

W Mark Saltzman

List of Publications by Citations

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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.

231
papers

16,912
citations

69
h-index

123
g-index

249
ext. papers

18,678
ext. citations

11.7
avg, IF

6.85
L-index

#	Paper	IF	Citations
231	Synthetic DNA delivery systems. <i>Nature Biotechnology</i> , 2000 , 18, 33-7	44.5	1328
230	MicroRNA silencing for cancer therapy targeted to the tumour microenvironment. <i>Nature</i> , 2015 , 518, 107-10	50.4	591
229	Enhancement of transfection by physical concentration of DNA at the cell surface. <i>Nature Biotechnology</i> , 2000 , 18, 893-5	44.5	486
228	Tissue-engineered vascular grafts transform into mature blood vessels via an inflammation-mediated process of vascular remodeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4669-74	11.5	424
227	Nanoparticle-based therapy in an in vivo microRNA-155 (miR-155)-dependent mouse model of lymphoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E1695-704	11.5	385
226	Intravaginal gene silencing using biodegradable polymer nanoparticles densely loaded with small-interfering RNA. <i>Nature Materials</i> , 2009 , 8, 526-33	27	378
225	Poly(ethylene glycol)-Conjugated PAMAM Dendrimer for Biocompatible, High-Efficiency DNA Delivery. <i>Macromolecules</i> , 2002 , 35, 3456-3462	5.5	368
224	Polymeric nanoparticles for drug delivery to the central nervous system. <i>Advanced Drug Delivery Reviews</i> , 2012 , 64, 701-5	18.5	339
223	The uptake and intracellular fate of PLGA nanoparticles in epithelial cells. <i>Biomaterials</i> , 2009 , 30, 2790-815.6	15.6	331
222	Biodegradable poly(amine-co-ester) terpolymers for targeted gene delivery. <i>Nature Materials</i> , 2011 , 11, 82-90	27	322
221	Enhanced and prolonged cross-presentation following endosomal escape of exogenous antigens encapsulated in biodegradable nanoparticles. <i>Immunology</i> , 2006 , 117, 78-88	7.8	320
220	A holistic approach to targeting disease with polymeric nanoparticles. <i>Nature Reviews Drug Discovery</i> , 2015 , 14, 239-47	64.1	298
219	PEGylated PLGA nanoparticles for the improved delivery of doxorubicin. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2009 , 5, 410-8	6	264
218	Building drug delivery into tissue engineering. <i>Nature Reviews Drug Discovery</i> , 2002 , 1, 177-86	64.1	261
217	Pharmacokinetics of the carmustine implant. <i>Clinical Pharmacokinetics</i> , 2002 , 41, 403-19	6.2	206
216	Materials for protein delivery in tissue engineering. <i>Advanced Drug Delivery Reviews</i> , 1998 , 33, 71-86	18.5	199
215	Controlled surface modification with poly(ethylene)glycol enhances diffusion of PLGA nanoparticles in human cervical mucus. <i>Molecular Pharmaceutics</i> , 2009 , 6, 173-81	5.6	193

