Michael J Mitchell

List of Publications by Year
in descending order

416 papers	88,211 citations	527 127 h-index	350 284 g-index
437 all docs	437 docs citations	437 times ranked	79125 citing authors

#	Article	IF	Citations
1	Oral delivery of systemic monoclonal antibodies, peptides and small molecules using gastric auto-injectors. Nature Biotechnology, 2022, 40, 103-109.	9.4	64
2	Randomized Controlled Trial of a Dichoptic Digital Therapeutic for Amblyopia. Ophthalmology, 2022, 129, 77-85.	2.5	50
3	Orthogonal Design of Experiments for Optimization of Lipid Nanoparticles for mRNA Engineering of CAR T Cells. Nano Letters, 2022, 22, 533-542.	4.5	57
4	Amniotic fluid stabilized lipid nanoparticles for in utero intra-amniotic mRNA delivery. Journal of Controlled Release, 2022, 341, 616-633.	4.8	29
5	Microfluidic Squeezing Enables MHC Class I Antigen Presentation by Diverse Immune Cells to Elicit CD8+ T Cell Responses with Antitumor Activity. Journal of Immunology, 2022, 208, 929-940.	0.4	11
6	Bioplastics for a circular economy. Nature Reviews Materials, 2022, 7, 117-137.	23.3	550
7	Rational design of antiâ€inflammatory lipid nanoparticles for mRNA delivery. Journal of Biomedical Materials Research - Part A, 2022, 110, 1101-1108.	2.1	23
8	Lighting the way to personalized mRNA immune cell therapies. Science Advances, 2022, 8, eabo2423.	4.7	2
9	Cytosolic Delivery of Small Protein Scaffolds Enables Efficient Inhibition of Ras and Myc. Molecular Pharmaceutics, 2022, 19, 1104-1116.	2.3	6
10	Screening for modulators of the cellular composition of gut epithelia via organoid models of intestinal stem cell differentiation. Nature Biomedical Engineering, 2022, 6, 476-494.	11.6	24
11	Added to pre-existing inflammation, mRNA-lipid nanoparticles induce inflammation exacerbation (IE). Journal of Controlled Release, 2022, 344, 50-61.	4.8	49
12	Endothelial plasticity drives aberrant vascularization and impedes cardiac repair after myocardial infarction. , 2022, 1, 372-388.		9
13	Hydroxycholesterol substitution in ionizable lipid nanoparticles for mRNA delivery to T cells. Journal of Controlled Release, 2022, 347, 521-532.	4.8	33
14	Lipid nanodiscs give cancer a STING. Nature Materials, 2022, 21, 616-617.	13.3	2
15	Rational Design of Bisphosphonate Lipid-like Materials for mRNA Delivery to the Bone Microenvironment. Journal of the American Chemical Society, 2022, 144, 9926-9937.	6.6	46
16	Development of oil-based gels as versatile drug delivery systems for pediatric applications. Science Advances, 2022, 8, .	4.7	19
17	Experimental and computational understanding of pulsatile release mechanism from biodegradable core-shell microparticles. Science Advances, 2022, 8, .	4.7	16
18	Microgel encapsulated nanoparticles for glucose-responsive insulin delivery. Biomaterials, 2021, 267, 120458.	5.7	32

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19	Polyphosphazene immunoadjuvants: Historical perspective and recent advances. Journal of Controlled Release, 2021, 329, 299-315.	4.8	33
20	Engineering precision nanoparticles for drug delivery. Nature Reviews Drug Discovery, 2021, 20, 101-124.	21.5	3,154
21	Delivery technologies for in utero gene therapy. Advanced Drug Delivery Reviews, 2021, 169, 51-62.	6.6	24
22	A Nanoparticle Platform for Accelerated In Vivo Oral Delivery Screening of Nucleic Acids. Advanced Therapeutics, 2021, 4, .	1.6	13
