

Robert Samuel Langer Jr

List of Publications by Year in descending order

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367
papers

117,711
citations

299

139
h-index

131

335
g-index

377
all docs

377
docs citations

377
times ranked

92320
citing authors

#	ARTICLE	IF	CITATIONS
1	Oral delivery of systemic monoclonal antibodies, peptides and small molecules using gastric auto-injectors. <i>Nature Biotechnology</i> , 2022, 40, 103-109.	17.5	64
2	Microfluidic Squeezing Enables MHC Class I Antigen Presentation by Diverse Immune Cells to Elicit CD8+ T Cell Responses with Antitumor Activity. <i>Journal of Immunology</i> , 2022, 208, 929-940.	0.8	11
3	Oral mRNA delivery using capsule-mediated gastrointestinal tissue injections. <i>Matter</i> , 2022, 5, 975-987.	10.0	48
4	Bioplastics for a circular economy. <i>Nature Reviews Materials</i> , 2022, 7, 117-137.	48.7	550
5	Dynamic omnidirectional adhesive microneedle system for oral macromolecular drug delivery. <i>Science Advances</i> , 2022, 8, eabk1792.	10.3	54
6	Role of drug delivery technologies in the success of COVID-19 vaccines: a perspective. <i>Drug Delivery and Translational Research</i> , 2022, 12, 2581-2588.	5.8	17
7	Engineered nanoparticles enable deep proteomics studies at scale by leveraging tunable nano-bio interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2106053119.	7.1	29
8	Screening for modulators of the cellular composition of gut epithelia via organoid models of intestinal stem cell differentiation. <i>Nature Biomedical Engineering</i> , 2022, 6, 476-494.	22.5	24
9	Development of oil-based gels as versatile drug delivery systems for pediatric applications. <i>Science Advances</i> , 2022, 8, .	10.3	19
10	Micromolding of Thermoplastic Polymers for Direct Fabrication of Discrete, Multilayered Microparticles. <i>Small Methods</i> , 2022, 6, .	8.6	6
11	Delivery of therapeutic carbon monoxide by gas-entrapping materials. <i>Science Translational Medicine</i> , 2022, 14, .	12.4	21
12	Experimental and computational understanding of pulsatile release mechanism from biodegradable core-shell microparticles. <i>Science Advances</i> , 2022, 8, .	10.3	16
13	Microgel encapsulated nanoparticles for glucose-responsive insulin delivery. <i>Biomaterials</i> , 2021, 267, 120458.	11.4	32
14	Analysis of the Human Plasma Proteome Using Multi-Nanoparticle Protein Corona for Detection of Alzheimer's Disease. <i>Advanced Healthcare Materials</i> , 2021, 10, e2000948.	7.6	19
15	Engineering precision nanoparticles for drug delivery. <i>Nature Reviews Drug Discovery</i> , 2021, 20, 101-124.	46.4	3,154
16	Inverse Pneumatic Artificial Muscles for Application in Low-Cost Ventilators. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000200.	6.1	6
17	Microtechnologies and Nanotechnologies in Drug Delivery. , 2021, , .		0
18	A microneedle platform for buccal macromolecule delivery. <i>Science Advances</i> , 2021, 7, .	10.3	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, .	7.1	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.	1.3	34
21	Nanotechnology approaches for global infectious diseases. Nature Nanotechnology, 2021, 16, 369-384.	31.5	232
22	Computationally guided high-throughput design of self-assembling drug nanoparticles. Nature Nanotechnology, 2021, 16, 725-733.	31.5	64
23	Engineered drug delivery devices to address Global Health challenges. Journal of Controlled Release, 2021, 331, 503-514.	9.9	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.	22.5	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.	7.1	0
26	Facts and Figures on Materials Science and Nanotechnology Progress and Investment. ACS Nano, 2021, 15, 15940-15952.	14.6	48
27	Stimuli-responsive transdermal microneedle patches. Materials Today, 2021, 47, 206-222.	14.2	129
28	Wireless on-demand drug delivery. Nature Electronics, 2021, 4, 464-477.	26.0	91
29	Lipid nanoparticles for mRNA delivery. Nature Reviews Materials, 2021, 6, 1078-1094.	48.7	1,256
30	Additive manufacturing in drug delivery: Innovative drug product design and opportunities for industrial application. Advanced Drug Delivery Reviews, 2021, 178, 113990.	13.7	28
31	A technology evaluation of CVT-301 (Inbrija): an inhalable therapy for treatment of Parkinson's disease. Expert Opinion on Drug Delivery, 2021, 18, 1559-1569.	5.0	7
32	Nucleic acid delivery for therapeutic applications. Advanced Drug Delivery Reviews, 2021, 178, 113834.	13.7	122
33	A therapeutic convection-enhanced macroencapsulation device for enhancing β cell viability and insulin secretion. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	29
34	Engineered insulin-polycation complexes for glucose-responsive delivery with high insulin loading. Journal of Controlled Release, 2021, 338, 71-79.	9.9	14
35	BBB pathophysiology-independent delivery of siRNA in traumatic brain injury. Science Advances, 2021, 7, .	10.3	67
36	Implantable system for chronotherapy. Science Advances, 2021, 7, eabj4624.	10.3	9