214	Fibronectin terminated multilayer films: protein adsorption and cell attachment studies. <i>Biomaterials</i> , 2007 , 28, 851-60	15.6	192
213	The influence of microchannels on neurite growth and architecture. <i>Biomaterials</i> , 2005 , 26, 771-8	15.6	188
212	Biomaterials with hierarchically defined micro- and nanoscale structure. <i>Biomaterials</i> , 2004 , 25, 3593-601	15.6	187
211	Highly penetrative, drug-loaded nanocarriers improve treatment of glioblastoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11751-6	11.5	181
210	Surface-mediated gene transfer from nanocomposites of controlled texture. <i>Nature Materials</i> , 2004 , 3, 569-74	27	178
209	Distribution of nerve growth factor following direct delivery to brain interstitium. <i>Brain Research</i> , 1995 , 680, 196-206	3.7	176
208	Therapeutic siRNA: principles, challenges, and strategies. <i>Yale Journal of Biology and Medicine</i> , 2012 , 85, 187-200	2.4	174
207	Chemotherapeutic drugs released from polymers: distribution of 1,3-bis(2-chloroethyl)-1-nitrosourea in the rat brain. <i>Pharmaceutical Research</i> , 1996 , 13, 671-82	4.5	171
206	Improving the expansion and neuronal differentiation of mesenchymal stem cells through culture surface modification. <i>Biomaterials</i> , 2004 , 25, 1331-7	15.6	165
205	Controlled delivery of VEGF via modulation of alginate microparticle ionic crosslinking. <i>Journal of Controlled Release</i> , 2009 , 134, 26-34	11.7	154
204	Surface modification of biodegradable polyesters with fatty acid conjugates for improved drug targeting. <i>Biomaterials</i> , 2005 , 26, 5727-36	15.6	153
203	Octa-functional PLGA nanoparticles for targeted and efficient siRNA delivery to tumors. <i>Biomaterials</i> , 2012 , 33, 583-91	15.6	143
202	A self-assembled, modular DNA delivery system mediated by silica nanoparticles. <i>Journal of Controlled Release</i> , 2004 , 95, 333-41	11.7	142
201	Controlled release for local delivery of drugs: barriers and models. <i>Journal of Controlled Release</i> , 2014 , 190, 664-73	11.7	135
200	Controlled DNA delivery systems. <i>Pharmaceutical Research</i> , 1999 , 16, 1300-8	4.5	128
199	Organosilicate-polymer drug delivery systems: controlled release and enhanced mechanical properties. <i>Journal of Controlled Release</i> , 2003 , 90, 163-9	11.7	121
198	Transplantation of brain cells assembled around a programmable synthetic microenvironment. <i>Nature Biotechnology</i> , 2001 , 19, 934-9	44.5	121
197	Tissue-engineered vascular grafts form neovessels that arise from regeneration of the adjacent blood vessel. <i>FASEB Journal</i> , 2011 , 25, 2731-9	0.9	120

196	Nanotherapy for Cancer: Targeting and Multifunctionality in the Future of Cancer Therapies. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 64-78	5.5	118
195	A sunblock based on bioadhesive nanoparticles. <i>Nature Materials</i> , 2015 , 14, 1278-85	27	114
194	In vivo correction of anaemia in β -thalassemic mice by gRNA-mediated gene editing with nanoparticle delivery. <i>Nature Communications</i> , 2016 , 7, 13304	17.4	107
193	Improved cell adhesion and proliferation on synthetic phosphonic acid-containing hydrogels. <i>Biomaterials</i> , 2005 , 26, 3663-71	15.6	105
192	miR-34a Silences c-SRC to Attenuate Tumor Growth in Triple-Negative Breast Cancer. <i>Cancer Research</i> , 2016 , 76, 927-39	10.1	103
191	Partial correction of cystic fibrosis defects with PLGA nanoparticles encapsulating curcumin. <i>Molecular Pharmaceutics</i> , 2010 , 7, 86-93	5.6	103
190	In vivo distribution of surface-modified PLGA nanoparticles following intravaginal delivery. <i>Journal of Controlled Release</i> , 2011 , 156, 258-64	11.7	100
189	Enhanced siRNA delivery into cells by exploiting the synergy between targeting ligands and cell-penetrating peptides. <i>Biomaterials</i> , 2011 , 32, 6194-203	15.6	98
188	Poly(omega-pentadecalactone-co-butylene-co-succinate) nanoparticles as biodegradable carriers for camptothecin delivery. <i>Biomaterials</i> , 2009 , 30, 5707-19	15.6	93
187	High loading efficiency and tunable release of plasmid DNA encapsulated in submicron particles fabricated from PLGA conjugated with poly-L-lysine. <i>Journal of Controlled Release</i> , 2008 , 129, 66-72	11.7	92
186	Controlled release of nerve growth factor from a polymeric implant. <i>Brain Research</i> , 1990 , 515, 309-11	3.7	92
185	Novel delivery strategies for glioblastoma. <i>Cancer Journal (Sudbury, Mass)</i> , 2012 , 18, 89-99	2.2	91
184	Nanotechnology for delivery of drugs to the brain for epilepsy. <i>Neurotherapeutics</i> , 2009 , 6, 323-36	6.4	90
183	Cellular fate of a modular DNA delivery system mediated by silica nanoparticles. <i>Biotechnology Progress</i> , 2005 , 21, 532-7	2.8	90
182	The effect of hyperbranched polyglycerol coatings on drug delivery using degradable polymer nanoparticles. <i>Biomaterials</i> , 2014 , 35, 6595-602	15.6	89
181	Nanoparticles that deliver triplex-forming peptide nucleic acid molecules correct F508del CFTR in airway epithelium. <i>Nature Communications</i> , 2015 , 6, 6952	17.4	88
180	Mathematical modeling of molecular diffusion through mucus. <i>Advanced Drug Delivery Reviews</i> , 2009 , 61, 101-14	18.5	88
179	Controlled release of dopamine from a polymeric brain implant: in vivo characterization. <i>Annals of Neurology</i> , 1989 , 25, 351-6	9.4	88

