W Mark Saltzman

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.

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	Unadjuvanted intranasal spike vaccine booster elicits robust protective mucosal immunity against sarbecoviruses. **2022**,		6
230	Long-acting and extended-release implant and nanoformulations with a synergistic antiretroviral two-drug combination controls HIV-1 infection in a humanized mouse model.. *Bioengineering and Translational Medicine*, **2022**, 7, e10237	14.8	0
229	A digital pathology tool for quantification of color features in histologic specimens.. *Bioengineering and Translational Medicine*, **2022**, 7, e10242	14.8	
228	Surface conjugation of antibodies improves nanoparticle uptake in bronchial epithelial cells.. *PLoS ONE*, **2022**, 17, e0266218	3.7	1
227	ZNF117 regulates glioblastoma stem cell differentiation towards oligodendroglial lineage.. *Nature Communications*, **2022**, 13, 2196	17.4	0
226	Intrathecal Delivery and its Applications in Leptomeningeal Disease.. *Advanced Drug Delivery Reviews*, **2022**, 114338	18.5	2
225	Surface Topography of Polyethylene Glycol Shell Nanoparticles Formed from Bottlebrush Block Copolymers Controls Interactions with Proteins and Cells. *ACS Nano*, **2021**, 15, 16118-16129	16.7	2
224	Direct targeting of amplified gene loci for proapoptotic anticancer therapy. *Nature Biotechnology*, **2021**,	44.5	2
223	Nanoparticles for delivery of agents to fetal lungs. *Acta Biomaterialia*, **2021**, 123, 346-353	10.8	5
222	Macrophage-derived PDGF-B induces muscularization in murine and human pulmonary hypertension. *JCI Insight*, **2021**, 6,	9.9	9
221	Engineering alginate microparticles for optimized accumulation in Fetal Rat Myelomeningocele. *Journal of Pediatric Surgery*, **2021**,	2.6	1
220	The NIH Somatic Cell Genome Editing program. *Nature*, **2021**, 592, 195-204	50.4	21
219	Nanoparticle-mediated convection-enhanced delivery of a DNA intercalator to gliomas circumvents temozolomide resistance. *Nature Biomedical Engineering*, **2021**, 5, 1048-1058	19	16
218	PEGylation of poly(amine-co-ester) polyplexes for tunable gene delivery. *Biomaterials*, **2021**, 272, 120780	15.6	12
217	Escaping the endosome: assessing cellular trafficking mechanisms of non-viral vehicles. *Journal of Controlled Release*, **2021**, 335, 465-480	11.7	15
216	Lysis of cold-storage-induced microvascular obstructions for ex vivo revitalization of marginal human kidneys. *American Journal of Transplantation*, **2021**, 21, 161-173	8.7	13
215	Nonsurgical treatment of skin cancer with local delivery of bioadhesive nanoparticles. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	5

214	Extracellular vesicles mediated exocytosis of antisense peptide nucleic acids. *Molecular Therapy - Nucleic Acids*, **2021**, 25, 302-315	10.7	3
213	Polymeric vehicles for nucleic acid delivery. *Advanced Drug Delivery Reviews*, **2020**, 156, 119-132	18.5	39
212	Ex vivo isolated human vessel perfusion system for the design and assessment of nanomedicines targeted to the endothelium. *Bioengineering and Translational Medicine*, **2020**, 5, e10154	14.8	1
211	High-throughput quantitative microscopy-based half-life measurements of intravenously injected agents. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 3502-3508	11.5	3
210	Peptide Nucleic Acids and Gene Editing: Perspectives on Structure and Repair. *Molecules*, **2020**, 25,	4.8	24
209	Cell interactions with polymers **2020**, 275-293		0
208	Quantitating Endosomal Escape of a Library of Polymers for mRNA Delivery. *Nano Letters*, **2020**, 20, 1117-1123	11.5	31