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37	Controlled delivery of gold nanoparticle-coupled miRNA therapeutics via an injectable self-healing hydrogel. <i>Nanoscale</i> , 2021, 13, 20451-20461.	5.6	15
38	Biohybrid Design Gets Personal: New Materials for Patient-Specific Therapy. <i>Advanced Materials</i> , 2020, 32, e1901969.	21.0	21
39	Outlooks on Three-Dimensional Printing for Ocular Biomaterials Research. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2020, 36, 7-17.	1.4	16
40	Chiral Supraparticles for Controllable Nanomedicine. <i>Advanced Materials</i> , 2020, 32, e1903878.	21.0	118
41	From Molecule to Patient: A Biotech Perspective. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 107, 65-67.	4.7	3
42	Glucose-Responsive Nanoparticles for Rapid and Extended Self-Regulated Insulin Delivery. <i>ACS Nano</i> , 2020, 14, 488-497.	14.6	113
43	Platform for micro-invasive membrane-free biochemical sampling of brain interstitial fluid. <i>Science Advances</i> , 2020, 6, .	10.3	11
44	Dopamine and beta-band oscillations differentially link to striatal value and motor control. <i>Science Advances</i> , 2020, 6, .	10.3	23
45	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.	1.1	9
46	A materials-science perspective on tackling COVID-19. <i>Nature Reviews Materials</i> , 2020, 5, 847-860.	48.7	228
47	Nanoparticle-encapsulated siRNAs for gene silencing in the haematopoietic stem-cell niche. <i>Nature Biomedical Engineering</i> , 2020, 4, 1076-1089.	22.5	80
48	Delivery of Tissue-Targeted Scalpels: Opportunities and Challenges for In Vivo CRISPR/Cas-Based Genome Editing. <i>ACS Nano</i> , 2020, 14, 9243-9262.	14.6	69
49	Rapid, deep and precise profiling of the plasma proteome with multi-nanoparticle protein corona. <i>Nature Communications</i> , 2020, 11, 3662.	12.8	175
50	Modeling, design, and machine learning-based framework for optimal injectability of microparticle-based drug formulations. <i>Science Advances</i> , 2020, 6, eabb6594.	10.3	42
51	Computationally Guided Intracerebral Drug Delivery via Chronically Implanted Microdevices. <i>Cell Reports</i> , 2020, 31, 107734.	6.4	5
52	Trends in Therapeutic Conjugates: Bench to Clinic. <i>Bioconjugate Chemistry</i> , 2020, 31, 462-473.	3.6	21
53	Advances in oligonucleotide drug delivery. <i>Nature Reviews Drug Discovery</i> , 2020, 19, 673-694.	46.4	1,036
54	Engineered PLGA microparticles for long-term, pulsatile release of STING agonist for cancer immunotherapy. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	117