178	Convection-enhanced delivery of camptothecin-loaded polymer nanoparticles for treatment of intracranial tumors. <i>Drug Delivery and Translational Research</i> , 2011 , 1, 34-42	6.2	87
177	Intracranial delivery of recombinant nerve growth factor: release kinetics and protein distribution for three delivery systems. <i>Pharmaceutical Research</i> , 1999 , 16, 232-40	4.5	87
176	New methods for direct delivery of chemotherapy for treating brain tumors. <i>Yale Journal of Biology and Medicine</i> , 2006 , 79, 141-52	2.4	87
175	In utero nanoparticle delivery for site-specific genome editing. <i>Nature Communications</i> , 2018 , 9, 2481	17.4	87
174	Polymer nanoparticles encapsulating siRNA for treatment of HSV-2 genital infection. <i>Journal of Controlled Release</i> , 2012 , 162, 102-10	11.7	83
173	Dilation and degradation of the brain extracellular matrix enhances penetration of infused polymer nanoparticles. <i>Brain Research</i> , 2007 , 1180, 121-32	3.7	83
172	Dual delivery of VEGF and MCP-1 to support endothelial cell transplantation for therapeutic vascularization. <i>Biomaterials</i> , 2010 , 31, 3054-62	15.6	81
171	Polymer nanoparticles containing tumor lysates as antigen delivery vehicles for dendritic cell-based antitumor immunotherapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011 , 7, 1-10	6	80
170	Transport and elimination of recombinant human NGF during long-term delivery to the brain. <i>Brain Research</i> , 1996 , 727, 169-81	3.7	79
169	Nanosystems for simultaneous imaging and drug delivery to T cells. <i>AAPS Journal</i> , 2007 , 9, E171-80	3.7	77
168	A PEDF N-terminal peptide protects the retina from ischemic injury when delivered in PLGA nanospheres. <i>Experimental Eye Research</i> , 2006 , 83, 824-33	3.7	76
167	An electrospun scaffold integrating nucleic acid delivery for treatment of full-thickness wounds. <i>Biomaterials</i> , 2013 , 34, 3891-901	15.6	73
166	Polymer nanoparticle-mediated delivery of microRNA inhibition and alternative splicing. <i>Molecular Pharmaceutics</i> , 2012 , 9, 1481-8	5.6	71
165	Cell penetrating peptide-modified poly(lactic-co-glycolic acid) nanoparticles with enhanced cell internalization. <i>Acta Biomaterialia</i> , 2016 , 30, 49-61	10.8	70
164	Nanoparticles deliver triplex-forming PNAs for site-specific genomic recombination in CD34+ human hematopoietic progenitors. <i>Molecular Therapy</i> , 2011 , 19, 172-80	11.7	70
163	Centrifugal seeding increases seeding efficiency and cellular distribution of bone marrow stromal cells in porous biodegradable scaffolds. <i>Tissue Engineering</i> , 2007 , 13, 2743-9		69
162	Nanoparticle targeting to the endothelium during normothermic machine perfusion of human kidneys. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	67
161	Three Dimensional Bioprinting of a Vascularized and Perfusable Skin Graft Using Human Keratinocytes, Fibroblasts, Pericytes, and Endothelial Cells. <i>Tissue Engineering - Part A</i> , 2020 , 26, 227-238 ^{3,9}		67