207	Three Dimensional Bioprinting of a Vascularized and Perfusable Skin Graft Using Human Keratinocytes, Fibroblasts, Pericytes, and Endothelial Cells. *Tissue Engineering - Part A*, **2020**, 26, 227-238	3.9	67
206	Poly(Lactic-co-Glycolic Acid) Nanoparticle Delivery of Peptide Nucleic Acids In Vivo. *Methods in Molecular Biology*, **2020**, 2105, 261-281	1.4	8
205	Fas ligand and nitric oxide combination to control smooth muscle growth while sparing endothelium. *Biomaterials*, **2019**, 212, 28-38	15.6	8
204	Structural and pharmacological evaluation of a novel non-nucleoside reverse transcriptase inhibitor as a promising long acting nanoformulation for treating HIV. *Antiviral Research*, **2019**, 167, 110-116	10.8	13
203	Poly(amine-co-ester) nanoparticles for effective Nogo-B knockdown in the liver. *Journal of Controlled Release*, **2019**, 304, 259-267	11.7	12
202	The Yale Center for Biomedical Innovation and Technology (CBIT): One Model to Accelerate Impact From Academic Health Care Innovation. *Academic Medicine*, **2019**, 94, 528-534	3.9	7
201	Nanoparticle-mediated intratumoral inhibition of miR-21 for improved survival in glioblastoma. *Biomaterials*, **2019**, 201, 87-98	15.6	49
200	Biodegradable bioadhesive nanoparticle incorporation of broad-spectrum organic sunscreen agents. *Bioengineering and Translational Medicine*, **2019**, 4, 129-140	14.8	15
199	Oligosaccharyltransferase Inhibition Reduces Receptor Tyrosine Kinase Activation and Enhances Glioma Radiosensitivity. *Clinical Cancer Research*, **2019**, 25, 784-795	12.9	19
198	Optimizing biodegradable nanoparticle size for tissue-specific delivery. *Journal of Controlled Release*, **2019**, 314, 92-101	11.7	23
197	Progenitor-derived human endothelial cells evade alloimmunity by CRISPR/Cas9-mediated complete ablation of MHC expression. *JCI Insight*, **2019**, 4,	9.9	8

196	Glycoprotein-130 Expression Is Associated with Aggressive Bladder Cancer and Is a Potential Therapeutic Target. *Molecular Cancer Therapeutics*, **2019**, 18, 413-420	6.1	8
195	Alginate microparticles loaded with basic fibroblast growth factor induce tissue coverage in a rat model of myelomeningocele. *Journal of Pediatric Surgery*, **2019**, 54, 80-85	2.6	12
194	From in silico hit to long-acting late-stage preclinical candidate to combat HIV-1 infection. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E802-E811	11.5	28
193	Peptide Nucleic Acids as a Tool for Site-Specific Gene Editing. *Molecules*, **2018**, 23,	4.8	51
192	Oligosaccharyltransferase Inhibition Overcomes Therapeutic Resistance to EGFR Tyrosine Kinase Inhibitors. *Cancer Research*, **2018**, 78, 5094-5106	10.1	34
191	Tunability of Biodegradable Poly(amine- co-ester) Polymers for Customized Nucleic Acid Delivery and Other Biomedical Applications. *Biomacromolecules*, **2018**, 19, 3861-3873	6.9	23
190	Reply to Pandey et al.: Understanding the efficacy of a potential antiretroviral drug candidate in humanized mouse model of HIV infection. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E8114-E8115	11.5	
189	Focus on Fundamentals: Achieving Effective Nanoparticle Targeting. *Trends in Molecular Medicine*, **2018**, 24, 598-606	11.5	45
188	Biodegradable PEG-poly(Ɛpentadecalactone-co-p-dioxanone) nanoparticles for enhanced and sustained drug delivery to treat brain tumors. *Biomaterials*, **2018**, 178, 193-203	15.6	32
187	Debugging the genetic code: non-viral delivery of therapeutic genome editing technologies. *Current Opinion in Biomedical Engineering*, **2018**, 7, 24-32	4.4	6
