

Miqin Zhang

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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	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-544	14.2	2783
199	Magnetic nanoparticles in MR imaging and drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2008 , 60, 1252-1265	13.5	1949
198	Chitosan-based hydrogels for controlled, localized drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2010 , 62, 83-99	18.5	1716
197	Design and fabrication of magnetic nanoparticles for targeted drug delivery and imaging. <i>Advanced Drug Delivery Reviews</i> , 2010 , 62, 284-304	18.5	1467
196	Surface modification of superparamagnetic magnetite nanoparticles and their intracellular uptake. <i>Biomaterials</i> , 2002 , 23, 1553-61	15.6	1081
195	Chitosan-alginate hybrid scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2005 , 26, 3919-28	15.6	778
194	Electrospun chitosan-based nanofibers and their cellular compatibility. <i>Biomaterials</i> , 2005 , 26, 6176-84	15.6	739
193	PEG-grafted chitosan as an injectable thermosensitive hydrogel for sustained protein release. <i>Journal of Controlled Release</i> , 2005 , 103, 609-24	11.7	544
192	Optical and MRI multifunctional nanoprobe for targeting gliomas. <i>Nano Letters</i> , 2005 , 5, 1003-8	11.5	516
191	Methotrexate-modified superparamagnetic nanoparticles and their intracellular uptake into human cancer cells. <i>Langmuir</i> , 2005 , 21, 8858-64	4	498
190	Surface engineering of iron oxide nanoparticles for targeted cancer therapy. <i>Accounts of Chemical Research</i> , 2011 , 44, 853-62	24.3	465
189	Preparation of porous hydroxyapatite scaffolds by combination of the gel-casting and polymer sponge methods. <i>Biomaterials</i> , 2003 , 24, 3293-302	15.6	438
188	A bifunctional poly(ethylene glycol) silane immobilized on metallic oxide-based nanoparticles for conjugation with cell targeting agents. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7206-11	16.4	428
187	Cancer nanotheranostics: improving imaging and therapy by targeted delivery across biological barriers. <i>Advanced Materials</i> , 2011 , 23, H217-47	24	384
186	Magnetite nanoparticles for cancer diagnosis, treatment, and treatment monitoring: recent advances. <i>Materials Today</i> , 2016 , 19, 157-168	21.8	380
185	Biphasic calcium phosphate nanocomposite porous scaffolds for load-bearing bone tissue engineering. <i>Biomaterials</i> , 2004 , 25, 5171-80	15.6	371
184	Methotrexate-immobilized poly(ethylene glycol) magnetic nanoparticles for MR imaging and drug delivery. <i>Small</i> , 2006 , 2, 785-92	11	362

183	Proteins and cells on PEG immobilized silicon surfaces. <i>Biomaterials</i> , 1998 , 19, 953-60	15.6	361
182	Chitosan-based scaffolds for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 3161-3184	15.6	357
181	Synthesis and characterization of macroporous chitosan/calcium phosphate composite scaffolds for tissue engineering. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 55, 304-12		326
180	PEI-PEG-Chitosan Copolymer Coated Iron Oxide Nanoparticles for Safe Gene Delivery: synthesis, complexation, and transfection. <i>Advanced Functional Materials</i> , 2009 , 19, 2244-2251	15.6	323
179	Tumor paint: a chlorotoxin: Cy5.5 bioconjugate for intraoperative visualization of cancer foci. <i>Cancer Research</i> , 2007 , 67, 6882-8	10.1	322
178	Folic acid-PEG conjugated superparamagnetic nanoparticles for targeted cellular uptake and detection by MRI. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 78, 550-7	5.4	309
177	Specific targeting of brain tumors with an optical/magnetic resonance imaging nanoprobe across the blood-brain barrier. <i>Cancer Research</i> , 2009 , 69, 6200-7	10.1	305