160	Enhancement of surface ligand display on PLGA nanoparticles with amphiphilic ligand conjugates. <i>Journal of Controlled Release</i> , 2011 , 156, 109-15	11.7	65
159	Diffusion of nerve growth factor in rat striatum as determined by multiphoton microscopy. <i>Biophysical Journal</i> , 2003 , 85, 581-8	2.9	63
158	Surface modified poly(L-amino ester)-containing nanoparticles for plasmid DNA delivery. <i>Journal of Controlled Release</i> , 2012 , 164, 41-8	11.7	62
157	Oral immunization with an anti-idiotypic antibody to the exoglycolipid antigen protects against experimental <i>Chlamydia trachomatis</i> infection. <i>Nature Medicine</i> , 1996 , 2, 1116-21	50.5	62
156	Sustained delivery of proangiogenic microRNA-132 by nanoparticle transfection improves endothelial cell transplantation. <i>FASEB Journal</i> , 2014 , 28, 908-22	0.9	61
155	Biodegradable Microspheres with Enhanced Capacity for Covalently Bound Surface Ligands. <i>Macromolecules</i> , 2004 , 37, 9779-9784	5.5	61
154	Therapeutic Peptide Nucleic Acids: Principles, Limitations, and Opportunities. <i>Yale Journal of Biology and Medicine</i> , 2017 , 90, 583-598	2.4	61
153	The nanomaterial-dependent modulation of dendritic cells and its potential influence on therapeutic immunosuppression in lupus. <i>Biomaterials</i> , 2014 , 35, 1089-95	15.6	57
152	Cell aggregation and neurite growth in gels of extracellular matrix molecules. <i>Biotechnology and Bioengineering</i> , 1994 , 43, 555-62	4.9	57
151	Systemic delivery of triplex-forming PNA and donor DNA by nanoparticles mediates site-specific genome editing of human hematopoietic cells in vivo. <i>Gene Therapy</i> , 2013 , 20, 658-69	4	56
150	Ex vivo pretreatment of human vessels with siRNA nanoparticles provides protein silencing in endothelial cells. <i>Nature Communications</i> , 2017 , 8, 191	17.4	55
149	In vitro cytotoxicity and in vivo distribution after direct delivery of PEG-camptothecin conjugates to the rat brain. <i>Bioconjugate Chemistry</i> , 2004 , 15, 1364-75	6.3	54
148	Multi-layered nanoparticles for combination gene and drug delivery to tumors. <i>Biomaterials</i> , 2014 , 35, 9343-54	15.6	53
147	Engineering of multifunctional gels integrating highly efficient growth factor delivery with endothelial cell transplantation. <i>FASEB Journal</i> , 2008 , 22, 2949-56	0.9	53
146	Surface-modified nanoparticles enhance transurothelial penetration and delivery of survivin siRNA in treating bladder cancer. <i>Molecular Cancer Therapeutics</i> , 2014 , 13, 71-81	6.1	52
145	Systemic delivery of blood-brain barrier-targeted polymeric nanoparticles enhances delivery to brain tissue. <i>Journal of Drug Targeting</i> , 2015 , 23, 736-49	5.4	51
144	Peptide Nucleic Acids as a Tool for Site-Specific Gene Editing. <i>Molecules</i> , 2018 , 23,	4.8	51
143	PC12 cell aggregation and neurite growth in gels of collagen, laminin and fibronectin. <i>International Journal of Developmental Neuroscience</i> , 1996 , 14, 351-64	2.7	51

