

Michael J Mitchell

List of Publications by Year in descending order

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Version: 2024-02-01

416
papers

88,211
citations

630

127
h-index

411

284
g-index

437
all docs

437
docs citations

437
times ranked

88565
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanocarriers as an emerging platform for cancer therapy. <i>Nature Nanotechnology</i> , 2007, 2, 751-760.	15.6	7,469
2	Engineering precision nanoparticles for drug delivery. <i>Nature Reviews Drug Discovery</i> , 2021, 20, 101-124.	21.5	3,154
3	Designing materials for biology and medicine. <i>Nature</i> , 2004, 428, 487-492.	13.7	2,876
4	Impact of Nanotechnology on Drug Delivery. <i>ACS Nano</i> , 2009, 3, 16-20.	7.3	2,760
5	Knocking down barriers: advances in siRNA delivery. <i>Nature Reviews Drug Discovery</i> , 2009, 8, 129-138.	21.5	2,639
6	Physical and mechanical properties of PLA, and their functions in widespread applications – A comprehensive review. <i>Advanced Drug Delivery Reviews</i> , 2016, 107, 367-392.	6.6	1,957
7	CRISPR-Cas9 Knockin Mice for Genome Editing and Cancer Modeling. <i>Cell</i> , 2014, 159, 440-455.	13.5	1,566
8	Delivery technologies for cancer immunotherapy. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 175-196.	21.5	1,562
9	Nanoparticle Delivery of Cancer Drugs. <i>Annual Review of Medicine</i> , 2012, 63, 185-198.	5.0	1,347
10	Overcoming the challenges in administering biopharmaceuticals: formulation and delivery strategies. <i>Nature Reviews Drug Discovery</i> , 2014, 13, 655-672.	21.5	1,261
11	Lipid nanoparticles for mRNA delivery. <i>Nature Reviews Materials</i> , 2021, 6, 1078-1094.	23.3	1,256
12	Bioresponsive materials. <i>Nature Reviews Materials</i> , 2017, 2, .	23.3	1,117
13	Engineering Substrate Topography at the Micro- and Nanoscale to Control Cell Function. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5406-5415.	7.2	1,109
14	A combinatorial library of lipid-like materials for delivery of RNAi therapeutics. <i>Nature Biotechnology</i> , 2008, 26, 561-569.	9.4	1,076
15	Advances in oligonucleotide drug delivery. <i>Nature Reviews Drug Discovery</i> , 2020, 19, 673-694.	21.5	1,036
16	Treating metastatic cancer with nanotechnology. <i>Nature Reviews Cancer</i> , 2012, 12, 39-50.	12.8	1,023
17	Preclinical Development and Clinical Translation of a PSMA-Targeted Docetaxel Nanoparticle with a Differentiated Pharmacological Profile. <i>Science Translational Medicine</i> , 2012, 4, 128ra39.	5.8	978
18	Biodegradable Polymer Scaffolds for Tissue Engineering. <i>Nature Biotechnology</i> , 1994, 12, 689-693.	9.4	921

