Robert Samuel Langer Jr

List of Publications by Year
in descending order

367	117,711	293 139	130 335
papers	citations	h-index	g-index

377	377	377	92320
all docs	docs citations	times ranked	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	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
3	Oral mRNA delivery using capsule-mediated gastrointestinal tissue injections. Matter, 2022, 5, 975-987.	5.0	48
4	Bioplastics for a circular economy. Nature Reviews Materials, 2022, 7, 117-137.	23.3	550
5	Dynamic omnidirectional adhesive microneedle system for oral macromolecular drug delivery. Science Advances, 2022, 8, eabk1792.	4.7	54
6	Role of drug delivery technologies in the success of COVID-19 vaccines: a perspective. Drug Delivery and Translational Research, 2022, 12, 2581-2588.	3.0	17
7	Engineered nanoparticles enable deep proteomics studies at scale by leveraging tunable nanoâ€“bio interactions. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2106053119.	3.3	29
8	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
9	Development of oil-based gels as versatile drug delivery systems for pediatric applications. Science Advances, 2022, 8, .	4.7	19
10	Micromolding of Thermoplastic Polymers for Direct Fabrication of Discrete, Multilayered Microparticles. Small Methods, 2022, 6, .	4.6	6
11	Delivery of therapeutic carbon monoxide by gas-entrapping materials. Science Translational Medicine, 2022, 14, .	5.8	21
12	Experimental and computational understanding of pulsatile release mechanism from biodegradable core-shell microparticles. Science Advances, 2022, 8, .	4.7	16
13	Microgel encapsulated nanoparticles for glucose-responsive insulin delivery. Biomaterials, 2021, 267, 120458.	5.7	32
14	Analysis of the Human Plasma Proteome Using Multiâ€Nanoparticle Protein Corona for Detection of Alzheimer's Disease. Advanced Healthcare Materials, 2021, 10, e2000948.	3.9	19
15	Engineering precision nanoparticles for drug delivery. Nature Reviews Drug Discovery, 2021, 20, 101-124.	21.5	3,154
16	Inverse Pneumatic Artificial Muscles for Application in Lowâ€Cost Ventilators. Advanced Intelligent Systems, 2021, 3, 2000200.	3.3	6
17	Microtechnologies and Nanotechnologies in Drug Delivery. , 2021, , .		0
18	A microneedle platform for buccal macromolecule delivery. Science Advances, 2021, 7, .	4.7	70

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19	Exhaled aerosol increases with COVID-19 infection, age, and obesity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	161
20	Improved Speech Intelligibility in Subjects With Stable Sensorineural Hearing Loss Following Intratympanic Dosing of FX-322 in a Phase 1b Study. Otology and Neurotology, 2021, 42, e849-e857.	0.7	34
21	Nanotechnology approaches for global infectious diseases. Nature Nanotechnology, 2021, 16, 369-384.	15.6	232
22	Computationally guided high-throughput design of self-assembling drug nanoparticles. Nature Nanotechnology, 2021, 16, 725-733.	15.6	64
23	Engineered drug delivery devices to address Global Health challenges. Journal of Controlled Release, 2021, 331, 503-514.	4.8	35
24	The surface topography of silicone breast implants mediates the foreign body response in mice, rabbits and humans. Nature Biomedical Engineering, 2021, 5, 1115-1130.	11.6	126
25	Reply to Stohner: On the significance of BMI-age dependence of exhaled aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2107559118.	3.3	0
26	Facts and Figures on Materials Science and Nanotechnology Progress and Investment. ACS Nano, 2021, 15, 15940-15952.	7.3	48
27	Stimuli-responsive transdermal microneedle patches. Materials Today, 2021, 47, 206-222.	8.3	129
28	Wireless on-demand drug delivery. Nature Electronics, 2021, 4, 464-477.	13.1	91
29	Lipid nanoparticles for mRNA delivery. Nature Reviews Materials, 2021, 6, 1078-1094.	23.3	1,256
30	Additive manufacturing in drug delivery: Innovative drug product design and opportunities for industrial application. Advanced Drug Delivery Reviews, 2021, 178, 113990.	6.6	28
31	A technology evaluation of CVT-301 (Inbrija): an inhalable therapy for treatment of Parkinsonâ€™s disease. Expert Opinion on Drug Delivery, 2021, 18, 1559-1569.	2.4	7
32	Nucleic acid delivery for therapeutic applications. Advanced Drug Delivery Reviews, 2021, 178, 113834.	6.6	122
33	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
34	Engineered insulin-polycation complexes for glucose-responsive delivery with high insulin loading. Journal of Controlled Release, 2021, 338, 71-79.	4.8	14
35	BBB pathophysiologyâ€“independent delivery of siRNA in traumatic brain injury. Science Advances, 2021, 7, .	4.7	67
36	Implantable system for chronotherapy. Science Advances, 2021, 7, eabj4624.	4.7	9

