

Michael J Mitchell

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.

407
papers

66,401
citations

117
h-index

254
g-index

437
ext. papers

76,642
ext. citations

14.2
avg, IF

8.36
L-index

#	Paper	IF	Citations
407	Bioplastics for a circular economy.. <i>Nature Reviews Materials</i> , 2022 , 1-21	73.3	49
406	Lighting the way to personalized mRNA immune cell therapies.. <i>Science Advances</i> , 2022 , 8, eabo2423	14.3	0
405	Endothelial plasticity drives aberrant vascularization and impedes cardiac repair after myocardial infarction. 2022 , 1, 372-388		2
404	Amniotic fluid stabilized lipid nanoparticles for in utero intra-amniotic mRNA delivery. <i>Journal of Controlled Release</i> , 2021 , 341, 616-616	11.7	1
403	Orthogonal Design of Experiments for Optimization of Lipid Nanoparticles for mRNA Engineering of CAR T Cells. <i>Nano Letters</i> , 2021 ,	11.5	3
402	Peptide functionalized liposomes for receptor targeted cancer therapy. <i>APL Bioengineering</i> , 2021 , 5, 011501	6.6	14
401	Engineered drug delivery devices to address Global Health challenges. <i>Journal of Controlled Release</i> , 2021 , 331, 503-514	11.7	14
400	Delivery technologies to engineer natural killer cells for cancer immunotherapy. <i>Cancer Gene Therapy</i> , 2021 , 28, 947-959	5.4	3
399	Delivery technologies for T cell gene editing: Applications in cancer immunotherapy. <i>EBioMedicine</i> , 2021 , 67, 103354	8.8	6
398	Lipid Nanoparticle-Mediated Delivery of mRNA Therapeutics and Vaccines. <i>Trends in Molecular Medicine</i> , 2021 , 27, 616-617	11.5	16
397	Scalable mRNA and siRNA Lipid Nanoparticle Production Using a Parallelized Microfluidic Device. <i>Nano Letters</i> , 2021 , 21, 5671-5680	11.5	24
396	Microfluidic formulation of nanoparticles for biomedical applications. <i>Biomaterials</i> , 2021 , 274, 120826	15.6	41
395	One-Component Multifunctional Sequence-Defined Ionizable Amphiphilic Janus Dendrimer Delivery Systems for mRNA. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12315-12327	16.4	19
394	Microgel encapsulated nanoparticles for glucose-responsive insulin delivery. <i>Biomaterials</i> , 2021 , 267, 120458	15.6	10
393	Polyphosphazene immunoadjuvants: Historical perspective and recent advances. <i>Journal of Controlled Release</i> , 2021 , 329, 299-315	11.7	8
392	Engineering precision nanoparticles for drug delivery. <i>Nature Reviews Drug Discovery</i> , 2021 , 20, 101-124	64.1	822
391	Delivery technologies for in utero gene therapy. <i>Advanced Drug Delivery Reviews</i> , 2021 , 169, 51-62	18.5	7

