.	6.7	47
125	Preloading of Hydrophobic Anticancer Drug into Multifunctional Nanocarrier for Multimodal Imaging, NIRâ€Responsive Drug Release, and Synergistic Therapy. Small, 2016, 12, 6388-6397.	5.2	46
126	Electrospun uniaxially-aligned composite nanofibers as highly-efficient piezoelectric material. Ceramics International, 2016, 42, 2734-2740.	2.3	45

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127	Hexanoyl-Chitosan-PEG Copolymer Coated Iron Oxide Nanoparticles for Hydrophobic Drug Delivery. ACS Macro Letters, 2015, 4, 403-407.	2.3	44
128	Ultrasensitive detection and molecular imaging with magnetic nanoparticles. Analyst, The, 2008, 133, 154-160.	1.7	43
129	Fabrication of 3D aligned nanofibrous tubes by direct electrospinning. Journal of Materials Chemistry B, 2013, 1, 2575.	2.9	43
130	Tenogenic differentiation of human bone marrow stem cells via a combinatory effect of aligned chitosanâ€"poly-caprolactone nanofibers and TGF-Î²3. Journal of Materials Chemistry B, 2013, 1, 6516.	2.9	42
131	Assessing the barriers to imageâ€guided drug delivery. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2014, 6, 1-14.	3.3	42
132	Reduction of albumin adsorption onto silicon surfaces by Tween 20. , 1997, 56, 618-625.		40
133	Tissue response and Msx1 expression after human fetal digit tip amputation in vitro. Wound Repair and Regeneration, 2006, 14, 398-404.	1.5	40
134	Chitosan-based composite bilayer scaffold as an in vitro osteochondral defect regeneration model. Biomedical Microdevices, 2019, 21, 34.	1.4	40
135	Nanofiber-Based in Vitro System for High Myogenic Differentiation of Human Embryonic Stem Cells. Biomacromolecules, 2013, 14, 4207-4216.	2.6	39
136	PEG-Chitosan Hydrogel with Tunable Stiffness for Study of Drug Response of Breast Cancer Cells. Polymers, 2016, 8, 112.	2.0	39
137	Onâ€site alginate gelation for enhanced cell proliferation and uniform distribution in porous scaffolds. Journal of Biomedical Materials Research - Part A, 2008, 86A, 552-559.	2.1	38
138	Electrospinning of chitosan derivative nanofibers with structural stability in an aqueous environment. Physical Chemistry Chemical Physics, 2011, 13, 9969.	1.3	38
139	Chitosan-Coated Iron Oxide Nanoparticles for Molecular Imaging and Drug Delivery. Advances in Polymer Science, 2011, , 163-184.	0.4	37
140	Glypican-3 Targeting of Liver Cancer Cells Using Multifunctional Nanoparticles. Molecular Imaging, 2011, 10, 7290.2010.00048.	0.7	37
141	Nanoparticle-mediated knockdown of DNA repair sensitizes cells to radiotherapy and extends survival in a genetic mouse model of glioblastoma. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 2131-2139.	1.7	37
142	Recent Progress in the Synergistic Combination of Nanoparticleâ€Mediated Hyperthermia and Immunotherapy for Treatment of Cancer. Advanced Healthcare Materials, 2021, 10, e2001415.	3.9	37
143	Injectable Natural Polymer Hydrogels for Treatment of Knee Osteoarthritis. Advanced Healthcare Materials, 2022, 11, e2101479.	3.9	37
144	Mesoporous carbon nanoshells for high hydrophobic drug loading, multimodal optical imaging, controlled drug release, and synergistic therapy. Nanoscale, 2017, 9, 1434-1442.	2.8	35