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37	Controlled delivery of gold nanoparticle-coupled miRNA therapeuticsviaan injectable self-healing hydrogel. Nanoscale, 2021, 13, 20451-20461.	2.8	15
38	Biohybrid Design Gets Personal: New Materials for Patientâ€Specific Therapy. Advanced Materials, 2020, 32, e1901969.	11.1	21
39	Outlooks on Three-Dimensional Printing for Ocular Biomaterials Research. Journal of Ocular Pharmacology and Therapeutics, 2020, 36, 7-17.	0.6	16
40	Chiral Supraparticles for Controllable Nanomedicine. Advanced Materials, 2020, 32, e1903878.	11.1	118
41	From Molecule to Patient: A Biotech Perspective. Clinical Pharmacology and Therapeutics, 2020, 107, 65-67.	2.3	3
42	Glucose-Responsive Nanoparticles for Rapid and Extended Self-Regulated Insulin Delivery. ACS Nano, 2020, 14, 488-497.	7.3	113
43	Platform for micro-invasive membrane-free biochemical sampling of brain interstitial fluid. Science Advances, 2020, 6, .	4.7	11
44	Dopamine and beta-band oscillations differentially link to striatal value and motor control. Science Advances, 2020, 6, .	4.7	23
45	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
46	A materials-science perspective on tackling COVID-19. Nature Reviews Materials, 2020, 5, 847-860.	23.3	228
47	Nanoparticle-encapsulated siRNAs for gene silencing in the haematopoietic stem-cell niche. Nature Biomedical Engineering, 2020, 4, 1076-1089.	11.6	80
48	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
49	Rapid, deep and precise profiling of the plasma proteome with multi-nanoparticle protein corona. Nature Communications, 2020, 11, 3662.	5.8	175
50	Modeling, design, and machine learning-based framework for optimal injectability of microparticle-based drug formulations. Science Advances, 2020, 6, eabb6594.	4.7	42
51	Computationally Guided Intracerebral Drug Delivery via Chronically Implanted Microdevices. Cell Reports, 2020, 31, 107734.	2.9	5
52	Trends in Therapeutic Conjugates: Bench to Clinic. Bioconjugate Chemistry, 2020, 31, 462-473.	1.8	21
53	Advances in oligonucleotide drug delivery. Nature Reviews Drug Discovery, 2020, 19, 673-694.	21.5	1,036
54	Engineered PLGA microparticles for long-term, pulsatile release of STING agonist for cancer immunotherapy. Science Translational Medicine, 2020, 12, .	5.8	117