186	A "top-down" approach to actuate poly(amine-co-ester) terpolymers for potent and safe mRNA delivery. *Biomaterials*, **2018**, 176, 122-130	15.6	33
185	In utero nanoparticle delivery for site-specific genome editing. *Nature Communications*, **2018**, 9, 2481	17.4	87
184	Quantitative microscopy-based measurements of circulating nanoparticle concentration using microliter blood volumes. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2017**, 13, 1863-1867	6	5
183	Surface chemistry governs cellular tropism of nanoparticles in the brain. *Nature Communications*, **2017**, 8, 15322	17.4	50
182	Local DNA Repair Inhibition for Sustained Radiosensitization of High-Grade Gliomas. *Molecular Cancer Therapeutics*, **2017**, 16, 1456-1469	6.1	22
181	Dual-Targeting Nanoparticles for In Vivo Delivery of Suicide Genes to Chemotherapy-Resistant Ovarian Cancer Cells. *Molecular Cancer Therapeutics*, **2017**, 16, 323-333	6.1	24
180	Nanomaterials for convection-enhanced delivery of agents to treat brain tumors. *Current Opinion in Biomedical Engineering*, **2017**, 4, 1-12	4.4	19
179	Improved threshold selection for the determination of volume of distribution of nanoparticles administered by convection-enhanced delivery. *Computerized Medical Imaging and Graphics*, **2017**, 62, 34-40	7.6	3

178	Ex vivo pretreatment of human vessels with siRNA nanoparticles provides protein silencing in endothelial cells. *Nature Communications*, **2017**, 8, 191	17.4	55
177	Degradable bioadhesive nanoparticles for prolonged intravaginal delivery and retention of elvitegravir. *Biomaterials*, **2017**, 144, 144-154	15.6	37
176	Nanoparticle targeting to the endothelium during normothermic machine perfusion of human kidneys. *Science Translational Medicine*, **2017**, 9,	17.5	67
175	Anti-tumor Activity of miniPEG-Modified PNAs to Inhibit MicroRNA-210 for Cancer Therapy. *Molecular Therapy - Nucleic Acids*, **2017**, 9, 111-119	10.7	45
174	Therapeutic Peptide Nucleic Acids: Principles, Limitations, and Opportunities. *Yale Journal of Biology and Medicine*, **2017**, 90, 583-598	2.4	61
173	In vivo correction of anaemia in thalassemic mice by PNA-mediated gene editing with nanoparticle delivery. *Nature Communications*, **2016**, 7, 13304	17.4	107
172	Nanotechnology for delivery of peptide nucleic acids (PNAs). *Journal of Controlled Release*, **2016**, 240, 302-311	11.7	39
171	Nanoparticle delivery of miR-223 to attenuate macrophage fusion. *Biomaterials*, **2016**, 89, 127-35	15.6	23
170	miR-34a Silences c-SRC to Attenuate Tumor Growth in Triple-Negative Breast Cancer. *Cancer Research*, **2016**, 76, 927-39	10.1	103
169	Cell penetrating peptide-modified poly(lactic-co-glycolic acid) nanoparticles with enhanced cell internalization. *Acta Biomaterialia*, **2016**, 30, 49-61	10.8	70
168	Blocking MHC class II on human endothelium mitigates acute rejection. *JCI Insight*, **2016**, 1,	9.9	44
167	Pigment epithelium-derived factor restoration increases bone mass and improves bone plasticity in a model of osteogenesis imperfecta type VI via Wnt3a blockade. *FASEB Journal*, **2016**, 30, 2837-48	0.9	24
166	Distribution of polymer nanoparticles by convection-enhanced delivery to brain tumors. *Journal of Controlled Release*, **2016**, 232, 103-12	11.7	48
165	Multifunctional Poly(amine--ester--ortho ester) for Efficient and Safe Gene Delivery. *ACS Biomaterials Science and Engineering*, **2016**, 2, 2080-2089	5.5	16
164	Improved i.p. drug delivery with bioadhesive nanoparticles. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 11453-11458	11.5	43