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19	Targeted delivery of cisplatin to prostate cancer cells by aptamer functionalized Pt(IV) prodrug-PLGA-PEG nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17356-17361.	3.3	904
20	Nanostructured materials for applications in drug delivery and tissue engineering. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 241-268.	1.9	897
21	Nanoparticle-Aptamer Bioconjugates. Cancer Research, 2004, 64, 7668-7672.	0.4	873
22	A controlled-release microchip. Nature, 1999, 397, 335-338.	13.7	839
23	Degradable Poly(β -amino esters): Synthesis, Characterization, and Self-Assembly with Plasmid DNA. Journal of the American Chemical Society, 2000, 122, 10761-10768.	6.6	827
24	Lipid-like materials for low-dose, in vivo gene silencing. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1864-1869.	3.3	776
25	Emerging Frontiers in Drug Delivery. Journal of the American Chemical Society, 2016, 138, 704-717.	6.6	776
26	Controlled delivery systems for proteins based on poly(lactic/glycolic acid) microspheres. Pharmaceutical Research, 1991, 08, 713-720.	1.7	774
27	Antisense c-myc oligonucleotides inhibit intimal arterial smooth muscle cell accumulation in vivo. Nature, 1992, 359, 67-70.	13.7	773
28	Therapeutic genome editing by combined viral and non-viral delivery of CRISPR system components in vivo. Nature Biotechnology, 2016, 34, 328-333.	9.4	732
29	Size- and shape-dependent foreign body immune response to materials implanted in rodents and non-human primates. Nature Materials, 2015, 14, 643-651.	13.3	700
30	Therapeutic siRNA silencing in inflammatory monocytes in mice. Nature Biotechnology, 2011, 29, 1005-1010.	9.4	697
31	In vitro and ex vivo strategies for intracellular delivery. Nature, 2016, 538, 183-192.	13.7	662
32	Efficiency of siRNA delivery by lipid nanoparticles is limited by endocytic recycling. Nature Biotechnology, 2013, 31, 653-658.	9.4	660
33	Visual evidence of acidic environment within degrading poly(lactic-co-glycolic acid) (PLGA) microspheres. Pharmaceutical Research, 2000, 17, 100-106.	1.7	659
34	Engineering Stem Cell Organoids. Cell Stem Cell, 2016, 18, 25-38.	5.2	654
35	Precise engineering of targeted nanoparticles by using self-assembled biointegrated block copolymers. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2586-2591.	3.3	649
36	Microfluidic technologies for accelerating the clinical translation of nanoparticles. Nature Nanotechnology, 2012, 7, 623-629.	15.6	571

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37	A decade of progress in tissue engineering. <i>Nature Protocols</i> , 2016, 11, 1775-1781.	5.5	570
38	Advances in Biomaterials for Drug Delivery. <i>Advanced Materials</i> , 2018, 30, e1705328.	11.1	565
39	Drug delivery by supramolecular design. <i>Chemical Society Reviews</i> , 2017, 46, 6600-6620.	18.7	551
40	Bioplastics for a circular economy. <i>Nature Reviews Materials</i> , 2022, 7, 117-137.	23.8	550
41	Preparation of poly(glycolic acid) bonded fiber structures for cell attachment and transplantation. <i>Journal of Biomedical Materials Research Part B</i> , 1993, 27, 183-189.	3.0	546
42	A Combinatorial Polymer Library Approach Yields Insight into Nonviral Gene Delivery. <i>Accounts of Chemical Research</i> , 2008, 41, 749-759.	7.6	530
43	Mechanistic understanding of in vivo protein corona formation on polymeric nanoparticles and impact on pharmacokinetics. <i>Nature Communications</i> , 2017, 8, 777.	5.8	507
44	Lipid Nanoparticle Assisted mRNA Delivery for Potent Cancer Immunotherapy. <i>Nano Letters</i> , 2017, 17, 1326-1335.	4.5	506
45	Dynamic Cell Seeding of Polymer Scaffolds for Cartilage Tissue Engineering. <i>Biotechnology Progress</i> , 1998, 14, 193-202.	1.3	490
46	Intracellular Delivery by Membrane Disruption: Mechanisms, Strategies, and Concepts. <i>Chemical Reviews</i> , 2018, 118, 7409-7531.	23.0	490
47	Cardiac tissue engineering: Cell seeding, cultivation parameters, and tissue construct characterization. , 1999, 64, 580-589.		473
48	In vivo endothelial siRNA delivery using polymeric nanoparticles with low molecular weight. <i>Nature Nanotechnology</i> , 2014, 9, 648-655.	15.6	466
49	Niche-independent high-purity cultures of Lgr5+ intestinal stem cells and their progeny. <i>Nature Methods</i> , 2014, 11, 106-112.	9.0	466
50	Managing diabetes with nanomedicine: challenges and opportunities. <i>Nature Reviews Drug Discovery</i> , 2015, 14, 45-57.	21.5	459
51	Switching from differentiation to growth in hepatocytes: Control by extracellular matrix. <i>Journal of Cellular Physiology</i> , 1992, 151, 497-505.	2.0	449
52	Semi-Automated Synthesis and Screening of a Large Library of Degradable Cationic Polymers for Gene Delivery. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3153-3158.	7.2	445
53	Degradable lipid nanoparticles with predictable in vivo siRNA delivery activity. <i>Nature Communications</i> , 2014, 5, 4277.	5.8	431
54	Self-assembled hydrogels utilizing polymer-nanoparticle interactions. <i>Nature Communications</i> , 2015, 6, 6295.	5.8	425