23	Helper lipid structure influences protein adsorption and delivery of lipid nanoparticles to spleen and liver. Biomaterials Science, 2021, 9, 1449-1463.	2.6	84
24	Ionizable lipid nanoparticles for in utero mRNA delivery. Science Advances, 2021, 7, .	4.7	110
25	Nanomaterials for T-cell cancer immunotherapy. Nature Nanotechnology, 2021, 16, 25-36.	15.6	191
26	A microneedle platform for buccal macromolecule delivery. Science Advances, 2021, 7, .	4.7	70
27	Peptide functionalized liposomes for receptor targeted cancer therapy. APL Bioengineering, 2021, 5, 011501.	3.3	25
28	Engineered drug delivery devices to address Global Health challenges. Journal of Controlled Release, 2021, 331, 503-514.	4.8	35
29	Delivery technologies to engineer natural killer cells for cancer immunotherapy. Cancer Gene Therapy, 2021, 28, 947-959.	2.2	20
30	Delivery technologies for T cell gene editing: Applications in cancer immunotherapy. EBioMedicine, 2021, 67, 103354.	2.7	48
31	Lipid Nanoparticle-Mediated Delivery of mRNA Therapeutics and Vaccines. Trends in Molecular Medicine, 2021, 27, 616-617.	3.5	52
32	Scalable mRNA and siRNA Lipid Nanoparticle Production Using a Parallelized Microfluidic Device. Nano Letters, 2021, 21, 5671-5680.	4.5	120
33	Microfluidic formulation of nanoparticles for biomedical applications. Biomaterials, 2021, 274, 120826.	5.7	143
34	One-Component Multifunctional Sequence-Defined Ionizable Amphiphilic Janus Dendrimer Delivery Systems for mRNA. Journal of the American Chemical Society, 2021, 143, 12315-12327.	6.6	66
35	Lipid nanoparticles for mRNA delivery. Nature Reviews Materials, 2021, 6, 1078-1094.	23.3	1,256
36	Additive manufacturing in drug delivery: Innovative drug product design and opportunities for industrial application. Advanced Drug Delivery Reviews, 2021, 178, 113990.	6.6	28

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37	Nucleic acid delivery for therapeutic applications. Advanced Drug Delivery Reviews, 2021, 178, 113834.	6.6	122
38	A therapeutic convectionâ€"enhanced macroencapsulation device for enhancing Î² cell viability and insulin secretion. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	29
39	Engineered insulin-polycation complexes for glucose-responsive delivery with high insulin loading. Journal of Controlled Release, 2021, 338, 71-79.	4.8	14
40	BBB pathophysiologyâ€"independent delivery of siRNA in traumatic brain injury. Science Advances, 2021, 7, .	4.7	67
41	An ionizable lipid toolbox for RNA delivery. Nature Communications, 2021, 12, 7233.	5.8	182
42	A crosslinked polymer skin barrier film for moderate to severe atopic dermatitis: A pilot study in adults. Journal of the American Academy of Dermatology, 2020, 82, 895-901.	0.6	7
43	Chiral Supraparticles for Controllable Nanomedicine. Advanced Materials, 2020, 32, e1903878.	11.1	118
44	InÂVivo RNAi-Mediated eIF3m Knockdown Affects Ribosome Biogenesis and Transcription but Has Limited Impact on mRNA-Specific Translation. Molecular Therapy - Nucleic Acids, 2020, 19, 252-266.	2.3	14
45	Glucose-Responsive Nanoparticles for Rapid and Extended Self-Regulated Insulin Delivery. ACS Nano, 2020, 14, 488-497.	7.3	113
46	Exploiting the placenta for nanoparticle-mediated drug delivery during pregnancy. Advanced Drug Delivery Reviews, 2020, 160, 244-261.	6.6	34
47	Nasal Calcium-Rich Salts for Cleaning Airborne Particles from the Airways of Essential Workers, Students, and a Family in Quarantine. Molecular Frontiers Journal, 2020, 04, 36-45.	0.9	9