163	PEGylated squalenoyl-gemcitabine nanoparticles for the treatment of glioblastoma. *Biomaterials*, **2016**, 105, 136-144	15.6	46
162	Nanotherapy for Cancer: Targeting and Multifunctionality in the Future of Cancer Therapies. *ACS Biomaterials Science and Engineering*, **2015**, 1, 64-78	5.5	118
161	A holistic approach to targeting disease with polymeric nanoparticles. *Nature Reviews Drug Discovery*, **2015**, 14, 239-47	64.1	298

160	Nanoparticles that deliver triplex-forming peptide nucleic acid molecules correct F508del CFTR in airway epithelium. *Nature Communications*, **2015**, 6, 6952	17.4	88
159	Efficient gene disruption in cultured primary human endothelial cells by CRISPR/Cas9. *Circulation Research*, **2015**, 117, 121-8	15.7	47
158	A sunblock based on bioadhesive nanoparticles. *Nature Materials*, **2015**, 14, 1278-85	27	114
157	Tissue-Engineered Microvasculature to Reperfuse Isolated Renal Glomeruli. *Tissue Engineering - Part A*, **2015**, 21, 2673-9	3.9	0
156	Systemic delivery of blood-brain barrier-targeted polymeric nanoparticles enhances delivery to brain tissue. *Journal of Drug Targeting*, **2015**, 23, 736-49	5.4	51
155	Enhancing potency of siRNA targeting fusion genes by optimization outside of target sequence. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E6597-605	11.5	7
154	Nanomedicine gets personal. *Science Translational Medicine*, **2015**, 7, 314fs47	17.5	22
153	Imaging the delivery of brain-penetrating PLGA nanoparticles in the brain using magnetic resonance. *Journal of Neuro-Oncology*, **2015**, 121, 441-9	4.8	38
152	Controlled protein delivery in the generation of microvascular networks. *Drug Delivery and Translational Research*, **2015**, 5, 75-88	6.2	7
151	MicroRNA silencing for cancer therapy targeted to the tumour microenvironment. *Nature*, **2015**, 518, 107-10	50.4	591
150	Modified poly(lactic-co-glycolic acid) nanoparticles for enhanced cellular uptake and gene editing in the lung. *Advanced Healthcare Materials*, **2015**, 4, 361-6	10.1	31
149	Clostridium perfringens enterotoxin C-terminal domain labeled to fluorescent dyes for in vivo visualization of micrometastatic chemotherapy-resistant ovarian cancer. *International Journal of Cancer*, **2015**, 137, 2618-29	7.5	21
148	Cell Interactions with Polymers **2014**, 385-406		13
147	Surface-modified nanoparticles enhance transurothelial penetration and delivery of survivin siRNA in treating bladder cancer. *Molecular Cancer Therapeutics*, **2014**, 13, 71-81	6.1	52
146	The effect of hyperbranched polyglycerol coatings on drug delivery using degradable polymer nanoparticles. *Biomaterials*, **2014**, 35, 6595-602	15.6	89
145	Sustained delivery of proangiogenic microRNA-132 by nanoparticle transfection improves endothelial cell transplantation. *FASEB Journal*, **2014**, 28, 908-22	0.9	61
144	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. *Bioconjugate Chemistry*, **2014**, 25, 2157-65	6.3	37
143	Multi-layered nanoparticles for combination gene and drug delivery to tumors. *Biomaterials*, **2014**, 35, 9343-54	15.6	53

142	Synergistic tumor suppression by combined inhibition of telomerase and CDKN1A. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E3062-71	11.5	20
141	The nanomaterial-dependent modulation of dendritic cells and its potential influence on therapeutic immunosuppression in lupus. *Biomaterials*, **2014**, 35, 1089-95	15.6	57
140	The effect of inflammatory cell-derived MCP-1 loss on neuronal survival during chronic neuroinflammation. *Biomaterials*, **2014**, 35, 6698-706	15.6	34