390	A Nanoparticle Platform for Accelerated In Vivo Oral Delivery Screening of Nucleic Acids. <i>Advanced Therapeutics</i> , 2021 , 4, 2000111	4.9	2
389	Helper lipid structure influences protein adsorption and delivery of lipid nanoparticles to spleen and liver. <i>Biomaterials Science</i> , 2021 , 9, 1449-1463	7.4	16
388	Ionizable lipid nanoparticles for in utero mRNA delivery. <i>Science Advances</i> , 2021 , 7,	14.3	34
387	Nanomaterials for T-cell cancer immunotherapy. <i>Nature Nanotechnology</i> , 2021 , 16, 25-36	28.7	57
386	A microneedle platform for buccal macromolecule delivery. <i>Science Advances</i> , 2021 , 7,	14.3	21
385	Oral delivery of systemic monoclonal antibodies, peptides and small molecules using gastric auto-injectors. <i>Nature Biotechnology</i> , 2021 ,	44.5	10
384	Lipid nanoparticles for mRNA delivery. <i>Nature Reviews Materials</i> , 2021 , 1-17	73.3	228
383	Randomized Controlled Trial of a Dichoptic Digital Therapeutic for Amblyopia. <i>Ophthalmology</i> , 2021 ,	7.3	7
382	Additive manufacturing in drug delivery: Innovative drug product design and opportunities for industrial application. <i>Advanced Drug Delivery Reviews</i> , 2021 , 178, 113990	18.5	4
381	Nucleic acid delivery for therapeutic applications. <i>Advanced Drug Delivery Reviews</i> , 2021 , 178, 113834	18.5	16
380	A therapeutic convection-enhanced macroencapsulation device for enhancing cell viability and insulin secretion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	7
379	Engineered insulin-polycation complexes for glucose-responsive delivery with high insulin loading. <i>Journal of Controlled Release</i> , 2021 , 338, 71-79	11.7	1
378	BBB pathophysiology-independent delivery of siRNA in traumatic brain injury. <i>Science Advances</i> , 2021 , 7,	14.3	20
377	Added to pre-existing inflammation, mRNA-lipid nanoparticles induce inflammation exacerbation (IE).. <i>Journal of Controlled Release</i> , 2021 ,	11.7	7
376	An ionizable lipid toolbox for RNA delivery.. <i>Nature Communications</i> , 2021 , 12, 7233	17.4	27
375	Parallel evolution of polymer chemistry and immunology: Integrating mechanistic biology with materials design. <i>Advanced Drug Delivery Reviews</i> , 2020 , 156, 65-79	18.5	6
374	Cyclodextrins in drug delivery: applications in gene and combination therapy. <i>Drug Delivery and Translational Research</i> , 2020 , 10, 661-677	6.2	32
373	Ionizable Lipid Nanoparticle-Mediated mRNA Delivery for Human CAR T Cell Engineering. <i>Nano Letters</i> , 2020 , 20, 1578-1589	11.5	125

372	A Nanoprimer To Improve the Systemic Delivery of siRNA and mRNA. <i>Nano Letters</i> , 2020 , 20, 4264-4269	11.5	20
371	Robotically handled whole-tissue culture system for the screening of oral drug formulations. <i>Nature Biomedical Engineering</i> , 2020 , 4, 544-559	19	21
370	Glucose-responsive insulin patch for the regulation of blood glucose in mice and minipigs. <i>Nature Biomedical Engineering</i> , 2020 , 4, 499-506	19	166
369	Chiral Supraparticles for Controllable Nanomedicine. <i>Advanced Materials</i> , 2020 , 32, e1903878	24	59
368	InVivo RNAi-Mediated eIF3m Knockdown Affects Ribosome Biogenesis and Transcription but Has Limited Impact on mRNA-Specific Translation. <i>Molecular Therapy - Nucleic Acids</i> , 2020 , 19, 252-266	10.7	9
367	Glucose-Responsive Nanoparticles for Rapid and Extended Self-Regulated Insulin Delivery. <i>ACS Nano</i> , 2020 , 14, 488-497	16.7	63
366	Exploiting the placenta for nanoparticle-mediated drug delivery during pregnancy. <i>Advanced Drug Delivery Reviews</i> , 2020 , 160, 244-261	18.5	15
365	Nasal Calcium-Rich Salts for Cleaning Airborne Particles from the Airways of Essential Workers, Students, and a Family in Quarantine. <i>Molecular Frontiers Journal</i> , 2020 , 04, 36-45	0.9	6
364	Nanoparticle-encapsulated siRNAs for gene silencing in the haematopoietic stem-cell niche. <i>Nature Biomedical Engineering</i> , 2020 , 4, 1076-1089	19	29
363	Delivery of Tissue-Targeted Scalpels: Opportunities and Challenges for CRISPR/Cas-Based Genome Editing. <i>ACS Nano</i> , 2020 , 14, 9243-9262	16.7	27
362	Computationally Guided Intracerebral Drug Delivery via Chronically Implanted Microdevices. <i>Cell Reports</i> , 2020 , 31, 107734	10.6	2
361	Nanomaterials for Therapeutic RNA Delivery. <i>Matter</i> , 2020 , 3, 1948-1975	12.7	26
360	A New Natural Defense Against Airborne Pathogens. <i>QRB Discovery</i> , 2020 , 1, e5	2.7	8
359	Advances in oligonucleotide drug delivery. <i>Nature Reviews Drug Discovery</i> , 2020 , 19, 673-694	64.1	407
358	Proton-driven transformable nanovaccine for cancer immunotherapy. <i>Nature Nanotechnology</i> , 2020 , 15, 1053-1064	28.7	83
357	Ingestible transiently anchoring electronics for microstimulation and conductive signaling. <i>Science Advances</i> , 2020 , 6, eaaz0127	14.3	16
356	A crosslinked polymer skin barrier film for moderate to severe atopic dermatitis: A pilot study in adults. <i>Journal of the American Academy of Dermatology</i> , 2020 , 82, 895-901	4.5	4
355	Can Fish and Cell Phones Teach Us about Our Health?. <i>ACS Sensors</i> , 2019 , 4, 2566-2570	9.2	1