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145	Nanoparticle Biokinetics in Mice and Nonhuman Primates. ACS Nano, 2017, 11, 9514-9524.	7.3	35
146	Chitosan-Based Thermoreversible Hydrogel as anin VitroTumor Microenvironment for Testing Breast Cancer Therapies. Molecular Pharmaceutics, 2014, 11, 2134-2142.	2.3	34
147	Enhanced bone tissue formation by alginate gelâ€assisted cell seeding in porous ceramic scaffolds and sustained release of growth factor. Journal of Biomedical Materials Research - Part A, 2012, 100A, 3408-3415.	2.1	33
148	Microfluidic Synthesis of Iron Oxide Nanoparticles. Nanomaterials, 2020, 10, 2113.	1.9	33
149	Iron oxide nanoparticle targeted chemo-immunotherapy for triple negative breast cancer. Materials Today, 2021, 50, 149-169.	8.3	33
150	Inorganic Nanomaterialâ€Mediated Gene Therapy in Combination with Other Antitumor Treatment Modalities. Advanced Functional Materials, 2021, 31, 2007096.	7.8	32
151	Gemcitabine and chlorotoxin conjugated iron oxide nanoparticles for glioblastoma therapy. Journal of Materials Chemistry B, 2016, 4, 32-36.	2.9	31
152	A simple material model to generate epidermal and dermal layers in vitro for skin regeneration. Journal of Materials Chemistry B, 2014, 2, 5256-5264.	2.9	30
153	A pretargeted nanoparticle system for tumor cell labeling. Molecular BioSystems, 2011, 7, 742-748.	2.9	29
154	Immobilization of polydiacetylene onto silica microbeads for colorimetric detection. Journal of Materials Chemistry, 2006, 16, 546-549.	6.7	28
155	Effect of cationic side-chains on intracellular delivery and cytotoxicity of pH sensitive polymerâ€“doxorubicin nanocarriers. Nanoscale, 2012, 4, 7012.	2.8	28
156	Modeling the tumor microenvironment using chitosan-alginate scaffolds to control the stem-like state of glioblastoma cells. Biomaterials Science, 2016, 4, 610-613.	2.6	28
157	Time-Resolved MRI Assessment of Convection-Enhanced Delivery by Targeted and Nontargeted Nanoparticles in a Human Glioblastoma Mouse Model. Cancer Research, 2019, 79, 4776-4786.	0.4	28
158	Iron oxide nanoparticles for immune cell labeling and cancer immunotherapy. Nanoscale Horizons, 2021, 6, 696-717.	4.1	28
159	Title is missing!. Biomedical Microdevices, 2001, 3, 45-51.	1.4	27
160	Glypican-3 targeting of liver cancer cells using multifunctional nanoparticles. Molecular Imaging, 2011, 10, 69-77.	0.7	27
161	Chitosanâ€Gated Magneticâ€Responsive Nanocarrier for Dualâ€Modal Optical Imaging, Switchable Drug Release, and Synergistic Therapy. Advanced Healthcare Materials, 2017, 6, 1601080.	3.9	26
162	Catalaseâ€Functionalized Iron Oxide Nanoparticles Reverse Hypoxiaâ€Induced Chemotherapeutic Resistance. Advanced Healthcare Materials, 2019, 8, e1900826.	3.9	26

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163	Single-layer boron-doped graphene quantum dots for contrast-enhanced <i>in vivo T</i>₁-weighted MRI. Nanoscale Horizons, 2020, 5, 573-579.	4.1	26
164	CCL21 and IFNγ Recruit and Activate Tumor Specific T cells in 3D Scaffold Model of Breast Cancer. Anti-Cancer Agents in Medicinal Chemistry, 2014, 14, 204-210.	0.9	26
165	Targeted Cell Uptake of a Noninternalizing Antibody Through Conjugation to Iron Oxide Nanoparticles in Primary Central Nervous System Lymphoma. World Neurosurgery, 2013, 80, 134-141.	0.7	25
166	Biconcave Carbon Nanodisks for Enhanced Drug Accumulation and Chemoâ€Photothermal Tumor Therapy. Advanced Healthcare Materials, 2019, 8, 1801505.	3.9	25
167	Bionanotechnology and the Future of Glioma. , 2015, 6, 45.		24
168	Polymeric Fibrous Matrices for Substrateâ€Mediated Human Embryonic Stem Cell Lineage Differentiation. Macromolecular Bioscience, 2012, 12, 882-892.	2.1	22
169	Real-time characterization of cytotoxicity using single-cell impedance monitoring. Analyst, The, 2012, 137, 3011.	1.7	22
170	Treatment of glioblastoma multiforme using a combination of small interfering RNA targeting epidermal growth factor receptor and Î²â€catenin. Journal of Gene Medicine, 2013, 15, 42-50.	1.4	22
171	Crosslinked Chitosanâ€PEG Hydrogel for Culture of Human Glioblastoma Cell Spheroids and Drug Screening. Advanced Therapeutics, 2018, 1, 1800058.	1.6	22
172	A Portable Electrospinner for Nanofiber Synthesis and Its Application for Cosmetic Treatment of Alopecia. Nanomaterials, 2019, 9, 1317.	1.9	20
173	Paclitaxelâ€Loaded Iron Oxide Nanoparticles for Targeted Breast Cancer Therapy. Advanced Therapeutics, 2019, 2, 1900081.	1.6	19
174	Single-cell-based sensors and synchrotron FTIR spectroscopy: A hybrid system towards bacterial detection. Biosensors and Bioelectronics, 2007, 23, 253-260.	5.3	18
175	siRNA Nanoparticle Suppresses Drugâ€Resistant Gene and Prolongs Survival in an Orthotopic Glioblastoma Xenograft Mouse Model. Advanced Functional Materials, 2021, 31, 2007166.	7.8	16
176	Microwave-Assisted Synthesis of Carbon Dot â€“ Iron Oxide Nanoparticles for Fluorescence Imaging and Therapy. Frontiers in Bioengineering and Biotechnology, 2021, 9, 711534.	2.0	16
177	Site-specific sonoporation of human melanoma cells at the cellular level using high lateral-resolution ultrasonic micro-transducer arrays. Biosensors and Bioelectronics, 2011, 27, 25-33.	5.3	15
178	In Vivo Safety Evaluation of Polyarginine Coated Magnetic Nanovectors. Molecular Pharmaceutics, 2013, 10, 4099-4106.	2.3	15
179	pH-Sensitive O6-Benzylguanosine Polymer Modified Magnetic Nanoparticles for Treatment of Glioblastomas. Bioconjugate Chemistry, 2017, 28, 194-202.	1.8	15
180	Chitosan-Crosslinked Low Molecular Weight PEI-Conjugated Iron Oxide Nanoparticle for Safe and Effective DNA Delivery to Breast Cancer Cells. Nanomaterials, 2022, 12, 584.	1.9	15