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55	mRNA vaccine delivery using lipid nanoparticles. <i>Therapeutic Delivery</i> , 2016, 7, 319-334.	1.2	414
56	Delivery of mRNA vaccines with heterocyclic lipids increases anti-tumor efficacy by STING-mediated immune cell activation. <i>Nature Biotechnology</i> , 2019, 37, 1174-1185.	9.4	398
57	A vector-free microfluidic platform for intracellular delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2082-2087.	3.3	386
58	The promise of organ and tissue preservation to transform medicine. <i>Nature Biotechnology</i> , 2017, 35, 530-542.	9.4	371
59	Lipopeptide nanoparticles for potent and selective siRNA delivery in rodents and nonhuman primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3955-3960.	3.3	366
60	Polymeric synthetic nanoparticles for the induction of antigen-specific immunological tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E156-65.	3.3	364
61	Enzymatic Degradation of Glycosaminoglycans. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 1995, 30, 387-444.	2.3	360
62	Parallel Synthesis and Biophysical Characterization of a Degradable Polymer Library for Gene Delivery. <i>Journal of the American Chemical Society</i> , 2003, 125, 5316-5323.	6.6	353
63	Glucose-responsive insulin patch for the regulation of blood glucose in mice and minipigs. <i>Nature Biomedical Engineering</i> , 2020, 4, 499-506.	11.6	353
64	Prevascularization of porous biodegradable polymers. <i>Biotechnology and Bioengineering</i> , 1993, 42, 716-723.	1.7	331
65	Combinatorial discovery of polymers resistant to bacterial attachment. <i>Nature Biotechnology</i> , 2012, 30, 868-875.	9.4	328
66	Dendrimer-RNA nanoparticles generate protective immunity against lethal Ebola, H1N1 influenza, and <i>Toxoplasma gondii</i> challenges with a single dose. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4133-42.	3.3	320
67	Surface hydrolysis of poly(glycolic acid) meshes increases the seeding density of vascular smooth muscle cells. , 1998, 42, 417-424.		307
68	Transdermal drug delivery using low-frequency sonophoresis. <i>Pharmaceutical Research</i> , 1996, 13, 411-420.	1.7	305
69	Ionizable Lipid Nanoparticle-Mediated mRNA Delivery for Human CAR T Cell Engineering. <i>Nano Letters</i> , 2020, 20, 1578-1589.	4.5	299
70	An inflammation-targeting hydrogel for local drug delivery in inflammatory bowel disease. <i>Science Translational Medicine</i> , 2015, 7, 300ra128.	5.8	288
71	An ingestible self-orienting system for oral delivery of macromolecules. <i>Science</i> , 2019, 363, 611-615.	6.0	287
72	Nanomedicine in the management of microbial infection – Overview and perspectives. <i>Nano Today</i> , 2014, 9, 478-498.	6.2	286