176	Magnetite Nanoparticles for Medical MR Imaging. <i>Materials Today</i> , 2011 , 14, 330-338	21.8	298
175	In vivo MRI detection of gliomas by chlorotoxin-conjugated superparamagnetic nanoprobe. <i>Small</i> , 2008 , 4, 372-9	11	272
174	Alginate-Based Nanofibrous Scaffolds: Structural, Mechanical, and Biological Properties. <i>Advanced Materials</i> , 2006 , 18, 1463-1467	24	263
173	Multifunctional Magnetic Nanoparticles for Medical Imaging Applications. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6258-6266		253
172	Doxorubicin loaded iron oxide nanoparticles overcome multidrug resistance in cancer in vitro. <i>Journal of Controlled Release</i> , 2011 , 152, 76-83	11.7	227
171	PEG-mediated synthesis of highly dispersive multifunctional superparamagnetic nanoparticles: their physicochemical properties and function in vivo. <i>ACS Nano</i> , 2010 , 4, 2402-10	16.7	218
170	Functionalized nanoparticles with long-term stability in biological media. <i>Small</i> , 2009 , 5, 1637-41	11	200
169	Calcium phosphate/chitosan composite scaffolds for controlled in vitro antibiotic drug release. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 62, 378-86		200
168	Fabrication and cellular compatibility of aligned chitosan/PCL fibers for nerve tissue regeneration. <i>Carbohydrate Polymers</i> , 2011 , 85, 149-156	10.3	193
167	Three-dimensional macroporous calcium phosphate bioceramics with nested chitosan sponges for load-bearing bone implants. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 61, 1-8		185
166	Chlorotoxin labeled magnetic nanovectors for targeted gene delivery to glioma. <i>ACS Nano</i> , 2010 , 4, 4587-94	10.4	182

165	Chitosan-alginate as scaffolding material for cartilage tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2005 , 75, 485-93	5.4	176
164	Polyblend nanofibers for biomedical applications: perspectives and challenges. <i>Trends in Biotechnology</i> , 2010 , 28, 189-97	15.1	172
163	Preparation and characterization of nano-sized hydroxyapatite/alginate/chitosan composite scaffolds for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2015 , 54, 20-5	8.3	170
162	Highly Selective Protein Patterning on Gold/Silicon Substrates for Biosensor Applications. <i>Langmuir</i> , 2002 , 18, 6671-6678	4	169
161	Calcium phosphate-chitosan composite scaffolds for bone tissue engineering. <i>Tissue Engineering</i> , 2003 , 9, 337-45		162
160	Chitosan-alginate 3D scaffolds as a mimic of the glioma tumor microenvironment. <i>Biomaterials</i> , 2010 , 31, 5903-10	15.6	159
159	Chlorotoxin bound magnetic nanovector tailored for cancer cell targeting, imaging, and siRNA delivery. <i>Biomaterials</i> , 2010 , 31, 8032-42	15.6	157
158	Porous chitosan-hyaluronic acid scaffolds as a mimic of glioblastoma microenvironment ECM. <i>Biomaterials</i> , 2013 , 34, 10143-50	15.6	152
157	Inhibition of tumor-cell invasion with chlorotoxin-bound superparamagnetic nanoparticles. <i>Small</i> , 2009 , 5, 256-64	11	152
156	Graphene Quantum Dots and Their Applications in Bioimaging, Biosensing, and Therapy. <i>Advanced Materials</i> , 2021 , 33, e1904362	24	151
155	Anisotropic Materials for Skeletal-Muscle-Tissue Engineering. <i>Advanced Materials</i> , 2016 , 28, 10588-10612	12.4	150
154	Targeting of primary breast cancers and metastases in a transgenic mouse model using rationally designed multifunctional SPIONs. <i>ACS Nano</i> , 2012 , 6, 2591-601	16.7	144
153	Tumor-targeted drug delivery and MRI contrast enhancement by chlorotoxin-conjugated iron oxide nanoparticles. <i>Nanomedicine</i> , 2008 , 3, 495-505	5.6	144