142	Surface chemistry governs cellular tropism of nanoparticles in the brain. <i>Nature Communications</i> , 2017 , 8, 15322	17.4	50
141	Nanoparticle-mediated intratumoral inhibition of miR-21 for improved survival in glioblastoma. <i>Biomaterials</i> , 2019 , 201, 87-98	15.6	49
140	Stabilization of nerve growth factor in controlled release polymers and in tissue. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1996 , 8, 103-17	3.5	49
139	Controlled vaginal delivery of antibodies in the mouse. <i>Biology of Reproduction</i> , 1992 , 47, 133-40	3.9	49
138	Controlled release of proteins to tissue transplants for the treatment of neurodegenerative disorders. <i>Journal of Pharmaceutical Sciences</i> , 1996 , 85, 1276-81	3.9	48
137	Distribution of polymer nanoparticles by convection-enhanced delivery to brain tumors. <i>Journal of Controlled Release</i> , 2016 , 232, 103-12	11.7	48
136	Efficient gene disruption in cultured primary human endothelial cells by CRISPR/Cas9. <i>Circulation Research</i> , 2015 , 117, 121-8	15.7	47
135	Gene expression and mucosal immune responses after vaginal DNA immunization in mice using a controlled delivery matrix. <i>Journal of Controlled Release</i> , 2003 , 86, 339-48	11.7	46
134	Micron-scale positioning of features influences the rate of polymorphonuclear leukocyte migration. <i>Biophysical Journal</i> , 2001 , 81, 2569-79	2.9	46
133	PEGylated squalenoyl-gemcitabine nanoparticles for the treatment of glioblastoma. <i>Biomaterials</i> , 2016 , 105, 136-144	15.6	46
132	Focus on Fundamentals: Achieving Effective Nanoparticle Targeting. <i>Trends in Molecular Medicine</i> , 2018 , 24, 598-606	11.5	45
131	Pericytes modulate endothelial sprouting. <i>Cardiovascular Research</i> , 2013 , 100, 492-500	9.9	45
130	Anti-tumor Activity of miniPEG-Modified PNAs to Inhibit MicroRNA-210 for Cancer Therapy. <i>Molecular Therapy - Nucleic Acids</i> , 2017 , 9, 111-119	10.7	45
129	Biodegradation, biocompatibility, and drug delivery in poly(ϵ -pentadecalactone-co-p-dioxanone) copolyesters. <i>Biomaterials</i> , 2011 , 32, 6646-54	15.6	45
128	Bioengineering approaches to controlled protein delivery. <i>Pediatric Research</i> , 2008 , 63, 513-9	3.2	45
127	Growth versus function in the three-dimensional culture of single and aggregated hepatocytes within collagen gels. <i>Biotechnology Progress</i> , 1993 , 9, 600-7	2.8	45
126	Blocking MHC class II on human endothelium mitigates acute rejection. <i>JCI Insight</i> , 2016 , 1,	9.9	44
125	Nanoparticles for urothelium penetration and delivery of the histone deacetylase inhibitor belinostat for treatment of bladder cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 1124-34	6	43

124	Improved i.p. drug delivery with bioadhesive nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11453-11458	11.5	43
123	Human aortic smooth muscle cells promote arteriole formation by coengrafted endothelial cells. <i>Tissue Engineering - Part A</i> , 2009 , 15, 165-73	3.9	42
122	Distribution of drugs following controlled delivery to the brain interstitium. <i>Journal of Neuro-Oncology</i> , 1995 , 26, 91-102	4.8	42
121	Cell-binding peptides conjugated to poly(ethylene glycol) promote neural cell aggregation. <i>Nature Biotechnology</i> , 1994 , 12, 797-801	44.5	42
120	Canonical and non-canonical barriers facing anti-miR cancer therapeutics. <i>Current Medicinal Chemistry</i> , 2013 , 20, 3582-93	4.3	41
119	Polymeric vehicles for nucleic acid delivery. <i>Advanced Drug Delivery Reviews</i> , 2020 , 156, 119-132	18.5	39
118	Nanotechnology for delivery of peptide nucleic acids (PNAs). <i>Journal of Controlled Release</i> , 2016 , 240, 302-311	11.7	39
117	Enzyme-synthesized poly(amine-co-esters) as nonviral vectors for gene delivery. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 96, 456-65	5.4	39
116	Imaging the delivery of brain-penetrating PLGA nanoparticles in the brain using magnetic resonance. <i>Journal of Neuro-Oncology</i> , 2015 , 121, 441-9	4.8	38
115	The behavioral and biochemical effects of BDNF containing polymers implanted in the hippocampus of rats. <i>Brain Research</i> , 2010 , 1321, 40-50	3.7	38
114	Localized delivery of proteins in the brain: can transport be customized?. <i>Pharmaceutical Research</i> , 1998 , 15, 377-85	4.5	38
113	Radiolabeling of poly(lactic-co-glycolic acid) (PLGA) nanoparticles with biotinylated F-18 prosthetic groups and imaging of their delivery to the brain with positron emission tomography. <i>Bioconjugate Chemistry</i> , 2014 , 25, 2157-65	6.3	37
112	Degradable bioadhesive nanoparticles for prolonged intravaginal delivery and retention of elvitegravir. <i>Biomaterials</i> , 2017 , 144, 144-154	15.6	37
111	In vitro evaluation of biodegradable microspheres with surface-bound ligands. <i>Journal of Controlled Release</i> , 2006 , 110, 574-80	11.7	35
110	Fibroblast and hepatocyte behavior on synthetic polymer surfaces. <i>Journal of Biomedical Materials Research Part B</i> , 1991 , 25, 741-59		35
109	Oligosaccharyltransferase inhibition overcomes therapeutic resistance to EGFR tyrosine kinase inhibitors. <i>Cancer Research</i> , 2018 , 78, 5094-5106	10.1	34
108	The effect of inflammatory cell-derived MCP-1 loss on neuronal survival during chronic neuroinflammation. <i>Biomaterials</i> , 2014 , 35, 6698-706	15.6	34
107	Poly(lactide-co-glycolide) nanoparticle assembly for highly efficient delivery of potent therapeutic agents from medical devices. <i>Biomaterials</i> , 2010 , 31, 3631-42	15.6	33