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73	Sustained antigen availability during germinal center initiation enhances antibody responses to vaccination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6639-E6648.	3.3	286
74	Formulation and physical characterization of large porous particles for inhalation. <i>Pharmaceutical Research</i> , 1999, 16, 1735-1742.	1.7	285
75	Characterization and development of RGD-peptide-modified poly(lactic acid-co-lysine) as an interactive, resorbable biomaterial. , 1997, 35, 513-523.		271
76	Design of imidazole-containing endosomolytic biopolymers for gene delivery. <i>Biotechnology and Bioengineering</i> , 2000, 67, 217-223.	1.7	270
77	Controlled-release of IGF-I and TGF- β 21 in a photopolymerizing hydrogel for cartilage tissue engineering. <i>Journal of Orthopaedic Research</i> , 2001, 19, 1098-1104.	1.2	268
78	A pH-responsive supramolecular polymer gel as an enteric elastomer for use in gastric devices. <i>Nature Materials</i> , 2015, 14, 1065-1071.	13.3	268
79	Moisture-induced aggregation of lyophilized proteins in the solid state. <i>Biotechnology and Bioengineering</i> , 1991, 37, 177-184.	1.7	247
80	Spatially controlled cell engineering on biodegradable polymer surfaces. <i>FASEB Journal</i> , 1998, 12, 1447-1454.	0.2	238
81	Transdermal monitoring of glucose and other analytes using ultrasound. <i>Nature Medicine</i> , 2000, 6, 347-350.	15.2	237
82	Evolution of macromolecular complexity in drug delivery systems. <i>Nature Reviews Chemistry</i> , 2017, 1, .	13.8	233
83	Long-term engraftment of hepatocytes transplanted on biodegradable polymer sponges. , 1997, 37, 413-420.		217
84	Restoration of tumour-growth suppression in vivo via systemic nanoparticle-mediated delivery of PTEN mRNA. <i>Nature Biomedical Engineering</i> , 2018, 2, 850-864.	11.6	214
85	Inhaled Nanoformulated mRNA Polyplexes for Protein Production in Lung Epithelium. <i>Advanced Materials</i> , 2019, 31, e1805116.	11.1	212
86	Lipidoid-Coated Iron Oxide Nanoparticles for Efficient DNA and siRNA delivery. <i>Nano Letters</i> , 2013, 13, 1059-1064.	4.5	210
87	Small RNA combination therapy for lung cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3553-61.	3.3	210
88	Determinants of release rate of tetanus vaccine from polyester microspheres. <i>Pharmaceutical Research</i> , 1993, 10, 945-953.	1.7	207
89	Enzyme thermoinactivation in anhydrous organic solvents. <i>Biotechnology and Bioengineering</i> , 1991, 37, 843-853.	1.7	206
90	Shape-memory polymer networks from oligo(ϵ -caprolactone)dimethacrylates. <i>Journal of Polymer Science Part A</i> , 2005, 43, 1369-1381.	2.5	206

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91	Engineering and physical sciences in oncology: challenges and opportunities. <i>Nature Reviews Cancer</i> , 2017, 17, 659-675.	12.8	204
92	<i>In Vivo</i> Compatibility of Graphene Oxide with Differing Oxidation States. <i>ACS Nano</i> , 2015, 9, 3866-3874.	7.3	197
93	An elastic second skin. <i>Nature Materials</i> , 2016, 15, 911-918.	13.3	195
94	Bioprinting the Cancer Microenvironment. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1710-1721.	2.6	194
95	Proton-driven transformable nanovaccine for cancer immunotherapy. <i>Nature Nanotechnology</i> , 2020, 15, 1053-1064.	15.6	194
96	Nanotechnology for biomaterials engineering: structural characterization of amphiphilic polymeric nanoparticles by 1H NMR spectroscopy. <i>Biomaterials</i> , 1997, 18, 27-30.	5.7	192
97	Nanomaterials for T-cell cancer immunotherapy. <i>Nature Nanotechnology</i> , 2021, 16, 25-36.	15.6	191
98	Non-genetic engineering of cells for drug delivery and cell-based therapy. <i>Advanced Drug Delivery Reviews</i> , 2015, 91, 125-140.	6.6	190
99	Glucose-responsive insulin activity by covalent modification with aliphatic phenylboronic acid conjugates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2401-2406.	3.3	190
100	Mechanism of insulin aggregation and stabilization in agitated aqueous solutions. <i>Biotechnology and Bioengineering</i> , 1992, 40, 895-903.	1.7	187
101	Photopolymerizable degradable polyanhydrides with osteocompatibility. <i>Nature Biotechnology</i> , 1999, 17, 156-159.	9.4	186
102	Barcoded nanoparticles for high throughput in vivo discovery of targeted therapeutics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2060-2065.	3.3	185
103	TRAIL-coated leukocytes that kill cancer cells in the circulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 930-935.	3.3	182
104	An ionizable lipid toolbox for RNA delivery. <i>Nature Communications</i> , 2021, 12, 7233.	5.8	182
105	Oral, ultra-long-lasting drug delivery: Application toward malaria elimination goals. <i>Science Translational Medicine</i> , 2016, 8, 365ra157.	5.8	181
106	Development of an oral once-weekly drug delivery system for HIV antiretroviral therapy. <i>Nature Communications</i> , 2018, 9, 2.	5.8	180
107	Combinatorial synthesis of chemically diverse core-shell nanoparticles for intracellular delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12996-13001.	3.3	178
108	Lectin-bearing polymerized liposomes as potential oral vaccine carriers. <i>Pharmaceutical Research</i> , 1996, 13, 1378-1383.	1.7	174