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55	Chemical Tuning of Fibers Drawn from Extensible Hyaluronic Acid Networks. Journal of the American Chemical Society, 2020, 142, 19715-19721.	6.6	24
56	Ingestible transiently anchoring electronics for microstimulation and conductive signaling. Science Advances, 2020, 6, eaaz0127.	4.7	35
57	Development of a long-acting direct-acting antiviral system for hepatitis C virus treatment in swine. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11987-11994.	3.3	15
58	A rapidly deployable individualized system for augmenting ventilator capacity. Science Translational Medicine, 2020, 12, .	5.8	23
59	Polymer Nanocomposite Microactuators for On-Demand Chemical Release via High-Frequency Magnetic Field Excitation. Nano Letters, 2020, 20, 4816-4822.	4.5	12
60	Parallel evolution of polymer chemistry and immunology: Integrating mechanistic biology with materials design. Advanced Drug Delivery Reviews, 2020, 156, 65-79.	6.6	15
61	Machine Learning Uncovers Food- and Excipient-Drug Interactions. Cell Reports, 2020, 30, 3710-3716.e4.	2.9	37
62	A retrievable implant for the long-term encapsulation and survival of therapeutic xenogeneic cells. Nature Biomedical Engineering, 2020, 4, 814-826.	11.6	90
63	Magnetic Retrieval of Encapsulated Beta Cell Transplants from Diabetic Mice Using Dualâ€Function MRI Visible and Retrievable Microcapsules. Advanced Materials, 2020, 32, e1904502.	11.1	15
64	Simultaneous recording and marking of brain microstructures. Journal of Neural Engineering, 2020, 17, 044001.	1.8	1
65	Light-degradable hydrogels as dynamic triggers for gastrointestinal applications. Science Advances, 2020, 6, eaay0065.	4.7	71
66	A Nanoprimer To Improve the Systemic Delivery of siRNA and mRNA. Nano Letters, 2020, 20, 4264-4269.	4.5	51
67	Robotically handled whole-tissue culture system for the screening of oral drug formulations. Nature Biomedical Engineering, 2020, 4, 544-559.	11.6	35
68	Clinical Opportunities for Continuous Biosensing and Closed-Loop Therapies. Trends in Chemistry, 2020, 2, 319-340.	4.4	39
69	Actuation of untethered pneumatic artificial muscles and soft robots using magnetically induced liquid-to-gas phase transitions. Science Robotics, 2020, 5, .	9.9	101
70	Glucose-responsive insulin patch for the regulation of blood glucose in mice and minipigs. Nature Biomedical Engineering, 2020, 4, 499-506.	11.6	353
71	Nanofibrillar Patches of Commensal Skin Bacteria. Biomacromolecules, 2019, 20, 102-108.	2.6	10
72	Injectable Polymerâ€“Nanoparticle Hydrogels for Local Immune Cell Recruitment. Biomacromolecules, 2019, 20, 4430-4436.	2.6	58

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73	A heat-stable microparticle platform for oral micronutrient delivery. Science Translational Medicine, 2019, 11, .	5.8	20
74	A New Approach for Microfabrication of Printed Circuit Boards with Ultrafine Traces. ACS Applied Materials & Interfaces, 2019, 11, 35376-35381.	4.0	5
75	Can Fish and Cell Phones Teach Us about Our Health?. ACS Sensors, 2019, 4, 2566-2570.	4.0	2
76	A luminal unfolding microneedle injector for oral delivery of macromolecules. Nature Medicine, 2019, 25, 1512-1518.	15.2	167
77	Blocking CXCR4 alleviates desmoplasia, increases T-lymphocyte infiltration, and improves immunotherapy in metastatic breast cancer. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4558-4566.	3.3	274
78	Long-term implant fibrosis prevention in rodents and non-human primates using crystallized drug formulations. Nature Materials, 2019, 18, 892-904.	13.3	114
79	Steerable Microinvasive Probes for Localized Drug Delivery to Deep Tissue. Small, 2019, 15, e1901459.	5.2	17
80	Controlling the movement of molecules. Quarterly Reviews of Biophysics, 2019, 52, .	2.4	8
81	Reprogramming the microenvironment with tumor-selective angiotensin blockers enhances cancer immunotherapy. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10674-10680.	3.3	150
82	Temperature-responsive biometamaterials for gastrointestinal applications. Science Translational Medicine, 2019, 11, .	5.8	51
83	Ultra-rapid drug delivery in the oral cavity using ultrasound. Journal of Controlled Release, 2019, 304, 1-6.	4.8	12
84	A gastric resident drug delivery system for prolonged gram-level dosing of tuberculosis treatment. Science Translational Medicine, 2019, 11, .	5.8	38
85	Polymers for extended-release administration. Biomedical Microdevices, 2019, 21, 45.	1.4	21
86	Making the case: developing innovative adherence solutions for the treatment of tuberculosis. BMJ Global Health, 2019, 4, e001323.	2.0	10
87	An ingestible self-orienting system for oral delivery of macromolecules. Science, 2019, 363, 611-615.	6.0	287
88	Simultaneous spatiotemporal tracking and oxygen sensing of transient implants in vivo using hot-spot MRI and machine learning. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4861-4870.	3.3	18
89	Biocompatible near-infrared quantum dots delivered to the skin by microneedle patches record vaccination. Science Translational Medicine, 2019, 11, .	5.8	95
90	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