106	Controlled antibody release from a matrix of poly(ethylene-co-vinyl acetate) fractionated with a supercritical fluid. <i>Journal of Applied Polymer Science</i> , 1993 , 48, 1493-1500	2.9	33
105	A "top-down" approach to actuate poly(amine-co-ester) terpolymers for potent and safe mRNA delivery. <i>Biomaterials</i> , 2018 , 176, 122-130	15.6	33
104	Biodegradable PEG-poly(ϵ -pentadecalactone-co-p-dioxanone) nanoparticles for enhanced and sustained drug delivery to treat brain tumors. <i>Biomaterials</i> , 2018 , 178, 193-203	15.6	32
103	Influence of synthetic polymers on neutrophil migration in three-dimensional collagen gels. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 46, 465-74		32
102	Modified poly(lactic-co-glycolic acid) nanoparticles for enhanced cellular uptake and gene editing in the lung. <i>Advanced Healthcare Materials</i> , 2015 , 4, 361-6	10.1	31
101	Quantitating Endosomal Escape of a Library of Polymers for mRNA Delivery. <i>Nano Letters</i> , 2020 , 20, 1117-1123	11.4	31
100	Biomimetic design in microparticulate vaccines. <i>Biomaterials</i> , 2003 , 24, 4435-43	15.6	30
99	Synthesis and characterization of polymer-(multi)-peptide conjugates for control of specific cell aggregation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998 , 9, 207-26	3.5	29
98	From in silico hit to long-acting late-stage preclinical candidate to combat HIV-1 infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E802-E811	11.5	28
97	Parameter estimation methodology in a model of hydrophobic drug release from a polymer coating. <i>Journal of Controlled Release</i> , 2010 , 142, 474-82	11.7	28
96	Residence half-life of IgG administered topically to the mouse vagina. <i>Biology of Reproduction</i> , 1996 , 54, 264-9	3.9	28
95	Multiphoton microscopy guides neurotrophin modification with poly(ethylene glycol) to enhance interstitial diffusion. <i>Nature Materials</i> , 2004 , 3, 489-94	27	27
94	Regeneration of mammalian cochlear and vestibular hair cells through Hes1/Hes5 modulation with siRNA. <i>Hearing Research</i> , 2013 , 304, 91-110	3.9	26
93	Impact of cell type and density on nerve growth factor distribution and bioactivity in 3-dimensional collagen gel cultures. <i>Tissue Engineering</i> , 2006 , 12, 1915-27		26
92	Growth-Factor Delivery in Tissue Engineering. <i>MRS Bulletin</i> , 1996 , 21, 62-65	3.2	26
91	Dual-Targeting Nanoparticles for In Vivo Delivery of Suicide Genes to Chemotherapy-Resistant Ovarian Cancer Cells. <i>Molecular Cancer Therapeutics</i> , 2017 , 16, 323-333	6.1	24
90	Peptide Nucleic Acids and Gene Editing: Perspectives on Structure and Repair. <i>Molecules</i> , 2020 , 25,	4.8	24
89	Biodegradable meshes printed with extracellular matrix proteins support micropatterned hepatocyte cultures. <i>Tissue Engineering - Part A</i> , 2009 , 15, 1169-79	3.9	24