48	Nanoparticle-encapsulated siRNAs for gene silencing in the haematopoietic stem-cell niche. Nature Biomedical Engineering, 2020, 4, 1076-1089.	11.6	80
49	Delivery of Tissue-Targeted Scalpels: Opportunities and Challenges for In Vivo CRISPR/Cas-Based Genome Editing. ACS Nano, 2020, 14, 9243-9262.	7.3	69
50	Computationally Guided Intracerebral Drug Delivery via Chronically Implanted Microdevices. Cell Reports, 2020, 31, 107734.	2.9	5
51	Nanomaterials for Therapeutic RNA Delivery. Matter, 2020, 3, 1948-1975.	5.0	67
52	A New Natural Defense Against Airborne Pathogens. QRB Discovery, 2020, 1, e5.	0.6	10
53	Advances in oligonucleotide drug delivery. Nature Reviews Drug Discovery, 2020, 19, 673-694.	21.5	1,036
54	Proton-driven transformable nanovaccine for cancer immunotherapy. Nature Nanotechnology, 2020, 15, 1053-1064.	15.6	194

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55	Ingestible transiently anchoring electronics for microstimulation and conductive signaling. Science Advances, 2020, 6, eaaz0127.	4.7	35
56	Parallel evolution of polymer chemistry and immunology: Integrating mechanistic biology with materials design. Advanced Drug Delivery Reviews, 2020, 156, 65-79.	6.6	15
57	Cyclodextrins in drug delivery: applications in gene and combination therapy. Drug Delivery and Translational Research, 2020, 10, 661-677.	3.0	57
58	Ionizable Lipid Nanoparticle-Mediated mRNA Delivery for Human CAR T Cell Engineering. Nano Letters, 2020, 20, 1578-1589.	4.5	299
59	A Nanoprimer To Improve the Systemic Delivery of siRNA and mRNA. Nano Letters, 2020, 20, 4264-4269.	4.5	51
60	Robotically handled whole-tissue culture system for the screening of oral drug formulations. Nature Biomedical Engineering, 2020, 4, 544-559.	11.6	35
61	Glucose-responsive insulin patch for the regulation of blood glucose in mice and minipigs. Nature Biomedical Engineering, 2020, 4, 499-506.	11.6	353
62	Using Large Datasets to Understand Nanotechnology. Advanced Materials, 2019, 31, e1902798.	11.1	45
63	Ionizable lipid nanoparticles encapsulating barcoded mRNA for accelerated in vivo delivery screening. Journal of Controlled Release, 2019, 316, 404-417.	4.8	111
64	Can Fish and Cell Phones Teach Us about Our Health?. ACS Sensors, 2019, 4, 2566-2570.	4.0	2
65	A luminal unfolding microneedle injector for oral delivery of macromolecules. Nature Medicine, 2019, 25, 1512-1518.	15.2	167
66	Chondrogenic, hypertrophic, and osteochondral differentiation of human mesenchymal stem cells on threeâ€dimensionally woven scaffolds. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1453-1465.	1.3	21
67	Nanoparticles for nucleic acid delivery: Applications in cancer immunotherapy. Cancer Letters, 2019, 458, 102-112.	3.2	82
68	Temperature-responsive biometamaterials for gastrointestinal applications. Science Translational Medicine, 2019, 11, .	5.8	51
69	Polyimide Electrode-Based Electrical Stimulation Impedes Early Stage Muscle Graft Regeneration. Frontiers in Neurology, 2019, 10, 252.	1.1	6
70	Making the case: developing innovative adherence solutions for the treatment of tuberculosis. BMJ Global Health, 2019, 4, e001323.	2.0	10
71	An ingestible self-orienting system for oral delivery of macromolecules. Science, 2019, 363, 611-615.	6.0	287
72	BOLA (BolA Family Member 3) Deficiency Controls Endothelial Metabolism and Glycine Homeostasis in Pulmonary Hypertension. Circulation, 2019, 139, 2238-2255.	1.6	54