139	Targeted genome modification via triple helix formation. *Methods in Molecular Biology*, **2014**, 1176, 89-106	1.4	15
138	Controlled release for local delivery of drugs: barriers and models. *Journal of Controlled Release*, **2014**, 190, 664-73	11.7	135
137	An electrospun scaffold integrating nucleic acid delivery for treatment of full-thickness wounds. *Biomaterials*, **2013**, 34, 3891-901	15.6	73
136	Regeneration of mammalian cochlear and vestibular hair cells through Hes1/Hes5 modulation with siRNA. *Hearing Research*, **2013**, 304, 91-110	3.9	26
135	Paracrine exchanges of molecular signals between alginate-encapsulated pericytes and freely suspended endothelial cells within a 3D protein gel. *Biomaterials*, **2013**, 34, 8899-908	15.6	22
134	Systemic delivery of triplex-forming PNA and donor DNA by nanoparticles mediates site-specific genome editing of human hematopoietic cells in vivo. *Gene Therapy*, **2013**, 20, 658-69	4	56
133	Pericytes modulate endothelial sprouting. *Cardiovascular Research*, **2013**, 100, 492-500	9.9	45
132	Nanoparticles for urothelium penetration and delivery of the histone deacetylase inhibitor belinostat for treatment of bladder cancer. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2013**, 9, 1124-34	6	43
131	Highly penetrative, drug-loaded nanocarriers improve treatment of glioblastoma. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 11751-6	11.5	181
130	Canonical and non-canonical barriers facing antimiR cancer therapeutics. *Current Medicinal Chemistry*, **2013**, 20, 3582-93	4.3	41
129	A novel polymer-coated nanoparticle (NP) for urothelium penetration and drug delivery.. *Journal of Clinical Oncology*, **2013**, 31, e15543-e15543	2.2	
128	Octa-functional PLGA nanoparticles for targeted and efficient siRNA delivery to tumors. *Biomaterials*, **2012**, 33, 583-91	15.6	143
127	Polymer nanoparticles encapsulating siRNA for treatment of HSV-2 genital infection. *Journal of Controlled Release*, **2012**, 162, 102-10	11.7	83
126	Surface modified poly(β-amino ester)-containing nanoparticles for plasmid DNA delivery. *Journal of Controlled Release*, **2012**, 164, 41-8	11.7	62
125	Polymer nanoparticle-mediated delivery of microRNA inhibition and alternative splicing. *Molecular Pharmaceutics*, **2012**, 9, 1481-8	5.6	71

124	Enhanced growth and hepatic differentiation of fetal liver epithelial cells through combinational and temporal adjustment of soluble factors. *Biotechnology Journal*, **2012**, 7, 440-8	5.6	3
123	Nanoparticle-based therapy in an in vivo microRNA-155 (miR-155)-dependent mouse model of lymphoma. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E1695-704	11.5	385
122	Polymeric nanoparticles for drug delivery to the central nervous system. *Advanced Drug Delivery Reviews*, **2012**, 64, 701-5	18.5	339
121	Novel delivery strategies for glioblastoma. *Cancer Journal (Sudbury, Mass)*, **2012**, 18, 89-99	2.2	91
120	Therapeutic siRNA: principles, challenges, and strategies. *Yale Journal of Biology and Medicine*, **2012** , 85, 187-200	2.4	174
119	Biodegradable poly(amine-co-ester) terpolymers for targeted gene delivery. *Nature Materials*, **2011** , 11, 82-90	27	322
118	Nanoparticles deliver triplex-forming PNAs for site-specific genomic recombination in CD34+ human hematopoietic progenitors. *Molecular Therapy*, **2011**, 19, 172-80	11.7	70
117	Polymer delivery systems for site-specific genome editing. *Journal of Controlled Release*, **2011**, 155, 312-6	11.7	14