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91	A once-a-month oral contraceptive. Science Translational Medicine, 2019, 11, .	5.8	33
92	Ingestible electronics for diagnostics and therapy. Nature Reviews Materials, 2019, 4, 83-98.	23.3	146
93	Inhaled Nanoformulated mRNA Polyplexes for Protein Production in Lung Epithelium. Advanced Materials, 2019, 31, e1805116.	11.1	212
94	Delivery technologies for cancer immunotherapy. Nature Reviews Drug Discovery, 2019, 18, 175-196.	21.5	1,562
95	3Dâ€Printed Gastric Resident Electronics. Advanced Materials Technologies, 2019, 4, 1800490.	3.0	72
96	Drug delivery across length scales. Journal of Drug Targeting, 2019, 27, 229-243.	2.1	20
97	Biocompatible Semiconductor Quantum Dots as Cancer Imaging Agents. Advanced Materials, 2018, 30, e1706356.	11.1	227
98	Convergence for Translation: Drugâ€Delivery Research in Multidisciplinary Teams. Angewandte Chemie - International Edition, 2018, 57, 4156-4163.	7.2	8
99	Translation durch Konvergenz: Drugâ€Deliveryâ€Forschung in multidisziplinÃren Teams. Angewandte Chemie, 2018, 130, 4226-4234.	1.6	2
100	Controlling the Growth of Staphylococcus epidermidis by Layer-By-Layer Encapsulation. ACS Applied Materials & Interfaces, 2018, 10, 16250-16259.	4.0	23
101	Nanoparticles for Immune Cytokine TRAIL-Based Cancer Therapy. ACS Nano, 2018, 12, 912-931.	7.3	107
102	Partial DNA-guided Cas9 enables genome editing with reduced off-target activity. Nature Chemical Biology, 2018, 14, 311-316.	3.9	186
103	Miniaturized neural system for chronic, local intracerebral drug delivery. Science Translational Medicine, 2018, 10, .	5.8	71
104	Development of an oral once-weekly drug delivery system for HIV antiretroviral therapy. Nature Communications, 2018, 9, 2.	5.8	180
105	Design and Synthesis of Waterborne Polyurethanes. Advanced Materials, 2018, 30, e1706237.	11.1	131
106	Surface tension-assisted additive manufacturing. Nature Communications, 2018, 9, 1184.	5.8	47
107	Immunogenicity of pulsatile-release PLGA microspheres for single-injection vaccination. Vaccine, 2018, 36, 3161-3168.	1.7	41
108	Towards a defined ECM and small molecule based monolayer culture system for the expansion of mouse and human intestinal stem cells. Biomaterials, 2018, 154, 60-73.	5.7	35