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73	Gene Delivery: Inhaled Nanoformulated mRNA Polyplexes for Protein Production in Lung Epithelium (Adv. Mater. 8/2019). Advanced Materials, 2019, 31, 1970053.	11.1	5
74	Delivery of mRNA vaccines with heterocyclic lipids increases anti-tumor efficacy by STING-mediated immune cell activation. Nature Biotechnology, 2019, 37, 1174-1185.	9.4	398
75	Inhaled Nanoformulated mRNA Polyplexes for Protein Production in Lung Epithelium. Advanced Materials, 2019, 31, e1805116.	11.1	212
76	Drug loading augmentation in polymeric nanoparticles using a coaxial turbulent jet mixer: Yong investigator perspective. Journal of Colloid and Interface Science, 2019, 538, 45-50.	5.0	12
77	Delivery technologies for cancer immunotherapy. Nature Reviews Drug Discovery, 2019, 18, 175-196.	21.5	1,562
78	Convergence for Translation: Drugâ€Delivery Research in Multidisciplinary Teams. Angewandte Chemie - International Edition, 2018, 57, 4156-4163.	7.2	8
79	Translation durch Konvergenz: Drugâ€Deliveryâ€Forschung in multidisziplinÃren Teams. Angewandte Chemie, 2018, 130, 4226-4234.	1.6	2
80	Caffeine-catalyzed gels. Biomaterials, 2018, 170, 127-135.	5.7	9
81	Nanoparticles for Immune Cytokine TRAIL-Based Cancer Therapy. ACS Nano, 2018, 12, 912-931.	7.3	107
82	Rapid, Single-Cell Analysis and Discovery of Vectored mRNA Transfection InÂVivo with a loxP-Flanked tdTomato Reporter Mouse. Molecular Therapy - Nucleic Acids, 2018, 10, 55-63.	2.3	59
83	Development of an oral once-weekly drug delivery system for HIV antiretroviral therapy. Nature Communications, 2018, 9, 2.	5.8	180
84	Design and Synthesis of Waterborne Polyurethanes. Advanced Materials, 2018, 30, e1706237.	11.1	131
85	Molecular Rotors for Universal Quantitation of Nanoscale Hydrophobic Interfaces in Microplate Format. Nano Letters, 2018, 18, 618-628.	4.5	3
86	Nanomaterial Interactions with Human Neutrophils. ACS Biomaterials Science and Engineering, 2018, 4, 4255-4265.	2.6	47
87	Potent in vivo lung cancer Wnt signaling inhibition via cyclodextrin-LGK974 inclusion complexes. Journal of Controlled Release, 2018, 290, 75-87.	4.8	35
88	Biomaterials for vaccine-based cancer immunotherapy. Journal of Controlled Release, 2018, 292, 256-276.	4.8	146
89	Î²â€Aminoacrylate Synthetic Hydrogels: Easily Accessible and Operationally Simple Biomaterials Networks. Angewandte Chemie, 2018, 130, 16258-16261.	1.6	9
90	Restoration of tumour-growth suppression in vivo via systemic nanoparticle-mediated delivery of PTEN mRNA. Nature Biomedical Engineering, 2018, 2, 850-864.	11.6	214

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91	Endothelial siRNA delivery in nonhuman primates using ionizable lowâ€“molecular weight polymeric nanoparticles. Science Advances, 2018, 4, eaar8409.	4.7	81
92	Genotype-targeted local therapy of glioma. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8388-E8394.	3.3	40
93	Circulating Magnetic Microbubbles for Localized Real-Time Control of Drug Delivery by Ultrasonography-Guided Magnetic Targeting and Ultrasound. Theranostics, 2018, 8, 341-357.	4.6	57
94	Intracellular Delivery by Membrane Disruption: Mechanisms, Strategies, and Concepts. Chemical Reviews, 2018, 118, 7409-7531.	23.0	490
95	Advances in Biomaterials for Drug Delivery. Advanced Materials, 2018, 30, e1705328.	11.1	565
96	Seeing through the interface: poly(Îµ -Caprolactone) surface modification of poly(glycerol-co-sebacic acid) membranes in adult porcine retinal explants. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 2349-2358.	1.3	6