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55	Chemical Tuning of Fibers Drawn from Extensible Hyaluronic Acid Networks. <i>Journal of the American Chemical Society</i> , 2020, 142, 19715-19721.	13.7	24
56	Ingestible transiently anchoring electronics for microstimulation and conductive signaling. <i>Science Advances</i> , 2020, 6, eaaz0127.	10.3	35
57	Development of a long-acting direct-acting antiviral system for hepatitis C virus treatment in swine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11987-11994.	7.1	15
58	A rapidly deployable individualized system for augmenting ventilator capacity. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	23
59	Polymer Nanocomposite Microactuators for On-Demand Chemical Release via High-Frequency Magnetic Field Excitation. <i>Nano Letters</i> , 2020, 20, 4816-4822.	9.1	12
60	Parallel evolution of polymer chemistry and immunology: Integrating mechanistic biology with materials design. <i>Advanced Drug Delivery Reviews</i> , 2020, 156, 65-79.	13.7	15
61	Machine Learning Uncovers Food- and Excipient-Drug Interactions. <i>Cell Reports</i> , 2020, 30, 3710-3716.e4.	6.4	37
62	A retrievable implant for the long-term encapsulation and survival of therapeutic xenogeneic cells. <i>Nature Biomedical Engineering</i> , 2020, 4, 814-826.	22.5	90
63	Magnetic Retrieval of Encapsulated Beta Cell Transplants from Diabetic Mice Using Dual-Function MRI Visible and Retrievable Microcapsules. <i>Advanced Materials</i> , 2020, 32, e1904502.	21.0	15
64	Simultaneous recording and marking of brain microstructures. <i>Journal of Neural Engineering</i> , 2020, 17, 044001.	3.5	1
65	Light-degradable hydrogels as dynamic triggers for gastrointestinal applications. <i>Science Advances</i> , 2020, 6, eaay0065.	10.3	71
66	A Nanoprimer To Improve the Systemic Delivery of siRNA and mRNA. <i>Nano Letters</i> , 2020, 20, 4264-4269.	9.1	51
67	Robotically handled whole-tissue culture system for the screening of oral drug formulations. <i>Nature Biomedical Engineering</i> , 2020, 4, 544-559.	22.5	35
68	Clinical Opportunities for Continuous Biosensing and Closed-Loop Therapies. <i>Trends in Chemistry</i> , 2020, 2, 319-340.	8.5	39
69	Actuation of untethered pneumatic artificial muscles and soft robots using magnetically induced liquid-to-gas phase transitions. <i>Science Robotics</i> , 2020, 5, .	17.6	101
70	Glucose-responsive insulin patch for the regulation of blood glucose in mice and minipigs. <i>Nature Biomedical Engineering</i> , 2020, 4, 499-506.	22.5	353
71	Nanofibrillar Patches of Commensal Skin Bacteria. <i>Biomacromolecules</i> , 2019, 20, 102-108.	5.4	10
72	Injectable Polymer-Nanoparticle Hydrogels for Local Immune Cell Recruitment. <i>Biomacromolecules</i> , 2019, 20, 4430-4436.	5.4	58

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73	A heat-stable microparticle platform for oral micronutrient delivery. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	20
74	A New Approach for Microfabrication of Printed Circuit Boards with Ultrafine Traces. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35376-35381.	8.0	5
75	Can Fish and Cell Phones Teach Us about Our Health?. <i>ACS Sensors</i> , 2019, 4, 2566-2570.	7.8	2
76	A luminal unfolding microneedle injector for oral delivery of macromolecules. <i>Nature Medicine</i> , 2019, 25, 1512-1518.	30.7	167
77	Blocking CXCR4 alleviates desmoplasia, increases T-lymphocyte infiltration, and improves immunotherapy in metastatic breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4558-4566.	7.1	274
78	Long-term implant fibrosis prevention in rodents and non-human primates using crystallized drug formulations. <i>Nature Materials</i> , 2019, 18, 892-904.	27.5	114
79	Steerable Microinvasive Probes for Localized Drug Delivery to Deep Tissue. <i>Small</i> , 2019, 15, e1901459.	10.0	17
80	Controlling the movement of molecules. <i>Quarterly Reviews of Biophysics</i> , 2019, 52, .	5.7	8
81	Reprogramming the microenvironment with tumor-selective angiotensin blockers enhances cancer immunotherapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10674-10680.	7.1	150
82	Temperature-responsive biometamaterials for gastrointestinal applications. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	51
83	Ultra-rapid drug delivery in the oral cavity using ultrasound. <i>Journal of Controlled Release</i> , 2019, 304, 1-6.	9.9	12
84	A gastric resident drug delivery system for prolonged gram-level dosing of tuberculosis treatment. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	38
85	Polymers for extended-release administration. <i>Biomedical Microdevices</i> , 2019, 21, 45.	2.8	21
86	Making the case: developing innovative adherence solutions for the treatment of tuberculosis. <i>BMJ Global Health</i> , 2019, 4, e001323.	4.7	10
87	An ingestible self-orienting system for oral delivery of macromolecules. <i>Science</i> , 2019, 363, 611-615.	12.6	287
88	Simultaneous spatiotemporal tracking and oxygen sensing of transient implants in vivo using hot-spot MRI and machine learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4861-4870.	7.1	18
89	Biocompatible near-infrared quantum dots delivered to the skin by microneedle patches record vaccination. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	95
90	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.	17.5	398