88	A nanoscopic multivalent antigen-presenting carrier for sensitive detection and drug delivery to T cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2007 , 3, 75-85	6	24
87	Quantitative image analysis for developing microstructural descriptions of heterogeneous materials. <i>Chemical Engineering Science</i> , 1987 , 42, 1989-2004	4.4	24
86	Pigment epithelium-derived factor restoration increases bone mass and improves bone plasticity in a model of osteogenesis imperfecta type VI via Wnt3a blockade. <i>FASEB Journal</i> , 2016 , 30, 2837-48	0.9	24
85	Nanoparticle delivery of miR-223 to attenuate macrophage fusion. <i>Biomaterials</i> , 2016 , 89, 127-35	15.6	23
84	Tunability of Biodegradable Poly(amine- co-ester) Polymers for Customized Nucleic Acid Delivery and Other Biomedical Applications. <i>Biomacromolecules</i> , 2018 , 19, 3861-3873	6.9	23
83	Optimizing biodegradable nanoparticle size for tissue-specific delivery. <i>Journal of Controlled Release</i> , 2019 , 314, 92-101	11.7	23
82	Controlling human polymorphonuclear leukocytes motility using microfabrication technology. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 51, 694-702		23
81	Synthesis and biological activity of polyethylene glycol-mouse nerve growth factor conjugate. <i>Bioconjugate Chemistry</i> , 1999 , 10, 932-7	6.3	23
80	Fibroblast aggregation by suspension with conjugates of poly(ethylene glycol) and RGD 1996 , 50, 349		23
79	Local DNA Repair Inhibition for Sustained Radiosensitization of High-Grade Gliomas. <i>Molecular Cancer Therapeutics</i> , 2017 , 16, 1456-1469	6.1	22
78	Nanomedicine gets personal. <i>Science Translational Medicine</i> , 2015 , 7, 314fs47	17.5	22
77	Paracrine exchanges of molecular signals between alginate-encapsulated pericytes and freely suspended endothelial cells within a 3D protein gel. <i>Biomaterials</i> , 2013 , 34, 8899-908	15.6	22
76	Polymeric controlled delivery for immunization. <i>Trends in Biotechnology</i> , 1997 , 15, 364-9	15.1	22
75	Topical antibody delivery systems produce sustained levels in mucosal tissue and blood. <i>Nature Biotechnology</i> , 1998 , 16, 163-7	44.5	22
74	Clostridium perfringens enterotoxin C-terminal domain labeled to fluorescent dyes for in vivo visualization of micrometastatic chemotherapy-resistant ovarian cancer. <i>International Journal of Cancer</i> , 2015 , 137, 2618-29	7.5	21
73	Ligand-modified gene carriers increased uptake in target cells but reduced DNA release and transfection efficiency. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010 , 6, 334-43	6	21
72	Effect of extracellular matrix elements on the transport of paclitaxel through an arterial wall tissue mimic. <i>Biomacromolecules</i> , 2008 , 9, 2792-8	6.9	21
71	Dextran retention in the rat brain following release from a polymer implant. <i>Biotechnology Progress</i> , 1992 , 8, 527-32	2.8	21

70	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , 2021 , 592, 195-204	50.4	21
69	Synergistic tumor suppression by combined inhibition of telomerase and CDKN1A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E3062-71	11.5	20
68	Nanomaterials for convection-enhanced delivery of agents to treat brain tumors. <i>Current Opinion in Biomedical Engineering</i> , 2017 , 4, 1-12	4.4	19
67	Oligosaccharyltransferase Inhibition Reduces Receptor Tyrosine Kinase Activation and Enhances Glioma Radiosensitivity. <i>Clinical Cancer Research</i> , 2019 , 25, 784-795	12.9	19
66	Prevention of - and -mediated intravaginal tumors by treatment with camptothecin-loaded PLGA nanoparticles. <i>Drug Delivery and Translational Research</i> , 2011 , 1, 383-394	6.2	19
65	Vaccine delivery by polymeric vehicles in the mouse reproductive tract induces sustained local and systemic immunity. <i>Molecular Pharmaceutics</i> , 2010 , 7, 1585-95	5.6	19
64	Development of a model system for preliminary evaluation of tissue-engineered vascular conduits. <i>Journal of Pediatric Surgery</i> , 2006 , 41, 787-91	2.6	19
63	Long-term vaginal antibody delivery: Delivery systems and biodistribution 2000 , 67, 253-264		19
62	Simultaneous release of multiple molecules from poly(lactide-co-glycolide) nanoparticles assembled onto medical devices. <i>Biomaterials</i> , 2009 , 30, 4889-97	15.6	17
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