354	A luminal unfolding microneedle injector for oral delivery of macromolecules. <i>Nature Medicine</i> , 2019 , 25, 1512-1518	50.5	88
353	Chondrogenic, hypertrophic, and osteochondral differentiation of human mesenchymal stem cells on three-dimensionally woven scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019 , 13, 1453-1465	4.4	14
352	Nanoparticles for nucleic acid delivery: Applications in cancer immunotherapy. <i>Cancer Letters</i> , 2019 , 458, 102-112	9.9	44
351	Temperature-responsive biometamaterials for gastrointestinal applications. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	28
350	Polyimide Electrode-Based Electrical Stimulation Impedes Early Stage Muscle Graft Regeneration. <i>Frontiers in Neurology</i> , 2019 , 10, 252	4.1	4
349	An ingestible self-orienting system for oral delivery of macromolecules. <i>Science</i> , 2019 , 363, 611-615	33.3	164
348	BOLA (Bola Family Member 3) Deficiency Controls Endothelial Metabolism and Glycine Homeostasis in Pulmonary Hypertension. <i>Circulation</i> , 2019 , 139, 2238-2255	16.7	28
347	Using Large Datasets to Understand Nanotechnology. <i>Advanced Materials</i> , 2019 , 31, e1902798	24	31
346	Ionizable lipid nanoparticles encapsulating barcoded mRNA for accelerated in vivo delivery screening. <i>Journal of Controlled Release</i> , 2019 , 316, 404-417	11.7	42
345	Gene Delivery: Inhaled Nanoformulated mRNA Polyplexes for Protein Production in Lung Epithelium (Adv. Mater. 8/2019). <i>Advanced Materials</i> , 2019 , 31, 1970053	24	3
344	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	44.5	200
343	Inhaled Nanoformulated mRNA Polyplexes for Protein Production in Lung Epithelium. <i>Advanced Materials</i> , 2019 , 31, e1805116	24	118
342	Drug loading augmentation in polymeric nanoparticles using a coaxial turbulent jet mixer: Yong investigator perspective. <i>Journal of Colloid and Interface Science</i> , 2019 , 538, 45-50	9.3	8
341	Delivery technologies for cancer immunotherapy. <i>Nature Reviews Drug Discovery</i> , 2019 , 18, 175-196	64.1	823
340	Convergence for Translation: Drug-Delivery Research in Multidisciplinary Teams. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4156-4163	16.4	5
339	Translation durch Konvergenz: Drug-Delivery-Forschung in multidisziplinären Teams. <i>Angewandte Chemie</i> , 2018 , 130, 4226-4234	3.6	0
338	Caffeine-catalyzed gels. <i>Biomaterials</i> , 2018 , 170, 127-135	15.6	5
337	Nanoparticles for Immune Cytokine TRAIL-Based Cancer Therapy. <i>ACS Nano</i> , 2018 , 12, 912-931	16.7	81