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91	A once-a-month oral contraceptive. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	33
92	Ingestible electronics for diagnostics and therapy. <i>Nature Reviews Materials</i> , 2019, 4, 83-98.	48.7	146
93	Inhaled Nanoformulated mRNA Polyplexes for Protein Production in Lung Epithelium. <i>Advanced Materials</i> , 2019, 31, e1805116.	21.0	212
94	Delivery technologies for cancer immunotherapy. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 175-196.	46.4	1,562
95	3D-Printed Gastric Resident Electronics. <i>Advanced Materials Technologies</i> , 2019, 4, 1800490.	5.8	72
96	Drug delivery across length scales. <i>Journal of Drug Targeting</i> , 2019, 27, 229-243.	4.4	20
97	Biocompatible Semiconductor Quantum Dots as Cancer Imaging Agents. <i>Advanced Materials</i> , 2018, 30, e1706356.	21.0	227
98	Convergence for Translation: Drug Delivery Research in Multidisciplinary Teams. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4156-4163.	13.8	8
99	Translation durch Konvergenz: Drug Delivery-Forschung in multidisziplinären Teams. <i>Angewandte Chemie</i> , 2018, 130, 4226-4234.	2.0	2
100	Controlling the Growth of <i>Staphylococcus epidermidis</i> by Layer-By-Layer Encapsulation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16250-16259.	8.0	23
101	Nanoparticles for Immune Cytokine TRAIL-Based Cancer Therapy. <i>ACS Nano</i> , 2018, 12, 912-931.	14.6	107
102	Partial DNA-guided Cas9 enables genome editing with reduced off-target activity. <i>Nature Chemical Biology</i> , 2018, 14, 311-316.	8.0	186
103	Miniaturized neural system for chronic, local intracerebral drug delivery. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	71
104	Development of an oral once-weekly drug delivery system for HIV antiretroviral therapy. <i>Nature Communications</i> , 2018, 9, 2.	12.8	180
105	Design and Synthesis of Waterborne Polyurethanes. <i>Advanced Materials</i> , 2018, 30, e1706237.	21.0	131
106	Surface tension-assisted additive manufacturing. <i>Nature Communications</i> , 2018, 9, 1184.	12.8	47
107	Immunogenicity of pulsatile-release PLGA microspheres for single-injection vaccination. <i>Vaccine</i> , 2018, 36, 3161-3168.	3.8	41
108	Towards a defined ECM and small molecule based monolayer culture system for the expansion of mouse and human intestinal stem cells. <i>Biomaterials</i> , 2018, 154, 60-73.	11.4	35