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109	Synthesis and Biological Evaluation of Ionizable Lipid Materials for the In Vivo Delivery of Messenger RNA to B Lymphocytes. <i>Advanced Materials</i> , 2017, 29, 1606944.	11.1	174
110	Synthesis and Characterization of in Situ Cross-Linkable Hyaluronic Acid-Based Hydrogels with Potential Application for Vocal Fold Regeneration. <i>Macromolecules</i> , 2004, 37, 3239-3248.	2.2	173
111	Bioinspired Alkenyl Amino Alcohol Ionizable Lipid Materials for Highly Potent In Vivo mRNA Delivery. <i>Advanced Materials</i> , 2016, 28, 2939-2943.	11.1	172
112	Clonal Expansion of Lgr5-Positive Cells from Mammalian Cochlea and High-Purity Generation of Sensory Hair Cells. <i>Cell Reports</i> , 2017, 18, 1917-1929.	2.9	167
113	A luminal unfolding microneedle injector for oral delivery of macromolecules. <i>Nature Medicine</i> , 2019, 25, 1512-1518.	15.2	167
114	Transdermal Photopolymerization of Poly (Ethylene Oxide)-Based Injectable Hydrogels for Tissue-Engineered Cartilage. <i>Plastic and Reconstructive Surgery</i> , 1999, 104, 1014-1022.	0.7	164
115	Computational and Experimental Models of Cancer Cell Response to Fluid Shear Stress. <i>Frontiers in Oncology</i> , 2013, 3, 44.	1.3	158
116	Moisture-induced aggregation of lyophilized insulin. <i>Pharmaceutical Research</i> , 1994, 11, 21-29.	1.7	153
117	An implantable microdevice to perform high-throughput in vivo drug sensitivity testing in tumors. <i>Science Translational Medicine</i> , 2015, 7, 284ra57.	5.8	150
118	Magnetically enhanced insulin release in diabetic rats. <i>Journal of Biomedical Materials Research Part B</i> , 1987, 21, 1367-1373.	3.0	148
119	Controlled delivery systems for proteins using polyanhydride microspheres. <i>Pharmaceutical Research</i> , 1993, 10, 487-496.	1.7	148
120	Prolonged energy harvesting for ingestible devices. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	148
121	Biomaterials for vaccine-based cancer immunotherapy. <i>Journal of Controlled Release</i> , 2018, 292, 256-276.	4.8	146
122	Materials for stem cell factories of the future. <i>Nature Materials</i> , 2014, 13, 570-579.	13.3	145
123	Fluid shear stress sensitizes cancer cells to receptor-mediated apoptosis via trimeric death receptors. <i>New Journal of Physics</i> , 2013, 15, 015008.	1.2	143
124	Microfluidic formulation of nanoparticles for biomedical applications. <i>Biomaterials</i> , 2021, 274, 120826.	5.7	143
125	Perspectives and Challenges in Tissue Engineering and Regenerative Medicine. <i>Advanced Materials</i> , 2009, 21, 3235-3236.	11.1	140
126	Selective differentiation of mammalian bone marrow stromal cells cultured on three-dimensional polymer foams. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 55, 229-235.	3.0	139