97	Biodegradable scaffolds promote tissue remodeling and functional improvement in non-human primates with acute spinal cord injury. Biomaterials, 2017, 123, 63-76.	5.7	75
98	Ultrasound-Mediated Delivery of RNA to Colonic Mucosa of LiveÂMice. Gastroenterology, 2017, 152, 1151-1160.	0.6	46
99	Clonal Expansion of Lgr5-Positive Cells from Mammalian Cochlea and High-Purity Generation of Sensory Hair Cells. Cell Reports, 2017, 18, 1917-1929.	2.9	167
100	Subcellular probes for neurochemical recording from multiple brain sites. Lab on A Chip, 2017, 17, 1104-1115.	3.1	51
101	Comprehensive proteomic characterization of stem cell-derived extracellular matrices. Biomaterials, 2017, 128, 147-159.	5.7	132
102	Barcoded nanoparticles for high throughput in vivo discovery of targeted therapeutics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2060-2065.	3.3	185
103	Prolonged energy harvesting for ingestible devices. Nature Biomedical Engineering, 2017, 1, .	11.6	148
104	Metabolic control of primed human pluripotent stem cell fate and function by the miR-200câ€“SIRT2 axis. Nature Cell Biology, 2017, 19, 445-456.	4.6	138
105	The promise of organ and tissue preservation to transform medicine. Nature Biotechnology, 2017, 35, 530-542.	9.4	371
106	Investigating the Cellular Specificity in Tumors of a Surface-Converting Nanoparticle by Multimodal Imaging. Bioconjugate Chemistry, 2017, 28, 1413-1421.	1.8	13
107	Polymeric mechanical amplifiers of immune cytokine-mediated apoptosis. Nature Communications, 2017, 8, 14179.	5.8	26
108	Synthetic microparticles conjugated with VEGF165 improve the survival of endothelial progenitor cells via microRNA-17 inhibition. Nature Communications, 2017, 8, 747.	5.8	35

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109	Mechanistic understanding of in vivo protein corona formation on polymeric nanoparticles and impact on pharmacokinetics. Nature Communications, 2017, 8, 777.	5.8	507
110	Engineering and physical sciences in oncology: challenges and opportunities. Nature Reviews Cancer, 2017, 17, 659-675.	12.8	204
111	Nanoparticulate drug delivery systems targeting inflammation for treatment of inflammatory bowel disease. Nano Today, 2017, 16, 82-96.	6.2	136
112	Defining optimal permeant characteristics for ultrasound-mediated gastrointestinal delivery. Journal of Controlled Release, 2017, 268, 113-119.	4.8	12
113	Regulation of Peripheral Myelination through Transcriptional Buffering of Egr2 by an Antisense Long Non-coding RNA. Cell Reports, 2017, 20, 1950-1963.	2.9	32
114	Drug delivery by supramolecular design. Chemical Society Reviews, 2017, 46, 6600-6620.	18.7	551
115	Synthesis and Biological Evaluation of Ionizable Lipid Materials for the In Vivo Delivery of Messenger RNA to B Lymphocytes. Advanced Materials, 2017, 29, 1606944.	11.1	174
116	Evolution of macromolecular complexity in drug delivery systems. Nature Reviews Chemistry, 2017, 1, .	13.8	233
117	Applications of ethylene vinyl acetate copolymers (EVA) in drug delivery systems. Journal of Controlled Release, 2017, 262, 284-295.	4.8	134
118	Nanostructured Fibrous Membranes with Rose Spike-Like Architecture. Nano Letters, 2017, 17, 6235-6240.	4.5	72
119	Oral delivery of biologics using drug-device combinations. Current Opinion in Pharmacology, 2017, 36, 8-13.	1.7	41