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109	Molecular Rotors for Universal Quantitation of Nanoscale Hydrophobic Interfaces in Microplate Format. Nano Letters, 2018, 18, 618-628.	4.5	3
110	Prediction of Broad-Spectrum Pathogen Attachment to Coating Materials for Biomedical Devices. ACS Applied Materials & Interfaces, 2018, 10, 139-149.	4.0	43
111	The development of bioresorbable composite polymeric implants with high mechanical strength. Nature Materials, 2018, 17, 96-103.	13.3	112
112	Nanomaterial Interactions with Human Neutrophils. ACS Biomaterials Science and Engineering, 2018, 4, 4255-4265.	2.6	47
113	Smart Biomaterials: Recent Advances and Future Directions. ACS Biomaterials Science and Engineering, 2018, 4, 3809-3817.	2.6	135
114	Biofilmâ€Inspired Encapsulation of Probiotics for the Treatment of Complex Infections. Advanced Materials, 2018, 30, e1803925.	11.1	93
115	Î²â€Aminoacrylate Synthetic Hydrogels: Easily Accessible and Operationally Simple Biomaterials Networks. Angewandte Chemie - International Edition, 2018, 57, 16026-16029.	7.2	37
116	Cellular-scale probes enable stable chronic subsecond monitoring of dopamine neurochemicals in a rodent model. Communications Biology, 2018, 1, 144.	2.0	52
117	Î²â€Aminoacrylate Synthetic Hydrogels: Easily Accessible and Operationally Simple Biomaterials Networks. Angewandte Chemie, 2018, 130, 16258-16261.	1.6	9
118	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
119	Stabilized single-injection inactivated polio vaccine elicits a strong neutralizing immune response. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5269-E5278.	3.3	44
120	An ingestible bacterial-electronic system to monitor gastrointestinal health. Science, 2018, 360, 915-918.	6.0	380
121	Ionizable Aminoâ€Polyesters Synthesized via Ring Opening Polymerization of Tertiary Aminoâ€Alcohols for Tissue Selective mRNA Delivery. Advanced Materials, 2018, 30, e1801151.	11.1	95
122	Endothelial siRNA delivery in nonhuman primates using ionizable lowâ€“molecular weight polymeric nanoparticles. Science Advances, 2018, 4, eaar8409.	4.7	81
123	Focal, remote-controlled, chronic chemical modulation of brain microstructures. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7254-7259.	3.3	18
124	Reduction of measurement noise in a continuous glucose monitor by coating the sensor with a zwitterionic polymer. Nature Biomedical Engineering, 2018, 2, 894-906.	11.6	150
125	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
126	Intracellular Delivery by Membrane Disruption: Mechanisms, Strategies, and Concepts. Chemical Reviews, 2018, 118, 7409-7531.	23.0	490