336	Rapid, Single-Cell Analysis and Discovery of Vectored mRNA Transfection In Vivo with a loxP-Flanked tdTomato Reporter Mouse. <i>Molecular Therapy - Nucleic Acids</i> , 2018 , 10, 55-63	10.7	34
335	Development of an oral once-weekly drug delivery system for HIV antiretroviral therapy. <i>Nature Communications</i> , 2018 , 9, 2	17.4	120
334	Design and Synthesis of Waterborne Polyurethanes. <i>Advanced Materials</i> , 2018 , 30, e1706237	24	73
333	Genotype-targeted local therapy of glioma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8388-E8394	11.5	29
332	Circulating Magnetic Microbubbles for Localized Real-Time Control of Drug Delivery by Ultrasonography-Guided Magnetic Targeting and Ultrasound. <i>Theranostics</i> , 2018 , 8, 341-357	12.1	39
331	Intracellular Delivery by Membrane Disruption: Mechanisms, Strategies, and Concepts. <i>Chemical Reviews</i> , 2018 , 118, 7409-7531	68.1	280
330	Advances in Biomaterials for Drug Delivery. <i>Advanced Materials</i> , 2018 , 30, e1705328	24	352
329	Molecular Rotors for Universal Quantitation of Nanoscale Hydrophobic Interfaces in Microplate Format. <i>Nano Letters</i> , 2018 , 18, 618-628	11.5	3
328	Nanomaterial Interactions with Human Neutrophils. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 4255-4265	5.5	25
327	Potent in vivo lung cancer Wnt signaling inhibition via cyclodextrin-LGK974 inclusion complexes. <i>Journal of Controlled Release</i> , 2018 , 290, 75-87	11.7	21
326	Biomaterials for vaccine-based cancer immunotherapy. <i>Journal of Controlled Release</i> , 2018 , 292, 256-276	11.7	93
325	Electroresponsive Aminoacrylate Synthetic Hydrogels: Easily Accessible and Operationally Simple Biomaterials Networks. <i>Angewandte Chemie</i> , 2018 , 130, 16258-16261	3.6	3
324	Restoration of tumour-growth suppression in vivo via systemic nanoparticle-mediated delivery of PTEN mRNA. <i>Nature Biomedical Engineering</i> , 2018 , 2, 850-864	19	127
323	Endothelial siRNA delivery in nonhuman primates using ionizable low-molecular weight polymeric nanoparticles. <i>Science Advances</i> , 2018 , 4, eaar8409	14.3	51
322	Seeing through the interface: poly(ϵ -Caprolactone) surface modification of poly(glycerol-co-sebacic acid) membranes in adult porcine retinal explants. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 2349-2358	4.4	6
321	Biodegradable scaffolds promote tissue remodeling and functional improvement in non-human primates with acute spinal cord injury. <i>Biomaterials</i> , 2017 , 123, 63-76	15.6	58
320	Ultrasound-Mediated Delivery of RNA to Colonic Mucosa of Live Mice. <i>Gastroenterology</i> , 2017 , 152, 1151-1160	11.6	35
319	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	10.6	103