152	Nanopore Technology for Biomedical Applications. <i>Biomedical Microdevices</i> , 1999 , 2, 11-40	3.7	142
151	Redox-responsive magnetic nanoparticle for targeted convection-enhanced delivery of O6-benzylguanine to brain tumors. <i>ACS Nano</i> , 2014 , 8, 10383-95	16.7	132
150	Chitosan-based nanofibrous membranes for antibacterial filter applications. <i>Carbohydrate Polymers</i> , 2013 , 92, 254-9	10.3	129
149	Feeder-free self-renewal of human embryonic stem cells in 3D porous natural polymer scaffolds. <i>Biomaterials</i> , 2010 , 31, 404-12	15.6	129
148	Cellular impedance biosensors for drug screening and toxin detection. <i>Analyst, The</i> , 2007 , 132, 835-41	5	129

147	Surface modification of silicon and gold-patterned silicon surfaces for improved biocompatibility and cell patterning selectivity. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 1697-708	11.8	128
146	PEG-grafted chitosan as an injectable thermoreversible hydrogel. <i>Macromolecular Bioscience</i> , 2005 , 5, 107-11	5.5	128
145	Natural-Synthetic Polyblend Nanofibers for Biomedical Applications. <i>Advanced Materials</i> , 2009 , 21, 2792-2797	2.7	126
144	Temozolomide nanoparticles for targeted glioblastoma therapy. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6674-82	9.5	115
143	pH-Sensitive siRNA nanovector for targeted gene silencing and cytotoxic effect in cancer cells. <i>Molecular Pharmaceutics</i> , 2010 , 7, 1930-9	5.6	110
142	A ligand-mediated nanovector for targeted gene delivery and transfection in cancer cells. <i>Biomaterials</i> , 2009 , 30, 649-57	15.6	106
141	Controlled synthesis and structural stability of alginate-based nanofibers. <i>Nanotechnology</i> , 2007 , 18, 455601	3.4	106
140	IL-6 promotes prostate tumorigenesis and progression through autocrine cross-activation of IGF-IR. <i>Oncogene</i> , 2011 , 30, 2345-55	9.2	105
139	Cancer cell invasion: treatment and monitoring opportunities in nanomedicine. <i>Advanced Drug Delivery Reviews</i> , 2011 , 63, 582-96	18.5	99
138	Superparamagnetic iron oxide nanoparticle-based delivery systems for biotherapeutics. <i>Expert Opinion on Drug Delivery</i> , 2013 , 10, 73-87	8	98
137	High-strength pristine porous chitosan scaffolds for tissue engineering. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6291		89
136	Proliferation and enrichment of CD133(+) glioblastoma cancer stem cells on 3D chitosan-alginate scaffolds. <i>Biomaterials</i> , 2014 , 35, 9137-43	15.6	88
135	Chitosan and lactic acid-grafted chitosan nanoparticles as carriers for prolonged drug delivery. <i>International Journal of Nanomedicine</i> , 2006 , 1, 181-7	7.3	88
134	Paramagnetic Properties of Metal-Free Boron-Doped Graphene Quantum Dots and Their Application for Safe Magnetic Resonance Imaging. <i>Advanced Materials</i> , 2017 , 29, 1605416	24	85
133	Nanoparticles for cancer gene therapy: Recent advances, challenges, and strategies. <i>Pharmacological Research</i> , 2016 , 114, 56-66	10.2	83
132	Centrifugal electrospinning of highly aligned polymer nanofibers over a large area. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18646		82
131	Cell transcytosing poly-arginine coated magnetic nanovector for safe and effective siRNA delivery. <i>Biomaterials</i> , 2011 , 32, 5717-25	15.6	80
130	A facile bottom-up route to self-assembled biogenic chitin nanofibers. <i>Soft Matter</i> , 2010 , 6, 5298	3.6	80

129	Nitrogen and Boron Dual-Doped Graphene Quantum Dots for Near-Infrared Second Window Imaging and Photothermal Therapy. <i>Applied Materials Today</i> , 2019 , 14, 108-117	6.6	80
128	Aligned chitosan-based nanofibers for enhanced myogenesis. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8904		79