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109	Molecular Rotors for Universal Quantitation of Nanoscale Hydrophobic Interfaces in Microplate Format. <i>Nano Letters</i> , 2018, 18, 618-628.	9.1	3
110	Prediction of Broad-Spectrum Pathogen Attachment to Coating Materials for Biomedical Devices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 139-149.	8.0	43
111	The development of bioresorbable composite polymeric implants with high mechanical strength. <i>Nature Materials</i> , 2018, 17, 96-103.	27.5	112
112	Nanomaterial Interactions with Human Neutrophils. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 4255-4265.	5.2	47
113	Smart Biomaterials: Recent Advances and Future Directions. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3809-3817.	5.2	135
114	Biofilm-Inspired Encapsulation of Probiotics for the Treatment of Complex Infections. <i>Advanced Materials</i> , 2018, 30, e1803925.	21.0	93
115	Î²-Aminoacrylate Synthetic Hydrogels: Easily Accessible and Operationally Simple Biomaterials Networks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16026-16029.	13.8	37
116	Cellular-scale probes enable stable chronic subsecond monitoring of dopamine neurochemicals in a rodent model. <i>Communications Biology</i> , 2018, 1, 144.	4.4	52
117	Î²-Aminoacrylate Synthetic Hydrogels: Easily Accessible and Operationally Simple Biomaterials Networks. <i>Angewandte Chemie</i> , 2018, 130, 16258-16261.	2.0	9
118	Restoration of tumour-growth suppression in vivo via systemic nanoparticle-mediated delivery of PTEN mRNA. <i>Nature Biomedical Engineering</i> , 2018, 2, 850-864.	22.5	214
119	Stabilized single-injection inactivated polio vaccine elicits a strong neutralizing immune response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5269-E5278.	7.1	44
120	An ingestible bacterial-electronic system to monitor gastrointestinal health. <i>Science</i> , 2018, 360, 915-918.	12.6	380
121	Ionizable Amino-Polyesters Synthesized via Ring Opening Polymerization of Tertiary Amino-Alcohols for Tissue Selective mRNA Delivery. <i>Advanced Materials</i> , 2018, 30, e1801151.	21.0	95
122	Endothelial siRNA delivery in nonhuman primates using ionizable low-molecular weight polymeric nanoparticles. <i>Science Advances</i> , 2018, 4, eaar8409.	10.3	81
123	Focal, remote-controlled, chronic chemical modulation of brain microstructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7254-7259.	7.1	18
124	Reduction of measurement noise in a continuous glucose monitor by coating the sensor with a zwitterionic polymer. <i>Nature Biomedical Engineering</i> , 2018, 2, 894-906.	22.5	150
125	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.	7.1	40
126	Intracellular Delivery by Membrane Disruption: Mechanisms, Strategies, and Concepts. <i>Chemical Reviews</i> , 2018, 118, 7409-7531.	47.7	490

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127	Harnessing single-cell genomics to improve the physiological fidelity of organoid-derived cell types. <i>BMC Biology</i> , 2018, 16, 62.	3.8	35
128	Evaporative Cooling Hydrogel Packaging for Storing Biologics Outside of the Cold Chain. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800220.	7.6	19
129	Alginate encapsulation as long-term immune protection of allogeneic pancreatic islet cells transplanted into the omental bursa of macaques. <i>Nature Biomedical Engineering</i> , 2018, 2, 810-821.	22.5	242
130	Scalable Gastric Resident Systems for Veterinary Application. <i>Scientific Reports</i> , 2018, 8, 11816.	3.3	8
131	Advances in Biomaterials for Drug Delivery. <i>Advanced Materials</i> , 2018, 30, e1705328.	21.0	565
132	Ultrasound-Mediated Delivery of RNA to Colonic Mucosa of Live Mice. <i>Gastroenterology</i> , 2017, 152, 1151-1160.	1.3	46
133	Subcellular probes for neurochemical recording from multiple brain sites. <i>Lab on A Chip</i> , 2017, 17, 1104-1115.	6.0	51
134	High-throughput nuclear delivery and rapid expression of DNA via mechanical and electrical cell-membrane disruption. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	158
135	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.	7.1	185
136	Prolonged energy harvesting for ingestible devices. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	148
137	Correction to "Living Biomaterials". <i>Accounts of Chemical Research</i> , 2017, 50, 1493-1493.	15.6	0
138	Wireless Power Transfer to Millimeter-Sized Gastrointestinal Electronics Validated in a Swine Model. <i>Scientific Reports</i> , 2017, 7, 46745.	3.3	45
139	Characterization of Mechanically Matched Hydrogel Coatings to Improve the Biocompatibility of Neural Implants. <i>Scientific Reports</i> , 2017, 7, 1952.	3.3	126
140	Investigating the Cellular Specificity in Tumors of a Surface-Converting Nanoparticle by Multimodal Imaging. <i>Bioconjugate Chemistry</i> , 2017, 28, 1413-1421.	3.6	13
141	Polymeric mechanical amplifiers of immune cytokine-mediated apoptosis. <i>Nature Communications</i> , 2017, 8, 14179.	12.8	26
142	Colony stimulating factor-1 receptor is a central component of the foreign body response to biomaterial implants in rodents and non-human primates. <i>Nature Materials</i> , 2017, 16, 671-680.	27.5	214
143	Living Biomaterials. <i>Accounts of Chemical Research</i> , 2017, 50, 508-513.	15.6	54
144	Poly(glycoamidoamine) brush nanomaterials for systemic siRNA delivery in vivo. <i>Biomaterials Science</i> , 2017, 5, 38-40.	5.4	17