120	Triggerable tough hydrogels for gastric resident dosage forms. Nature Communications, 2017, 8, 124.	5.8	106
121	Multiplexed RNAi therapy against brain tumor-initiating cells via lipopolymeric nanoparticle infusion delays glioblastoma progression. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6147-E6156.	3.3	102
122	Bioresponsive materials. Nature Reviews Materials, 2017, 2, .	23.3	1,117
123	Lipid Nanoparticle Assisted mRNA Delivery for Potent Cancer Immunotherapy. Nano Letters, 2017, 17, 1326-1335.	4.5	506
124	Ly6Clo monocytes drive immunosuppression and confer resistance to anti-VEGFR2 cancer therapy. Journal of Clinical Investigation, 2017, 127, 3039-3051.	3.9	124
125	Circumferential optical coherence tomography angiography imaging of the swine esophagus using a micromotor balloon catheter. Biomedical Optics Express, 2016, 7, 2927.	1.5	27
126	Multiâ€Material Tissue Engineering Scaffold with Hierarchical Pore Architecture. Advanced Functional Materials, 2016, 26, 5873-5883.	7.8	33

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127	Poly(Limonene Thioether) Scaffold for Tissue Engineering. Advanced Healthcare Materials, 2016, 5, 813-821.	3.9	17
128	Dendrimer-RNA nanoparticles generate protective immunity against lethal Ebola, H1N1 influenza, and Toxoplasma gondii challenges with a single dose. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4133-42.	3.3	320
129	Sequenceâ€Defined Oligomers from Hydroxyproline Building Blocks for Parallel Synthesis Applications. Angewandte Chemie, 2016, 128, 9681-9685.	1.6	22
130	A tunable delivery platform to provide local chemotherapy for pancreatic ductal adenocarcinoma. Biomaterials, 2016, 93, 71-82.	5.7	35
131	An elastic second skin. Nature Materials, 2016, 15, 911-918.	13.3	195
132	mRNA vaccine delivery using lipid nanoparticles. Therapeutic Delivery, 2016, 7, 319-334.	1.2	414
133	A Sizeâ€Selective Intracellular Delivery Platform. Small, 2016, 12, 5873-5881.	5.2	24
134	In vitro and ex vivo strategies for intracellular delivery. Nature, 2016, 538, 183-192.	13.7	662
135	Sustained antigen availability during germinal center initiation enhances antibody responses to vaccination. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6639-E6648.	3.3	286
136	Spatial Control of Gene Expression by Nanocarriers Using Heparin Masking and Ultrasound-Targeted Microbubble Destruction. ACS Nano, 2016, 10, 7267-7278.	7.3	40
137	A decade of progress in tissue engineering. Nature Protocols, 2016, 11, 1775-1781.	5.5	570
138	Application of Targeted Molecular and Material Property Optimization to Bacterial Attachment-Resistant (Meth)acrylate Polymers. Biomacromolecules, 2016, 17, 2830-2838.	2.6	26
139	Advanced multimodal nanoparticles delay tumor progression with clinical radiation therapy. Journal of Controlled Release, 2016, 238, 103-113.	4.8	76
140	Sequenceâ€Defined Oligomers from Hydroxyproline Building Blocks for Parallel Synthesis Applications. Angewandte Chemie - International Edition, 2016, 55, 9529-9533.	7.2	56
141	Oral, ultraâ€"long-lasting drug delivery: Application toward malaria elimination goals. Science Translational Medicine, 2016, 8, 365ra157.	5.8	181
142	The PDGF-BB-SOX7 axis-modulated IL-33 in pericytes and stromal cells promotes metastasis through tumour-associated macrophages. Nature Communications, 2016, 7, 11385.	5.8	117
143	Past, Present, and Future Drug Delivery Systems for Antiretrovirals. Journal of Pharmaceutical Sciences, 2016, 105, 3471-3482.	1.6	23