116	Enhancement of surface ligand display on PLGA nanoparticles with amphiphilic ligand conjugates. *Journal of Controlled Release*, **2011**, 156, 109-15	11.7	65
115	In vivo distribution of surface-modified PLGA nanoparticles following intravaginal delivery. *Journal of Controlled Release*, **2011**, 156, 258-64	11.7	100
114	Convection-enhanced delivery of camptothecin-loaded polymer nanoparticles for treatment of intracranial tumors. *Drug Delivery and Translational Research*, **2011**, 1, 34-42	6.2	87
113	Prevention of - and -mediated intravaginal tumors by treatment with camptothecin-loaded PLGA nanoparticles. *Drug Delivery and Translational Research*, **2011**, 1, 383-394	6.2	19
112	Enzyme-synthesized poly(amine-co-esters) as nonviral vectors for gene delivery. *Journal of Biomedical Materials Research - Part A*, **2011**, 96, 456-65	5.4	39
111	Enhanced siRNA delivery into cells by exploiting the synergy between targeting ligands and cell-penetrating peptides. *Biomaterials*, **2011**, 32, 6194-203	15.6	98
110	Biodegradation, biocompatibility, and drug delivery in poly(□pentadecalactone-co-p-dioxanone) copolyesters. *Biomaterials*, **2011**, 32, 6646-54	15.6	45
109	Polymer nanoparticles containing tumor lysates as antigen delivery vehicles for dendritic cell-based antitumor immunotherapy. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2011**, 7, 1-10	6	80
108	Tissue-engineered vascular grafts form neovessels that arise from regeneration of the adjacent blood vessel. *FASEB Journal*, **2011**, 25, 2731-9	0.9	120
107	Tissue-engineered vascular grafts transform into mature blood vessels via an inflammation-mediated process of vascular remodeling. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 4669-74	11.5	424

106	Vaccine delivery by polymeric vehicles in the mouse reproductive tract induces sustained local and systemic immunity. *Molecular Pharmaceutics*, **2010**, 7, 1585-95	5.6	19
105	Partial correction of cystic fibrosis defects with PLGA nanoparticles encapsulating curcumin. *Molecular Pharmaceutics*, **2010**, 7, 86-93	5.6	103
104	Dual delivery of VEGF and MCP-1 to support endothelial cell transplantation for therapeutic vascularization. *Biomaterials*, **2010**, 31, 3054-62	15.6	81
103	Ligand-modified gene carriers increased uptake in target cells but reduced DNA release and transfection efficiency. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2010**, 6, 334-43	6	21
102	Are we studying what matters? Health priorities and NIH-funded biomedical engineering research. *Annals of Biomedical Engineering*, **2010**, 38, 2237-51	4.7	3
101	Parameter estimation methodology in a model of hydrophobic drug release from a polymer coating. *Journal of Controlled Release*, **2010**, 142, 474-82	11.7	28
100	The behavioral and biochemical effects of BDNF containing polymers implanted in the hippocampus of rats. *Brain Research*, **2010**, 1321, 40-50	3.7	38
99	Poly(lactide-co-glycolide) nanoparticle assembly for highly efficient delivery of potent therapeutic agents from medical devices. *Biomaterials*, **2010**, 31, 3631-42	15.6	33
98	Biodegradable meshes printed with extracellular matrix proteins support micropatterned hepatocyte cultures. *Tissue Engineering - Part A*, **2009**, 15, 1169-79	3.9	24
97	Human aortic smooth muscle cells promote arteriole formation by coengrafted endothelial cells. *Tissue Engineering - Part A*, **2009**, 15, 165-73	3.9	42
96	Controlled delivery of VEGF via modulation of alginate microparticle ionic crosslinking. *Journal of Controlled Release*, **2009**, 134, 26-34	11.7	154