318	Subcellular probes for neurochemical recording from multiple brain sites. <i>Lab on A Chip</i> , 2017 , 17, 1104-1115	11.5	36
317	Comprehensive proteomic characterization of stem cell-derived extracellular matrices. <i>Biomaterials</i> , 2017 , 128, 147-159	15.6	83
316	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	11.5	101
315	Prolonged energy harvesting for ingestible devices. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	98
314	Metabolic control of primed human pluripotent stem cell fate and function by the miR-200c-SIRT2 axis. <i>Nature Cell Biology</i> , 2017 , 19, 445-456	23.4	90
313	The promise of organ and tissue preservation to transform medicine. <i>Nature Biotechnology</i> , 2017 , 35, 530-542	44.5	246
312	Investigating the Cellular Specificity in Tumors of a Surface-Converting Nanoparticle by Multimodal Imaging. <i>Bioconjugate Chemistry</i> , 2017 , 28, 1413-1421	6.3	6
311	Polymeric mechanical amplifiers of immune cytokine-mediated apoptosis. <i>Nature Communications</i> , 2017 , 8, 14179	17.4	21
310	Synthetic microparticles conjugated with VEGF improve the survival of endothelial progenitor cells via microRNA-17 inhibition. <i>Nature Communications</i> , 2017 , 8, 747	17.4	28
309	Mechanistic understanding of in vivo protein corona formation on polymeric nanoparticles and impact on pharmacokinetics. <i>Nature Communications</i> , 2017 , 8, 777	17.4	362
308	Engineering and physical sciences in oncology: challenges and opportunities. <i>Nature Reviews Cancer</i> , 2017 , 17, 659-675	31.3	153
307	Nanoparticulate Drug Delivery Systems Targeting Inflammation for Treatment of Inflammatory Bowel Disease. <i>Nano Today</i> , 2017 , 16, 82-96	17.9	78
306	Defining optimal permeant characteristics for ultrasound-mediated gastrointestinal delivery. <i>Journal of Controlled Release</i> , 2017 , 268, 113-119	11.7	10
305	Regulation of Peripheral Myelination through Transcriptional Buffering of Egr2 by an Antisense Long Non-coding RNA. <i>Cell Reports</i> , 2017 , 20, 1950-1963	10.6	17
304	Drug delivery by supramolecular design. <i>Chemical Society Reviews</i> , 2017 , 46, 6600-6620	58.5	366
303	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	24	105
302	Evolution of macromolecular complexity in drug delivery systems. <i>Nature Reviews Chemistry</i> , 2017 , 1,	34.6	174
301	Applications of ethylene vinyl acetate copolymers (EVA) in drug delivery systems. <i>Journal of Controlled Release</i> , 2017 , 262, 284-295	11.7	95

300	Nanostructured Fibrous Membranes with Rose Spike-Like Architecture. <i>Nano Letters</i> , 2017 , 17, 6235-6240	11.5	60
299	Oral delivery of biologics using drug-device combinations. <i>Current Opinion in Pharmacology</i> , 2017 , 36, 8-13	5.1	24
298	Triggerable tough hydrogels for gastric resident dosage forms. <i>Nature Communications</i> , 2017 , 8, 124	17.4	74
297	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	11.5	75
296	Bioresponsive materials. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	828
295	Lipid Nanoparticle Assisted mRNA Delivery for Potent Cancer Immunotherapy. <i>Nano Letters</i> , 2017 , 17, 1326-1335	11.5	302
294	Ly6Clo monocytes drive immunosuppression and confer resistance to anti-VEGFR2 cancer therapy. <i>Journal of Clinical Investigation</i> , 2017 , 127, 3039-3051	15.9	87
293	A decade of progress in tissue engineering. <i>Nature Protocols</i> , 2016 , 11, 1775-81	18.8	387
292	Application of Targeted Molecular and Material Property Optimization to Bacterial Attachment-Resistant (Meth)acrylate Polymers. <i>Biomacromolecules</i> , 2016 , 17, 2830-8	6.9	17
291	Advanced multimodal nanoparticles delay tumor progression with clinical radiation therapy. <i>Journal of Controlled Release</i> , 2016 , 238, 103-113	11.7	63
290	Sequence-Defined Oligomers from Hydroxyproline Building Blocks for Parallel Synthesis Applications. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9529-33	16.4	39
289	Intracellular Delivery of Biomolecules by Mechanical Deformation 2016 , 143-176		1
288	Oral, ultra-long-lasting drug delivery: Application toward malaria elimination goals. <i>Science Translational Medicine</i> , 2016 , 8, 365ra157	17.5	125
287	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	17.4	80
286	Past, Present, and Future Drug Delivery Systems for Antiretrovirals. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 3471-3482	3.9	19
285	A Janus Mucoadhesive and Omniphobic Device for Gastrointestinal Retention. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1141-6	10.1	20
284	RNA therapeutics - The potential treatment for myocardial infarction. <i>Regenerative Therapy</i> , 2016 , 4, 83-91	3.7	2
283	Bioprinting the Cancer Microenvironment. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1710-1721	5.5	148