144	A Janus Mucoadhesive and Omniphobic Device for Gastrointestinal Retention. Advanced Healthcare Materials, 2016, 5, 1141-1146.	3.9	27

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145	RNA therapeutics â€“ The potential treatment for myocardial infarction. Regenerative Therapy, 2016, 4, 83-91.	1.4	5
146	Bioprinting the Cancer Microenvironment. ACS Biomaterials Science and Engineering, 2016, 2, 1710-1721.	2.6	194
147	Physical and mechanical properties of PLA, and their functions in widespread applications â€” A comprehensive review. Advanced Drug Delivery Reviews, 2016, 107, 367-392.	6.6	1,957
148	Bioinspired Alkenyl Amino Alcohol Ionizable Lipid Materials for Highly Potent In Vivo mRNA Delivery. Advanced Materials, 2016, 28, 2939-2943.	11.1	172
149	RNAi-nanoparticulate manipulation of gene expression as a new functional genomics tool in the liver. Journal of Hepatology, 2016, 64, 899-907.	1.8	9
150	Of microneedles and ultrasound: Physical modes of gastrointestinal macromolecule delivery. Tissue Barriers, 2016, 4, e1150235.	1.6	18
151	Live-cell protein labelling with nanometre precision by cell squeezing. Nature Communications, 2016, 7, 10372.	5.8	94
152	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
153	Splenic progenitors aid in maintaining high neutrophil numbers at sites of sterile chronic inflammation. Journal of Leukocyte Biology, 2016, 100, 253-260.	1.5	14
154	Emerging Frontiers in Drug Delivery. Journal of the American Chemical Society, 2016, 138, 704-717.	6.6	776
155	TRAIL-coated leukocytes that prevent the bloodborne metastasis of prostate cancer. Journal of Controlled Release, 2016, 223, 215-223.	4.8	62
156	Engineering Stem Cell Organoids. Cell Stem Cell, 2016, 18, 25-38.	5.2	654
157	Poly(glycoamidoamine) Brushes Formulated Nanomaterials for Systemic siRNA and mRNA Delivery in Vivo. Nano Letters, 2016, 16, 842-848.	4.5	98
158	TOWARD GLOBAL ERADICATION OF INFECTIOUS DISEASE. , 2016, , .		0
159	Genetic and hypoxic alterations of the micro <scp>RNA</scp> â€210â€•<scp>ISCU</scp> 1/2 axis promote ironâ€“sulfur deficiency and pulmonary hypertension. EMBO Molecular Medicine, 2015, 7, 695-713.	3.3	120
160	Covalent Incorporation of Trehalose within Hydrogels for Enhanced Longâ€Term Functional Stability and Controlled Release of Biomacromolecules. Advanced Healthcare Materials, 2015, 4, 1802-1812.	3.9	21
161	Neutrophil Responses to Sterile Implant Materials. PLoS ONE, 2015, 10, e0137550.	1.1	92
162	A defined synthetic substrate for serum-free culture of human stem cell derived cardiomyocytes with improved functional maturity identified using combinatorial materials microarrays. Biomaterials, 2015, 61, 257-265.	5.7	47

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163	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
164	Ex Vivo Cytosolic Delivery of Functional Macromolecules to Immune Cells. PLoS ONE, 2015, 10, e0118803.	1.1	47
165	Microfluidic squeezing for intracellular antigen loading in polyclonal B-cells as cellular vaccines. Scientific Reports, 2015, 5, 10276.	1.6	88
166	Discovery of a Novel Polymer for Human Pluripotent Stem Cell Expansion and Multilineage Differentiation. Advanced Materials, 2015, 27, 4006-4012.	11.1	75
167	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
168	Repeatable and adjustable on-demand sciatic nerve block with phototriggerable liposomes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15719-15724.	3.3	97