95	Intravaginal gene silencing using biodegradable polymer nanoparticles densely loaded with small-interfering RNA. *Nature Materials*, **2009**, 8, 526-33	27	378
94	PEGylated PLGA nanoparticles for the improved delivery of doxorubicin. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2009**, 5, 410-8	6	264
93	Nanotechnology for delivery of drugs to the brain for epilepsy. *Neurotherapeutics*, **2009**, 6, 323-36	6.4	90
92	Simultaneous release of multiple molecules from poly(lactide-co-glycolide) nanoparticles assembled onto medical devices. *Biomaterials*, **2009**, 30, 4889-97	15.6	17
91	The uptake and intracellular fate of PLGA nanoparticles in epithelial cells. *Biomaterials*, **2009**, 30, 2790-8	15.6	331
90	Poly(omega-pentadecalactone-co-butylene-co-succinate) nanoparticles as biodegradable carriers for camptothecin delivery. *Biomaterials*, **2009**, 30, 5707-19	15.6	93
89	Mathematical modeling of molecular diffusion through mucus. *Advanced Drug Delivery Reviews*, **2009**, 61, 101-14	18.5	88

88	Controlled surface modification with poly(ethylene)glycol enhances diffusion of PLGA nanoparticles in human cervical mucus. *Molecular Pharmaceutics*, **2009**, 6, 173-81	5.6	193
87	High loading efficiency and tunable release of plasmid DNA encapsulated in submicron particles fabricated from PLGA conjugated with poly-L-lysine. *Journal of Controlled Release*, **2008**, 129, 66-72	11.7	92
86	Bioengineering approaches to controlled protein delivery. *Pediatric Research*, **2008**, 63, 513-9	3.2	45
85	Effect of extracellular matrix elements on the transport of paclitaxel through an arterial wall tissue mimic. *Biomacromolecules*, **2008**, 9, 2792-8	6.9	21
84	Engineering of multifunctional gels integrating highly efficient growth factor delivery with endothelial cell transplantation. *FASEB Journal*, **2008**, 22, 2949-56	0.9	53
83	Replacement of bone marrow by bone in rat femurs: the bone bioreactor. *Tissue Engineering - Part A*, **2008**, 14, 237-46	3.9	15
82	Efficacy of camptothecin and polymer-conjugated camptothecin in tumor spheroids and solid tumors. *Journal of Biomaterials Science, Polymer Edition*, **2007**, 18, 1283-99	3.5	8
81	Conjugation to increase treatment volume during local therapy: a case study with PEGylated camptothecin. *Bioconjugate Chemistry*, **2007**, 18, 2115-21	6.3	11
80	A nanoscopic multivalent antigen-presenting carrier for sensitive detection and drug delivery to T cells. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2007**, 3, 75-85	6	24
79	Dilation and degradation of the brain extracellular matrix enhances penetration of infused polymer nanoparticles. *Brain Research*, **2007**, 1180, 121-32	3.7	83
78	Nanosystems for simultaneous imaging and drug delivery to T cells. *AAPS Journal*, **2007**, 9, E171-80	3.7	77
77	Fibronectin terminated multilayer films: protein adsorption and cell attachment studies. *Biomaterials*, **2007**, 28, 851-60	15.6	192
76	Centrifugal seeding increases seeding efficiency and cellular distribution of bone marrow stromal cells in porous biodegradable scaffolds. *Tissue Engineering*, **2007**, 13, 2743-9		69
75	Development of PTH eluting microspheres for the treatment of hypoparathyroidism. *Journal of Surgical Research*, **2007**, 143, 195-9	2.5	4
74	In vitro evaluation of biodegradable microspheres with surface-bound ligands. *Journal of Controlled Release*, **2006**, 110, 574-80	11.7	35
73	Impact of cell type and density on nerve growth factor distribution and bioactivity in 3-dimensional collagen gel cultures. *Tissue Engineering*, **2006**, 12, 1915-27		26