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127	Metabolic control of primed human pluripotent stem cell fate and function by the miR-200câ€“SIRT2 axis. <i>Nature Cell Biology</i> , 2017, 19, 445-456.	4.6	138
128	Transdermal Photopolymerization of Poly (Ethylene Oxide)-Based Injectable Hydrogels for Tissue-Engineered Cartilage. <i>Plastic and Reconstructive Surgery</i> , 1999, 104, 1014-1022.	0.7	136
129	Nanoparticulate drug delivery systems targeting inflammation for treatment of inflammatory bowel disease. <i>Nano Today</i> , 2017, 16, 82-96.	6.2	136
130	Parallel microfluidic synthesis of size-tunable polymeric nanoparticles using 3D flow focusing towards in vivo study. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 401-409.	1.7	134
131	Applications of ethylene vinyl acetate copolymers (EVA) in drug delivery systems. <i>Journal of Controlled Release</i> , 2017, 262, 284-295.	4.8	134
132	Comprehensive proteomic characterization of stem cell-derived extracellular matrices. <i>Biomaterials</i> , 2017, 128, 147-159.	5.7	132
133	Design and Synthesis of Waterborne Polyurethanes. <i>Advanced Materials</i> , 2018, 30, e1706237.	11.1	131
134	Hepatocyte culture on biodegradable polymeric substrates. <i>Biotechnology and Bioengineering</i> , 1991, 38, 145-158.	1.7	129
135	Ly6Clo monocytes drive immunosuppression and confer resistance to anti-VEGFR2 cancer therapy. <i>Journal of Clinical Investigation</i> , 2017, 127, 3039-3051.	3.9	124
136	Nucleic acid delivery for therapeutic applications. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113834.	6.6	122
137	Genetic and hypoxic alterations of the micro <scp>RNA</scp> â€“ISCU</scp> 1/2 axis promote ironâ€“sulfur deficiency and pulmonary hypertension. <i>EMBO Molecular Medicine</i> , 2015, 7, 695-713.	3.3	120
138	Scalable mRNA and siRNA Lipid Nanoparticle Production Using a Parallelized Microfluidic Device. <i>Nano Letters</i> , 2021, 21, 5671-5680.	4.5	120
139	Rapid Optimization of Gene Delivery by Parallel End-modification of Poly(Î²-amino ester)s. <i>Molecular Therapy</i> , 2007, 15, 1306-1312.	3.7	118
140	Cooperative Effects of Matrix Stiffness and Fluid Shear Stress on Endothelial Cell Behavior. <i>Biophysical Journal</i> , 2015, 108, 471-478.	0.2	118
141	Chiral Supraparticles for Controllable Nanomedicine. <i>Advanced Materials</i> , 2020, 32, e1903878.	11.1	118
142	The PDGF-BB-SOX7 axis-modulated IL-33 in pericytes and stromal cells promotes metastasis through tumour-associated macrophages. <i>Nature Communications</i> , 2016, 7, 11385.	5.8	117
143	Biocompatibility of polymeric delivery systems for macromolecules. <i>Journal of Biomedical Materials Research Part B</i> , 1981, 15, 267-277.	3.0	115
144	Controlled release using a new bioerodible polyphosphazene matrix system. <i>Journal of Biomedical Materials Research Part B</i> , 1987, 21, 1231-1246.	3.0	115