127	Iron Oxide Nanoparticles as T Contrast Agents for Magnetic Resonance Imaging: Fundamentals, Challenges, Applications, and Prospectives. <i>Advanced Materials</i> , 2021 , 33, e1906539	24	79
126	Self-assembled coatings on individual monodisperse magnetite nanoparticles for efficient intracellular uptake. <i>Biomedical Microdevices</i> , 2004 , 6, 33-40	3-7	77
125	Thermoreversible poly(ethylene glycol)-g-chitosan hydrogel as a therapeutic T lymphocyte depot for localized glioblastoma immunotherapy. <i>Biomacromolecules</i> , 2014 , 15, 2656-62	6.9	74
124	Cell growth and function on calcium phosphate reinforced chitosan scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 255-60	4-5	74
123	Guided cell patterning on gold-silicon dioxide substrates by surface molecular engineering. <i>Biomaterials</i> , 2004 , 25, 3315-24	15.6	74
122	Fabrication of magnetic nanoparticles with controllable drug loading and release through a simple assembly approach. <i>Journal of Controlled Release</i> , 2012 , 162, 233-41	11.7	73
121	Chitosan-alginate scaffold culture system for hepatocellular carcinoma increases malignancy and drug resistance. <i>Pharmaceutical Research</i> , 2010 , 27, 1939-48	4-5	72
120	Influence of processing parameters on pore structure of 3D porous chitosan-alginate polyelectrolyte complex scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 98, 614-20	5-4	69
119	Influence of cell adhesion and spreading on impedance characteristics of cell-based sensors. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1307-13	11.8	69
118	Integrated bi-layered scaffold for osteochondral tissue engineering. <i>Advanced Healthcare Materials</i> , 2013 , 2, 872-83	10.1	68
117	3D porous chitosan-alginate scaffolds: a new matrix for studying prostate cancer cell-lymphocyte interactions in vitro. <i>Advanced Healthcare Materials</i> , 2012 , 1, 590-9	10.1	67
116	Rapid pharmacokinetic and biodistribution studies using cholero toxin-conjugated iron oxide nanoparticles: a novel non-radioactive method. <i>PLoS ONE</i> , 2010 , 5, e9536	3-7	66
115	Anti-HER2/neu peptide-conjugated iron oxide nanoparticles for targeted delivery of paclitaxel to breast cancer cells. <i>Nanoscale</i> , 2015 , 7, 18010-4	7-7	65
114	Chitosan-Poly(caprolactone) Nanofibers for Skin Repair. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 1822-1833		64
113	Effect of nano- and micro-scale topological features on alignment of muscle cells and commitment of myogenic differentiation. <i>Biofabrication</i> , 2014 , 6, 035012	10.5	63
112	Chitosan scaffolds with unidirectional microtubular pores for large skeletal myotube generation. <i>Advanced Healthcare Materials</i> , 2013 , 2, 557-61	10.1	59

111	Nanoparticle-Mediated Target Delivery of TRAIL as Gene Therapy for Glioblastoma. <i>Advanced Healthcare Materials</i> , 2015 , 4, 2719-26	10.1	57
110	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> , 2013 , 101, 2974-83	5.4	57
109	Magnetic Nanoparticles for Early Detection of Cancer by Magnetic Resonance Imaging. <i>MRS Bulletin</i> , 2009 , 34, 441-448	3.2	56
108	Uniaxially aligned nanofibrous cylinders by electrospinning. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4817-24	9.5	55
107	Microstructural and mechanical characterization of chitosan scaffolds reinforced by calcium phosphates. <i>Journal of Non-Crystalline Solids</i> , 2001 , 282, 159-164	3.9	55
106	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> , 2015 , 16, 3362-72	6.9	54
105	Nanoparticles for imaging and treatment of metastatic breast cancer. <i>Expert Opinion on Drug Delivery</i> , 2017 , 14, 123-136	8	54