282	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	18.5	1194
281	Bioinspired Alkenyl Amino Alcohol Ionizable Lipid Materials for Highly Potent In Vivo mRNA Delivery. <i>Advanced Materials</i> , 2016 , 28, 2939-43	24	125
280	RNAi-nanoparticulate manipulation of gene expression as a new functional genomics tool in the liver. <i>Journal of Hepatology</i> , 2016 , 64, 899-907	13.4	9
279	Of microneedles and ultrasound: Physical modes of gastrointestinal macromolecule delivery. <i>Tissue Barriers</i> , 2016 , 4, e1150235	4.3	13
278	Live-cell protein labelling with nanometre precision by cell squeezing. <i>Nature Communications</i> , 2016 , 7, 10372	17.4	77
277	Therapeutic genome editing by combined viral and non-viral delivery of CRISPR system components in vivo. <i>Nature Biotechnology</i> , 2016 , 34, 328-33	44.5	610
276	Frontline Science: Splenic progenitors aid in maintaining high neutrophil numbers at sites of sterile chronic inflammation. <i>Journal of Leukocyte Biology</i> , 2016 , 100, 253-60	6.5	7
275	Emerging Frontiers in Drug Delivery. <i>Journal of the American Chemical Society</i> , 2016 , 138, 704-17	16.4	625
274	TRAIL-coated leukocytes that prevent the bloodborne metastasis of prostate cancer. <i>Journal of Controlled Release</i> , 2016 , 223, 215-223	11.7	47
273	Engineering Stem Cell Organoids. <i>Cell Stem Cell</i> , 2016 , 18, 25-38	18	494
272	Poly(glycoamidoamine) Brushes Formulated Nanomaterials for Systemic siRNA and mRNA Delivery in Vivo. <i>Nano Letters</i> , 2016 , 16, 842-8	11.5	82
271	Circumferential optical coherence tomography angiography imaging of the swine esophagus using a micromotor balloon catheter. <i>Biomedical Optics Express</i> , 2016 , 7, 2927-42	3.5	23
270	Multi-Material Tissue Engineering Scaffold with Hierarchical Pore Architecture. <i>Advanced Functional Materials</i> , 2016 , 26, 5873-5883	15.6	21
269	Poly(Limonene Thioether) Scaffold for Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2016 , 5, 813-21	11.1	12
268	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	11.5	233
267	Sequence-Defined Oligomers from Hydroxyproline Building Blocks for Parallel Synthesis Applications. <i>Angewandte Chemie</i> , 2016 , 128, 9681-9685	3.6	18
266	A tunable delivery platform to provide local chemotherapy for pancreatic ductal adenocarcinoma. <i>Biomaterials</i> , 2016 , 93, 71-82	15.6	27
265	An elastic second skin. <i>Nature Materials</i> , 2016 , 15, 911-8	27	144