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127	Harnessing single-cell genomics to improve the physiological fidelity of organoid-derived cell types. BMC Biology, 2018, 16, 62.	1.7	35
128	Evaporative Cooling Hydrogel Packaging for Storing Biologics Outside of the Cold Chain. Advanced Healthcare Materials, 2018, 7, e1800220.	3.9	19
129	Alginate encapsulation as long-term immune protection of allogeneic pancreatic islet cells transplanted into the omental bursa of macaques. Nature Biomedical Engineering, 2018, 2, 810-821.	11.6	242
130	Scalable Gastric Resident Systems for Veterinary Application. Scientific Reports, 2018, 8, 11816.	1.6	8
131	Advances in Biomaterials for Drug Delivery. Advanced Materials, 2018, 30, e1705328.	11.1	565
132	Ultrasound-Mediated Delivery of RNA to Colonic Mucosa of LiveÂMice. Gastroenterology, 2017, 152, 1151-1160.	0.6	46
133	Subcellular probes for neurochemical recording from multiple brain sites. Lab on A Chip, 2017, 17, 1104-1115.	3.1	51
134	High-throughput nuclear delivery and rapid expression of DNA via mechanical and electrical cell-membrane disruption. Nature Biomedical Engineering, 2017, 1, .	11.6	158
135	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
136	Prolonged energy harvesting for ingestible devices. Nature Biomedical Engineering, 2017, 1, .	11.6	148
137	Correction to â€œLiving Biomaterialsâ€• Accounts of Chemical Research, 2017, 50, 1493-1493.	7.6	0
138	Wireless Power Transfer to Millimeter-Sized Gastrointestinal Electronics Validated in a Swine Model. Scientific Reports, 2017, 7, 46745.	1.6	45
139	Characterization of Mechanically Matched Hydrogel Coatings to Improve the Biocompatibility of Neural Implants. Scientific Reports, 2017, 7, 1952.	1.6	126
140	Investigating the Cellular Specificity in Tumors of a Surface-Converting Nanoparticle by Multimodal Imaging. Bioconjugate Chemistry, 2017, 28, 1413-1421.	1.8	13
141	Polymeric mechanical amplifiers of immune cytokine-mediated apoptosis. Nature Communications, 2017, 8, 14179.	5.8	26
142	Colony stimulating factor-1 receptor is a central component of the foreign body response to biomaterial implants in rodents and non-humanÂprimates. Nature Materials, 2017, 16, 671-680.	13.3	214
143	Living Biomaterials. Accounts of Chemical Research, 2017, 50, 508-513.	7.6	54
144	Poly(glycoamidoamine) brush nanomaterials for systemic siRNA delivery in vivo. Biomaterials Science, 2017, 5, 38-40.	2.6	17

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145	Mechanistic understanding of in vivo protein corona formation on polymeric nanoparticles and impact on pharmacokinetics. Nature Communications, 2017, 8, 777.	5.8	507
146	Engineering and physical sciences in oncology: challenges and opportunities. Nature Reviews Cancer, 2017, 17, 659-675.	12.8	204
147	Fabrication of fillable microparticles and other complex 3D microstructures. Science, 2017, 357, 1138-1142.	6.0	163
148	Glucose-responsive insulin by molecular and physical design. Nature Chemistry, 2017, 9, 937-944.	6.6	106
149	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
150	Evolution of macromolecular complexity in drug delivery systems. Nature Reviews Chemistry, 2017, 1, .	13.8	233
151	Applications of ethylene vinyl acetate copolymers (EVA) in drug delivery systems. Journal of Controlled Release, 2017, 262, 284-295.	4.8	134
152	Oral delivery of biologics using drug-device combinations. Current Opinion in Pharmacology, 2017, 36, 8-13.	1.7	41
153	Triggerable tough hydrogels for gastric resident dosage forms. Nature Communications, 2017, 8, 124.	5.8	106
154	Long-term dopamine neurochemical monitoring in primates. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13260-13265.	3.3	80
155	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
156	Bioresponsive materials. Nature Reviews Materials, 2017, 2, .	23.3	1,117
157	Lipid Nanoparticle Assisted mRNA Delivery for Potent Cancer Immunotherapy. Nano Letters, 2017, 17, 1326-1335.	4.5	506
158	Cytosolic delivery of siRNA by ultra-high affinity dsRNA binding proteins. Nucleic Acids Research, 2017, 45, 7602-7614.	6.5	11
159	Structure-guided chemical modification of guide RNA enables potent non-viral in vivo genome editing. Nature Biotechnology, 2017, 35, 1179-1187.	9.4	375
160	Ly6Clo monocytes drive immunosuppression and confer resistance to anti-VEGFR2 cancer therapy. Journal of Clinical Investigation, 2017, 127, 3039-3051.	3.9	124
161	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
162	Thermostabilization of inactivated polio vaccine in PLGA-based microspheres for pulsatile release. Journal of Controlled Release, 2016, 233, 101-113.	4.8	48