104	Single-cell bioelectrical impedance platform for monitoring cellular response to drug treatment. <i>Physical Biology</i> , 2011 , 8, 015006	3	51
103	Theranostic Nanoparticles for RNA-Based Cancer Treatment. <i>Accounts of Chemical Research</i> , 2019 , 52, 1496-1506	24.3	50
102	Response characteristics of single-cell impedance sensors employed with surface-modified microelectrodes. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1963-9	11.8	50
101	Fundamental electronic structure and multiatomic bonding in 13 biocompatible high-entropy alloys. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	48
100	Functionalization of iron oxide magnetic nanoparticles with targeting ligands: their physicochemical properties and in vivo behavior. <i>Nanomedicine</i> , 2010 , 5, 1357-69	5.6	48
99	Glypican-3-targeted ⁸⁹ Zr PET imaging of hepatocellular carcinoma. <i>Journal of Nuclear Medicine</i> , 2014 , 55, 799-804	8.9	47
98	Three-dimensional scaffolds to evaluate tumor associated fibroblast-mediated suppression of breast tumor specific T cells. <i>Biomacromolecules</i> , 2013 , 14, 1330-7	6.9	47
97	Aligned chitosan-polycaprolactone polyblend nanofibers promote the migration of glioblastoma cells. <i>Advanced Healthcare Materials</i> , 2013 , 2, 1651-9	10.1	47
96	Short peptides enhance single cell adhesion and viability on microarrays. <i>Langmuir</i> , 2007 , 23, 4472-9	4	47
95	Effect of silicon oxidation on long-term cell selectivity of cell-patterned Au/SiO ₂ platforms. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1197-203	16.4	47
94	3D Porous Chitosan-Alginate Scaffolds Promote Proliferation and Enrichment of Cancer Stem-Like Cells. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6326-6334	7.3	47

93	Self-assembled chitin nanofiber templates for artificial neural networks. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3105		46
92	Nanoparticle mediated silencing of DNA repair sensitizes pediatric brain tumor cells to Irradiation. <i>Molecular Oncology</i> , 2015 , 9, 1071-80	7.9	45
91	Iron-Oxide-Based Nanovector for Tumor Targeted siRNA Delivery in an Orthotopic Hepatocellular Carcinoma Xenograft Mouse Model. <i>Small</i> , 2016 , 12, 477-87	11	45
90	Approach to Rapid Synthesis and Functionalization of Iron Oxide Nanoparticles for High Gene Transfection. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6320-8	9.5	45
89	Detection of drug-induced cellular changes using confocal Raman spectroscopy on patterned single-cell biosensors. <i>Analyst, The</i> , 2009 , 134, 1440-6	5	45
88	Chitosan-PEG hydrogel with sol-gel transition triggerable by multiple external stimuli. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 332-8	4.8	44
87	High-throughput and high-yield fabrication of uniaxially-aligned chitosan-based nanofibers by centrifugal electrospinning. <i>Carbohydrate Polymers</i> , 2015 , 134, 467-74	10.3	44
86	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> , 2016 , 5, 3173-3181 ^{10.1}		44
85	Bi-layer scaffold of chitosan/PCL-nanofibrous mat and PLLA-microporous disc for skin tissue engineering. <i>Journal of Biomedical Nanotechnology</i> , 2014 , 10, 1105-13	4	41
84	A multimodal targeting nanoparticle for selectively labeling T cells. <i>Small</i> , 2008 , 4, 712-5	11	41
83	Iron oxide-carbon core-shell nanoparticles for dual-modal imaging-guided photothermal therapy. <i>Journal of Controlled Release</i> , 2018 , 289, 70-78	11.7	41
82	Hemocompatible Polyethylene Glycol Films on Silicon. <i>Biomedical Microdevices</i> , 1998 , 1, 81-89	3.7	40
81	Assessing the barriers to image-guided drug delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2014 , 6, 1-14	9.2	39