169	Nanomedicines for endothelial disorders. Nano Today, 2015, 10, 759-776.	6.2	49
170	Non-genetic engineering of cells for drug delivery and cell-based therapy. Advanced Drug Delivery Reviews, 2015, 91, 125-140.	6.6	190
171	Glucose-responsive insulin activity by covalent modification with aliphatic phenylboronic acid conjugates. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2401-2406.	3.3	190
172	Cooperative Effects of Matrix Stiffness and Fluid Shear Stress on Endothelial Cell Behavior. Biophysical Journal, 2015, 108, 471-478.	0.2	118
173	Self-assembled hydrogels utilizing polymerâ€“nanoparticle interactions. Nature Communications, 2015, 6, 6295.	5.8	425
174	Applicability and safety of dual-frequency ultrasonic treatment for the transdermal delivery of drugs. Journal of Controlled Release, 2015, 202, 93-100.	4.8	48
175	Polymeric synthetic nanoparticles for the induction of antigen-specific immunological tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E156-65.	3.3	364
176	Immobilized surfactant-nanotube complexes support selectin-mediated capture of viable circulating tumor cells in the absence of capture antibodies. Journal of Biomedical Materials Research - Part A, 2015, 103, 3407-3418.	2.1	26
177	Exploiting Electrostatic Interactions in Polymerâ€“Nanoparticle Hydrogels. ACS Macro Letters, 2015, 4, 848-852.	2.3	95
178	A smart insulin patch. Nature, 2015, 524, 39-40.	13.7	55
179	A pH-responsive supramolecular polymer gel as an enteric elastomer for use in gastric devices. Nature Materials, 2015, 14, 1065-1071.	13.3	268
180	Nanoparticles with photoinduced precipitation for the extraction of pollutants from water and soil. Nature Communications, 2015, 6, 7765.	5.8	95

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181	Engineering synthetically modified insulin for glucose-responsive diabetes therapy. Expert Review of Endocrinology and Metabolism, 2015, 10, 483-489.	1.2	8
182	Engineering precision. Science Translational Medicine, 2015, 7, 289ed6.	5.8	10
183	Surfactant functionalization induces robust, differential adhesion of tumor cells and blood cells to charged nanotube-coated biomaterials under flow. Biomaterials, 2015, 56, 179-186.	5.7	41
184	An implantable microdevice to perform high-throughput in vivo drug sensitivity testing in tumors. Science Translational Medicine, 2015, 7, 284ra57.	5.8	150
185	Dendrimer-Inspired Nanomaterials for the in Vivo Delivery of siRNA to Lung Vasculature. Nano Letters, 2015, 15, 3008-3016.	4.5	113
186	In Vivo Compatibility of Graphene Oxide with Differing Oxidation States. ACS Nano, 2015, 9, 3866-3874.	7.3	197
187	Ultrahigh speed en face OCT capsule for endoscopic imaging. Biomedical Optics Express, 2015, 6, 1146.	1.5	60
188	Ultrasound-mediated gastrointestinal drug delivery. Science Translational Medicine, 2015, 7, 310ra168.	5.8	95
189	An inflammation-targeting hydrogel for local drug delivery in inflammatory bowel disease. Science Translational Medicine, 2015, 7, 300ra128.	5.8	288
190	The Engineering of Biology and Medicine. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14423-14423.	3.3	1
191	Managing diabetes with nanomedicine: challenges and opportunities. Nature Reviews Drug Discovery, 2015, 14, 45-57.	21.5	459
192	Leukocytes as carriers for targeted cancer drug delivery. Expert Opinion on Drug Delivery, 2015, 12, 375-392.	2.4	58
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