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163	mRNA vaccine delivery using lipid nanoparticles. Therapeutic Delivery, 2016, 7, 319-334.	1.2	414
164	Layerâ€byâ€Layer Encapsulation of Probiotics for Delivery to the Microbiome. Advanced Materials, 2016, 28, 9486-9490.	11.1	239
165	A Sizeâ€Selective Intracellular Delivery Platform. Small, 2016, 12, 5873-5881.	5.2	24
166	In vitro and ex vivo strategies for intracellular delivery. Nature, 2016, 538, 183-192.	13.7	662
167	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
168	A decade of progress in tissue engineering. Nature Protocols, 2016, 11, 1775-1781.	5.5	570
169	Oral, ultraâ€“long-lasting drug delivery: Application toward malaria elimination goals. Science Translational Medicine, 2016, 8, 365ra157.	5.8	181
170	Past, Present, and Future Drug Delivery Systems for Antiretrovirals. Journal of Pharmaceutical Sciences, 2016, 105, 3471-3482.	1.6	23
171	RNAi targeting multiple cell adhesion molecules reduces immune cell recruitment and vascular inflammation after myocardial infarction. Science Translational Medicine, 2016, 8, 342ra80.	5.8	169
172	A Janus Mucoadhesive and Omniphobic Device for Gastrointestinal Retention. Advanced Healthcare Materials, 2016, 5, 1141-1146.	3.9	27
173	First In Vivo Testing of Compounds Targeting Group 3 Medulloblastomas Using an Implantable Microdevice as a New Paradigm for Drug Development. Journal of Biomedical Nanotechnology, 2016, 12, 1297-1302.	0.5	36
174	Bioinspired Alkenyl Amino Alcohol Ionizable Lipid Materials for Highly Potent In Vivo mRNA Delivery. Advanced Materials, 2016, 28, 2939-2943.	11.1	172
175	Combinatorial hydrogel library enables identification of materials that mitigate the foreign body response in primates. Nature Biotechnology, 2016, 34, 345-352.	9.4	417
176	Long-term glycemic control using polymer-encapsulated human stem cellâ€“derived beta cells in immune-competent mice. Nature Medicine, 2016, 22, 306-311.	15.2	564
177	Supramolecular biomaterials. Nature Materials, 2016, 15, 13-26.	13.3	1,226
178	Injectable Selfâ€Healing Glucoseâ€Responsive Hydrogels with pHâ€Regulated Mechanical Properties. Advanced Materials, 2016, 28, 86-91.	11.1	466
179	Live-cell protein labelling with nanometre precision by cell squeezing. Nature Communications, 2016, 7, 10372.	5.8	94
180	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

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181	Emerging Frontiers in Drug Delivery. Journal of the American Chemical Society, 2016, 138, 704-717.	6.6	776
182	Chemical materials and their regulation of the movement of molecules. Quarterly Reviews of Biophysics, 2015, 48, 424-428.	2.4	5
183	Medical Adhesives: Bioinspired Nanoparticulate Medical Glues for Minimally Invasive Tissue Repair (Adv. Healthcare Mater. 16/2015). Advanced Healthcare Materials, 2015, 4, 2318-2318.	3.9	0
184	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
185	Bioinspired Nanoparticulate Medical Glues for Minimally Invasive Tissue Repair. Advanced Healthcare Materials, 2015, 4, 2587-2596.	3.9	36
186	Dendrimeric siRNA for Efficient Gene Silencing. Angewandte Chemie - International Edition, 2015, 54, 6740-6744.	7.2	59
187	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
188	Ex Vivo Cytosolic Delivery of Functional Macromolecules to Immune Cells. PLoS ONE, 2015, 10, e0118803.	1.1	47
189	Microfluidic squeezing for intracellular antigen loading in polyclonal B-cells as cellular vaccines. Scientific Reports, 2015, 5, 10276.	1.6	88
190	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
191	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
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