80	Glypican-3-targeting F(ab) ₂ for ⁸⁹ Zr PET of hepatocellular carcinoma. <i>Journal of Nuclear Medicine</i> , 2014 , 55, 2032-7	8.9	39
79	Fabrication of 3D aligned nanofibrous tubes by direct electrospinning. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2575-2581	7.3	39
78	Ultrasensitive detection and molecular imaging with magnetic nanoparticles. <i>Analyst, The</i> , 2008 , 133, 154-60	5	39
77	Tenogenic differentiation of human bone marrow stem cells via a combinatory effect of aligned chitosan-poly-caprolactone nanofibers and TGF- β . <i>Journal of Materials Chemistry B</i> , 2013 , 1, 6516-6524	7.3	38
76	Hexanoyl-Chitosan-PEG Copolymer Coated Iron Oxide Nanoparticles for Hydrophobic Drug Delivery. <i>ACS Macro Letters</i> , 2015 , 4, 403-407	6.6	37

75	Nanofiber-based in vitro system for high myogenic differentiation of human embryonic stem cells. <i>Biomacromolecules</i> , 2013 , 14, 4207-16	6.9	37
74	Preloading of Hydrophobic Anticancer Drug into Multifunctional Nanocarrier for Multimodal Imaging, NIR-Responsive Drug Release, and Synergistic Therapy. <i>Small</i> , 2016 , 12, 6388-6397	11	37
73	Stable and efficient Paclitaxel nanoparticles for targeted glioblastoma therapy. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1236-45	10.1	36
72	Electrospun uniaxially-aligned composite nanofibers as highly-efficient piezoelectric material. <i>Ceramics International</i> , 2016 , 42, 2734-2740	5.1	36
71	Electrospinning of chitosan derivative nanofibers with structural stability in an aqueous environment. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 9969-72	3.6	36
70	Tissue response and Msx1 expression after human fetal digit tip amputation in vitro. <i>Wound Repair and Regeneration</i> , 2006 , 14, 398-404	3.6	36
69	Reduction of albumin adsorption onto silicon surfaces by Tween 20. <i>Biotechnology and Bioengineering</i> , 1997 , 56, 618-25	4.9	35
68	Fabrication and Characterization of Chitosan-Hyaluronic Acid Scaffolds with Varying Stiffness for Glioblastoma Cell Culture. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800295	10.1	34
67	Glypican-3 Targeting of Liver Cancer Cells Using Multifunctional Nanoparticles. <i>Molecular Imaging</i> , 2011 , 10, 7290.2010.00048	3.7	33
66	On-site alginate gelation for enhanced cell proliferation and uniform distribution in porous scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 86, 552-9	5.4	33
65	Nanotechnology for Treatment of Glioblastoma Multiforme. <i>Journal of Translational Internal Medicine</i> , 2018 , 6, 128-133	3	32
64	Mesoporous carbon nanoshells for high hydrophobic drug loading, multimodal optical imaging, controlled drug release, and synergistic therapy. <i>Nanoscale</i> , 2017 , 9, 1434-1442	7.7	31
63	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> , 2017 , 13, 2131-2139	6	28
62	Chitosan-based thermoreversible hydrogel as an in vitro tumor microenvironment for testing breast cancer therapies. <i>Molecular Pharmaceutics</i> , 2014 , 11, 2134-42	5.6	28
61	Immobilization of polydiacetylene onto silica microbeads for colorimetric detection. <i>Journal of Materials Chemistry</i> , 2006 , 16, 546-549		28
60	PEG-chitosan hydrogel with tunable stiffness for study of drug response of breast cancer cells. <i>Polymers</i> , 2016 , 8,	4.5	28
59	A pretargeted nanoparticle system for tumor cell labeling. <i>Molecular BioSystems</i> , 2011 , 7, 742-8		27
58	Nanoparticle Biokinetics in Mice and Nonhuman Primates. <i>ACS Nano</i> , 2017 , 11, 9514-9524	16.7	26

57	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> , 2012 , 100, 3408-3415	5.4	26