72	A PEDF N-terminal peptide protects the retina from ischemic injury when delivered in PLGA nanospheres. *Experimental Eye Research*, **2006**, 83, 824-33	3.7	76
71	Development of a model system for preliminary evaluation of tissue-engineered vascular conduits. *Journal of Pediatric Surgery*, **2006**, 41, 787-91	2.6	19

70	Enhanced and prolonged cross-presentation following endosomal escape of exogenous antigens encapsulated in biodegradable nanoparticles. *Immunology*, **2006**, 117, 78-88	7.8	320
69	New methods for direct delivery of chemotherapy for treating brain tumors. *Yale Journal of Biology and Medicine*, **2006**, 79, 141-52	2.4	87
68	Cellular fate of a modular DNA delivery system mediated by silica nanoparticles. *Biotechnology Progress*, **2005**, 21, 532-7	2.8	90
67	Development of a parathyroid hormone-controlled release system as a potential surgical treatment for hypoparathyroidism. *Journal of Pediatric Surgery*, **2005**, 40, 81-5	2.6	7
66	The influence of microchannels on neurite growth and architecture. *Biomaterials*, **2005**, 26, 771-8	15.6	188
65	Surface modification of biodegradable polyesters with fatty acid conjugates for improved drug targeting. *Biomaterials*, **2005**, 26, 5727-36	15.6	153
64	Diffusion measurements for drug design. *Nature Materials*, **2005**, 4, 714-714	27	1
63	Improved cell adhesion and proliferation on synthetic phosphonic acid-containing hydrogels. *Biomaterials*, **2005**, 26, 3663-71	15.6	105
62	Multiphoton microscopy guides neurotrophin modification with poly(ethylene glycol) to enhance interstitial diffusion. *Nature Materials*, **2004**, 3, 489-94	27	27
61	Surface-mediated gene transfer from nanocomposites of controlled texture. *Nature Materials*, **2004**, 3, 569-74	27	178
60	A self-assembled, modular DNA delivery system mediated by silica nanoparticles. *Journal of Controlled Release*, **2004**, 95, 333-41	11.7	142
59	Improving the expansion and neuronal differentiation of mesenchymal stem cells through culture surface modification. *Biomaterials*, **2004**, 25, 1331-7	15.6	165
58	Biomaterials with hierarchically defined micro- and nanoscale structure. *Biomaterials*, **2004**, 25, 3593-601	15.6	187
57	The effect of synthetic polymers on the migration of monocytes through human cervical mucus. *Biomaterials*, **2004**, 25, 4563-71	15.6	9
56	Biodegradable Microspheres with Enhanced Capacity for Covalently Bound Surface Ligands. *Macromolecules*, **2004**, 37, 9779-9784	5.5	61
55	In vitro cytotoxicity and in vivo distribution after direct delivery of PEG-camptothecin conjugates to the rat brain. *Bioconjugate Chemistry*, **2004**, 15, 1364-75	6.3	54
54	Malolactonate polymers and copolymers for biomedical applications. *Macromolecular Symposia*, **2003**, 197, 303-314	0.8	4
53	Surface patterning and biological evaluation of semi-interpenetrated poly(HEMA)/poly(alkyl malolactonate)s. *Macromolecular Symposia*, **2003**, 197, 369-380	0.8	8

52	Gene expression and mucosal immune responses after vaginal DNA immunization in mice using a controlled delivery matrix. *Journal of Controlled Release*, **2003**, 86, 339-48	11.7	46
51	Organosilicate-polymer drug delivery systems: controlled release and enhanced mechanical properties. *Journal of Controlled Release*, **2003**, 90, 163-9	11.7	121
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49	Diffusion of nerve growth factor in rat striatum as determined by multiphoton microscopy. *Biophysical Journal*, **2003**, 85, 581-8	2.9	63
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