#	Article	IF	Citations
181	Chitosan-Alginate Porous Scaffolds Reinforced by Hydroxyapatite Nano- and Micro-Particles: Structural, Mechanical, and Biological Properties. Journal of Biomedical Nanotechnology, 2005, 1, 151-160.	0.5	14
182	A Simple and Highly Sensitive Method for Magnetic Nanoparticle Quantitation Using 1H-NMR Spectroscopy. Biophysical Journal, 2009, 97, 2640-2647.	0.2	14
183	Cancer Therapy: Cancer Nanotheranostics: Improving Imaging and Therapy by Targeted Delivery Across Biological Barriers (Adv. Mater. 36/2011). Advanced Materials, 2011, 23, H209-H209.	11.1	13
184	Design and evaluation of a nanoscale differential tensile test device for nanofibers. Applied Physics Letters, 2009, 94, 103101.	1.5	9
185	Biocompatibility of Materials. Biological and Medical Physics Series, 2004, , 83-143.	0.3	9
186	Iron oxide nanoparticle-mediated radiation delivery for glioblastoma treatment. Materials Today, 2022, 56, 66-78.	8.3	9
187	Single-Chain Semiconducting Polymer Dots. Langmuir, 2015, 31, 499-505.	1.6	8
188	Hyaluronic Acid-Coated Aligned Nanofibers for the Promotion of Glioblastoma Migration. ACS Applied Bio Materials, 2019, 2, 1088-1097.	2.3	8
189	Threeâ€dimensional macroporous calcium phosphate bioceramics with nested chitosan sponges for loadâ€bearing bone implants. Journal of Biomedical Materials Research Part B, 2002, 61, 1-8.	3.0	7
190	<title>Enhanced blood compatibility of silicon coated with a self-assembled poly(ethylene glycol) and monomethoxypoly(ethylene glycol)</title>. , 1998, 3258, 15.		6
191	Elevated Asparagine Biosynthesis Drives Brain Tumor Stem Cell Metabolic Plasticity and Resistance to Oxidative Stress. Molecular Cancer Research, 2021, 19, 1375-1388.	1.5	6
192	In vivo serum enabled production of ultrafine nanotherapeutics for cancer treatment. Materials Today, 2020, 38, 10-23.	8.3	6
193	Early detection of multi-organ metastases. Nature Biomedical Engineering, 2017, 1, 934-936.	11.6	5
194	A highly selective iron oxide-based imaging nanoparticle for long-term monitoring of drug-induced tumor cell apoptosis. Biomaterials Science, 2021, 9, 471-481.	2.6	5
195	Effects of electrode surface modification with chlorotoxin on patterning single glioma cells. Physical Chemistry Chemical Physics, 2011, 13, 8953.	1.3	4
196	Uniaxially-aligned PVDF nanofibers as a sensor and transmitter for biotelemetry. Analyst, The, 2013, 138, 7135.	1.7	4
197	Synchrotron Infrared Microspectroscopy for Assessment of Mutagenicity of Metal Implants. Materials Research Society Symposia Proceedings, 1998, 550, 163.	0.1	2
198	Intracellular uptake of poly(ethylene glycol) and folic acid modified magnetite nanoparticles. Materials Research Society Symposia Proceedings, 2001, 676, 981.	0.1	1

#	Article	IF	Citations
199	Synthesis and surface modification of superparamagnetic nanoparticles for biomedical applications. , 2002, 4810, 28.		1
200	Cocaine analogue conjugated magnetic nanoparticles for labeling and imaging dopaminergic neurons. Biomaterials Science, 2020, 8, 4166-4175.	2.6	1
201	Chitosan/Calcium Phosphate Scaffolds for Bone Tissue Engineering. Materials Research Society Symposia Proceedings, 2000, 662, 1.	0.1	0
202	Chitosan-alginate Hybrid Scaffolds for in Vitro Bone Tissue Regeneration. Materials Research Society Symposia Proceedings, 2005, 873, 1.	0.1	0
203	Editorial: Application for Nanotechnology for the Treatment of Brain Diseases and Disorders. Frontiers in Bioengineering and Biotechnology, 2021, 9, 743160.	2.0	0
204	WE-C-T-6E-03: Superparamagnetic Nanoparticles for Brain Tumor Diagnosis and Therapeutics. Medical Physics, 2005, 32, 2130-2130.	1.6	0