264	mRNA vaccine delivery using lipid nanoparticles. <i>Therapeutic Delivery</i> , 2016 , 7, 319-34	3.8	241
263	A Size-Selective Intracellular Delivery Platform. <i>Small</i> , 2016 , 12, 5873-5881	11	18
262	In vitro and ex vivo strategies for intracellular delivery. <i>Nature</i> , 2016 , 538, 183-192	50.4	489
261	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	11.5	164
260	Spatial Control of Gene Expression by Nanocarriers Using Heparin Masking and Ultrasound-Targeted Microbubble Destruction. <i>ACS Nano</i> , 2016 , 10, 7267-78	16.7	36
259	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	11.5	295
258	Immobilized surfactant-nanotube complexes support selectin-mediated capture of viable circulating tumor cells in the absence of capture antibodies. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3407-18	5.4	25
257	Exploiting Electrostatic Interactions in Polymer Nanoparticle Hydrogels. <i>ACS Macro Letters</i> , 2015 , 4, 848-852	6.6	68
256	Diabetes: A smart insulin patch. <i>Nature</i> , 2015 , 524, 39-40	50.4	41
255	A pH-responsive supramolecular polymer gel as an enteric elastomer for use in gastric devices. <i>Nature Materials</i> , 2015 , 14, 1065-71	27	218
254	Nanoparticles with photoinduced precipitation for the extraction of pollutants from water and soil. <i>Nature Communications</i> , 2015 , 6, 7765	17.4	79
253	Engineering Synthetically Modified Insulin for Glucose-Responsive Diabetes Therapy. <i>Expert Review of Endocrinology and Metabolism</i> , 2015 , 10, 483-489	4.1	8
252	Surfactant functionalization induces robust, differential adhesion of tumor cells and blood cells to charged nanotube-coated biomaterials under flow. <i>Biomaterials</i> , 2015 , 56, 179-86	15.6	35
251	An implantable microdevice to perform high-throughput in vivo drug sensitivity testing in tumors. <i>Science Translational Medicine</i> , 2015 , 7, 284ra57	17.5	109
250	Dendrimer-Inspired Nanomaterials for the in Vivo Delivery of siRNA to Lung Vasculature. <i>Nano Letters</i> , 2015 , 15, 3008-16	11.5	90
249	In vivo compatibility of graphene oxide with differing oxidation states. <i>ACS Nano</i> , 2015 , 9, 3866-74	16.7	172
248	Ultrahigh speed en face OCT capsule for endoscopic imaging. <i>Biomedical Optics Express</i> , 2015 , 6, 1146-63	3.5	48
247	Ultrasound-mediated gastrointestinal drug delivery. <i>Science Translational Medicine</i> , 2015 , 7, 310ra168	17.5	64

246	An inflammation-targeting hydrogel for local drug delivery in inflammatory bowel disease. <i>Science Translational Medicine</i> , 2015 , 7, 300ra128	17.5	196
245	The Engineering of Biology and Medicine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14423	11.5	1
244	Managing diabetes with nanomedicine: challenges and opportunities. <i>Nature Reviews Drug Discovery</i> , 2015 , 14, 45-57	64.1	359
243	Leukocytes as carriers for targeted cancer drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2015 , 12, 375-92		47
242	Genetic and hypoxic alterations of the microRNA-210-ISCU1/2 axis promote iron-sulfur deficiency and pulmonary hypertension. <i>EMBO Molecular Medicine</i> , 2015 , 7, 695-713	12	96
241	Development of Combination Product Drug Delivery Systems 2015 , 66-87		1
240	Covalent Incorporation of Trehalose within Hydrogels for Enhanced Long-Term Functional Stability and Controlled Release of Biomacromolecules. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1802-12	10.1	16
239	Neutrophil Responses to Sterile Implant Materials. <i>PLoS ONE</i> , 2015 , 10, e0137550	3.7	64
238	A defined synthetic substrate for serum-free culture of human stem cell derived cardiomyocytes with improved functional maturity identified using combinatorial materials microarrays. <i>Biomaterials</i> , 2015 , 61, 257-65	15.6	42
237	Size- and shape-dependent foreign body immune response to materials implanted in rodents and non-human primates. <i>Nature Materials</i> , 2015 , 14, 643-51	27	534
236	Ex vivo cytosolic delivery of functional macromolecules to immune cells. <i>PLoS ONE</i> , 2015 , 10, e0118803	3.7	38
235	Microfluidic squeezing for intracellular antigen loading in polyclonal B-cells as cellular vaccines. <i>Scientific Reports</i> , 2015 , 5, 10276	4.9	61
234	Discovery of a Novel Polymer for Human Pluripotent Stem Cell Expansion and Multilineage Differentiation. <i>Advanced Materials</i> , 2015 , 27, 4006-12	24	64
233	Lamin A/C deficiency reduces circulating tumor cell resistance to fluid shear stress. <i>American Journal of Physiology - Cell Physiology</i> , 2015 , 309, C736-46	5.4	61
232	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, 15719-24	11.5	74
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