56	Chitosan-based composite bilayer scaffold as an in vitro osteochondral defect regeneration model. <i>Biomedical Microdevices</i> , 2019 , 21, 34	3.7	25
55	Chitosan-Coated Iron Oxide Nanoparticles for Molecular Imaging and Drug Delivery. <i>Advances in Polymer Science</i> , 2011 , 163-184	1.3	25
54	Glypican-3 targeting of liver cancer cells using multifunctional nanoparticles. <i>Molecular Imaging</i> , 2011 , 10, 69-77	3.7	25
53	Targeted cell uptake of a noninternalizing antibody through conjugation to iron oxide nanoparticles in primary central nervous system lymphoma. <i>World Neurosurgery</i> , 2013 , 80, 134-41	2.1	24
52	Effect of cationic side-chains on intracellular delivery and cytotoxicity of pH sensitive polymer-doxorubicin nanocarriers. <i>Nanoscale</i> , 2012 , 4, 7012-20	7.7	24
51	Gemcitabine and Chlorotoxin Conjugated Iron Oxide Nanoparticles for Glioblastoma Therapy. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 32-36	7.3	23
50	A simple material model to generate epidermal and dermal layers in vitro for skin regeneration. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5256-5264	7.3	23
49	Two-Dimensional Protein Micropatterning for Sensor Applications Through Chemical Selectivity Technique. <i>Biomedical Microdevices</i> , 2001 , 3, 45-51	3.7	23
48	Modeling the tumor microenvironment using chitosan-alginate scaffolds to control the stem-like state of glioblastoma cells. <i>Biomaterials Science</i> , 2016 , 4, 610-3	7.4	22
47	Polymeric fibrous matrices for substrate-mediated human embryonic stem cell lineage differentiation. <i>Macromolecular Bioscience</i> , 2012 , 12, 882-92	5.5	21
46	Chitosan-Gated Magnetic-Responsive Nanocarrier for Dual-Modal Optical Imaging, Switchable Drug Release, and Synergistic Therapy. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601080	10.1	20
45	CCL21 and IFN γ recruit and activate tumor specific T cells in 3D scaffold model of breast cancer. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2014 , 14, 204-10	2.2	20
44	Time-Resolved MRI Assessment of Convection-Enhanced Delivery by Targeted and Nontargeted Nanoparticles in a Human Glioblastoma Mouse Model. <i>Cancer Research</i> , 2019 , 79, 4776-4786	10.1	19
43	Biconcave Carbon Nanodisks for Enhanced Drug Accumulation and Chemo-Photothermal Tumor Therapy. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801505	10.1	18
42	Treatment of glioblastoma multiforme using a combination of small interfering RNA targeting epidermal growth factor receptor and Eatenin. <i>Journal of Gene Medicine</i> , 2013 , 15, 42-50	3.5	18
41	Bionanotechnology and the future of glioma. <i>Surgical Neurology International</i> , 2015 , 6, S45-58	1	18
40	Real-time characterization of cytotoxicity using single-cell impedance monitoring. <i>Analyst</i> , 2012 , 137, 3011-9	5	17

39	Single-cell-based sensors and synchrotron FTIR spectroscopy: a hybrid system towards bacterial detection. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 253-60	11.8	16
38	Catalase-Functionalized Iron Oxide Nanoparticles Reverse Hypoxia-Induced Chemotherapeutic Resistance. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900826	10.1	15
37	Single-layer boron-doped graphene quantum dots for contrast-enhanced in vivo T-weighted MRI. <i>Nanoscale Horizons</i> , 2020 , 5, 573-579	10.8	14
36	Recent Progress in the Synergistic Combination of Nanoparticle-Mediated Hyperthermia and Immunotherapy for Treatment of Cancer. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001415	10.1	14
35	A Portable Electrospinner for Nanofiber Synthesis and Its Application for Cosmetic Treatment of Alopecia. <i>Nanomaterials</i> , 2019 , 9,	5.4	13
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