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145	Creating biomimetic micro-environments with synthetic polymer-peptide hybrid molecules. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998, 9, 507-518.	1.9	114
146	Dendrimer-Inspired Nanomaterials for the <i>in Vivo</i> Delivery of siRNA to Lung Vasculature. <i>Nano Letters</i> , 2015, 15, 3008-3016.	4.5	113
147	Glucose-Responsive Nanoparticles for Rapid and Extended Self-Regulated Insulin Delivery. <i>ACS Nano</i> , 2020, 14, 488-497.	7.3	113
148	Systemic RNAi-mediated Gene Silencing in Nonhuman Primate and Rodent Myeloid Cells. <i>Molecular Therapy - Nucleic Acids</i> , 2012, 1, e4.	2.3	112
149	Ionizable lipid nanoparticles encapsulating barcoded mRNA for accelerated in vivo delivery screening. <i>Journal of Controlled Release</i> , 2019, 316, 404-417.	4.8	111
150	Ionizable lipid nanoparticles for in utero mRNA delivery. <i>Science Advances</i> , 2021, 7, .	4.7	110
151	Tissue engineering: a new field and its challenges. , 1997, 14, 840-841.		108
152	A metalloproteinase inhibitor as an inhibitor of neovascularization. <i>Journal of Cellular Biochemistry</i> , 1991, 47, 230-235.	1.2	107
153	Nanoparticles for Immune Cytokine TRAIL-Based Cancer Therapy. <i>ACS Nano</i> , 2018, 12, 912-931.	7.3	107
154	Triggerable tough hydrogels for gastric resident dosage forms. <i>Nature Communications</i> , 2017, 8, 124.	5.8	106
155	A novel biotinylated degradable polymer for cell-interactive applications. , 1998, 58, 529-535.		104
156	Surface-Initiated Polymerization of L-Lactide: Coating of Solid Substrates with a Biodegradable Polymer. <i>Macromolecules</i> , 2001, 34, 5361-5363.	2.2	103
157	Transdermal Delivery of Heparin by Skin Electroporation. <i>Nature Biotechnology</i> , 1995, 13, 1205-1209.	9.4	102
158	Multiplexed RNAi therapy against brain tumor-initiating cells via lipopolymeric nanoparticle infusion delays glioblastoma progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6147-E6156.	3.3	102
159	The influence of microstructure and monomer properties on the erosion mechanism of a class of polyanhydrides. <i>Journal of Polymer Science Part A</i> , 1993, 31, 2445-2458.	2.5	98
160	Poly(glycoamidoamine) Brushes Formulated Nanomaterials for Systemic siRNA and mRNA Delivery in Vivo. <i>Nano Letters</i> , 2016, 16, 842-848.	4.5	98
161	Repeatable and adjustable on-demand sciatic nerve block with phototriggerable liposomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15719-15724.	3.3	97
162	Large porous particles for sustained protection from carbachol-induced bronchoconstriction in guinea pigs. <i>Pharmaceutical Research</i> , 1999, 16, 555-561.	1.7	96

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163	Exploiting Electrostatic Interactions in Polymerâ€“Nanoparticle Hydrogels. ACS Macro Letters, 2015, 4, 848-852.	2.3	95
164	Nanoparticles with photoinduced precipitation for the extraction of pollutants from water and soil. Nature Communications, 2015, 6, 7765.	5.8	95
165	Ultrasound-mediated gastrointestinal drug delivery. Science Translational Medicine, 2015, 7, 310ra168.	5.8	95
166	Live-cell protein labelling with nanometre precision by cell squeezing. Nature Communications, 2016, 7, 10372.	5.8	94
167	Aggregation of a Lyophilized Pharmaceutical Protein, Recombinant Human Albumin: Effect of Moisture and Stabilization by Excipients. Nature Biotechnology, 1995, 13, 493-496.	9.4	92
168	Neutrophil Responses to Sterile Implant Materials. PLoS ONE, 2015, 10, e0137550.	1.1	92
169	Microfluidic squeezing for intracellular antigen loading in polyclonal B-cells as cellular vaccines. Scientific Reports, 2015, 5, 10276.	1.6	88
170	Localized delivery of epidermal growth factor improves the survival of transplanted hepatocytes. , 1996, 50, 422-429.		87
171	In vivo versus in vitro degradation of controlled release polymers for intracranial surgical therapy. Journal of Biomedical Materials Research Part B, 1994, 28, 387-395.	3.0	86
172	On the pH memory of lyophilized compounds containing protein functional groups. , 1997, 53, 345-348.		85
173	Lamin A/C deficiency reduces circulating tumor cell resistance to fluid shear stress. American Journal of Physiology - Cell Physiology, 2015, 309, C736-C746.	2.1	84
174	Helper lipid structure influences protein adsorption and delivery of lipid nanoparticles to spleen and liver. Biomaterials Science, 2021, 9, 1449-1463.	2.6	84
175	From Advanced Biomedical Coatings to Multiâ€“Functionalized Biomaterials. Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics, 2006, 46, 347-375.	2.2	82
176	Nanoparticles for nucleic acid delivery: Applications in cancer immunotherapy. Cancer Letters, 2019, 458, 102-112.	3.2	82
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