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145	Mechanistic understanding of in vivo protein corona formation on polymeric nanoparticles and impact on pharmacokinetics. <i>Nature Communications</i> , 2017, 8, 777.	12.8	507
146	Engineering and physical sciences in oncology: challenges and opportunities. <i>Nature Reviews Cancer</i> , 2017, 17, 659-675.	28.4	204
147	Fabrication of fillable microparticles and other complex 3D microstructures. <i>Science</i> , 2017, 357, 1138-1142.	12.6	163
148	Glucose-responsive insulin by molecular and physical design. <i>Nature Chemistry</i> , 2017, 9, 937-944.	13.6	106
149	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.	21.0	174
150	Evolution of macromolecular complexity in drug delivery systems. <i>Nature Reviews Chemistry</i> , 2017, 1, .	30.2	233
151	Applications of ethylene vinyl acetate copolymers (EVA) in drug delivery systems. <i>Journal of Controlled Release</i> , 2017, 262, 284-295.	9.9	134
152	Oral delivery of biologics using drug-device combinations. <i>Current Opinion in Pharmacology</i> , 2017, 36, 8-13.	3.5	41
153	Triggerable tough hydrogels for gastric resident dosage forms. <i>Nature Communications</i> , 2017, 8, 124.	12.8	106
154	Long-term dopamine neurochemical monitoring in primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13260-13265.	7.1	80
155	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.	7.1	102
156	Bioresponsive materials. <i>Nature Reviews Materials</i> , 2017, 2, .	48.7	1,117
157	Lipid Nanoparticle Assisted mRNA Delivery for Potent Cancer Immunotherapy. <i>Nano Letters</i> , 2017, 17, 1326-1335.	9.1	506
158	Cytosolic delivery of siRNA by ultra-high affinity dsRNA binding proteins. <i>Nucleic Acids Research</i> , 2017, 45, 7602-7614.	14.5	11
159	Structure-guided chemical modification of guide RNA enables potent non-viral in vivo genome editing. <i>Nature Biotechnology</i> , 2017, 35, 1179-1187.	17.5	375
160	Ly6Clo monocytes drive immunosuppression and confer resistance to anti-VEGFR2 cancer therapy. <i>Journal of Clinical Investigation</i> , 2017, 127, 3039-3051.	8.2	124
161	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.	7.1	320
162	Thermostabilization of inactivated polio vaccine in PLGA-based microspheres for pulsatile release. <i>Journal of Controlled Release</i> , 2016, 233, 101-113.	9.9	48

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163	mRNA vaccine delivery using lipid nanoparticles. <i>Therapeutic Delivery</i> , 2016, 7, 319-334.	2.2	414
164	Layer-by-Layer Encapsulation of Probiotics for Delivery to the Microbiome. <i>Advanced Materials</i> , 2016, 28, 9486-9490.	21.0	239
165	A Size-Selective Intracellular Delivery Platform. <i>Small</i> , 2016, 12, 5873-5881.	10.0	24
166	In vitro and ex vivo strategies for intracellular delivery. <i>Nature</i> , 2016, 538, 183-192.	27.8	662
167	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.	7.1	286
168	A decade of progress in tissue engineering. <i>Nature Protocols</i> , 2016, 11, 1775-1781.	12.0	570
169	Oral, ultra-long-lasting drug delivery: Application toward malaria elimination goals. <i>Science Translational Medicine</i> , 2016, 8, 365ra157.	12.4	181
170	Past, Present, and Future Drug Delivery Systems for Antiretrovirals. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 3471-3482.	3.3	23
171	RNAi targeting multiple cell adhesion molecules reduces immune cell recruitment and vascular inflammation after myocardial infarction. <i>Science Translational Medicine</i> , 2016, 8, 342ra80.	12.4	169
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