Daniel G Anderson

List of Publications by Year
in descending order

180 papers	41,000 citations	3449 93 h-index	4305 179 g-index
182 all docs	182 docs citations	182 times ranked	47577 citing authors

#	Article	IF	Citations
1	Opportunities and Challenges in mRNA Therapeutics. Accounts of Chemical Research, 2022, 55, 1-1.	7.6	11
2	Nanoscale delivery platforms for RNA therapeutics: Challenges and the current state of the art. Med, 2022, 3, 167-187.	2.2	7
3	Circular RNA migration in agarose gel electrophoresis. Molecular Cell, 2022, 82, 1768-1777.e3.	4.5	13
4	The clinical progress of mRNA vaccines and immunotherapies. Nature Biotechnology, 2022, 40, 840-854.	9.4	248
5	Microgel encapsulated nanoparticles for glucose-responsive insulin delivery. Biomaterials, 2021, 267, 120458.	5.7	32
6	Identification of a long non-coding RNA regulator of liver carcinoma cell survival. Cell Death and Disease, 2021, 12, 178.	2.7	4
7	The NIH Somatic Cell Genome Editing program. Nature, 2021, 592, 195-204.	13.7	84
8	Systems Approach to Discovery of Therapeutic Targets for Vein Graft Disease: PPARÎ± Pivotally Regulates Metabolism, Activation, and Heterogeneity of Macrophages and Lesion Development. Circulation, 2021, 143, 2454-2470.	1.6	21
9	Frataxin deficiency promotes endothelial senescence in pulmonary hypertension. Journal of Clinical Investigation, 2021, 131, .	3.9	38
10	Systemic delivery of mRNA and DNA to the lung using polymer-lipid nanoparticles. Biomaterials, 2021, 275, 120966.	5.7	54
11	mRNA therapeutics: beyond vaccine applications. Trends in Molecular Medicine, 2021, 27, 923-924.	3.5	18
12	Engineered insulin-polycation complexes for glucose-responsive delivery with high insulin loading. Journal of Controlled Release, 2021, 338, 71-79.	4.8	14
13	Selective targeting of MYC mRNA by stabilized antisense oligonucleotides. Oncogene, 2021, 40, 6527-6539.	2.6	5
14	Adenine base editing in an adult mouse model of tyrosinaemia. Nature Biomedical Engineering, 2020, 4, 125-130.	11.6	136
15	Biomaterials for Personalized Cell Therapy. Advanced Materials, 2020, 32, e1902005.	11.1	76
16	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
17	Glucose-Responsive Nanoparticles for Rapid and Extended Self-Regulated Insulin Delivery. ACS Nano, 2020, 14, 488-497.	7.3	113
18	Nanoparticle-encapsulated siRNAs for gene silencing in the haematopoietic stem-cell niche. Nature Biomedical Engineering, 2020, 4, 1076-1089.	11.6	80

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19	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
20	Engineered PLGA microparticles for long-term, pulsatile release of STING agonist for cancer immunotherapy. Science Translational Medicine, 2020, 12, .	5.8	117
21	Chemical Tuning of Fibers Drawn from Extensible Hyaluronic Acid Networks. Journal of the American Chemical Society, 2020, 142, 19715-19721.	6.6	24
22	Synergistic lipid compositions for albumin receptor mediated delivery of mRNA to the liver. Nature Communications, 2020, 11, 2424.	5.8	167
23	S100A9-RAGE Axis Accelerates Formation of Macrophage-Mediated Extracellular Vesicle Microcalcification in Diabetes Mellitus. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1838-1853.	1.1	52
24	A retrievable implant for the long-term encapsulation and survival of therapeutic xenogeneic cells. Nature Biomedical Engineering, 2020, 4, 814-826.	11.6	90
25	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
26	Downregulation of the Arg/N-degron Pathway Sensitizes Cancer Cells to Chemotherapy InÂVivo. Molecular Therapy, 2020, 28, 1092-1104.	3.7	19
27	Chemical modifications of adenine base editor mRNA and guide RNA expand its application scope. Nature Communications, 2020, 11, 1979.	5.8	66
28	Endothelial TGF-Î² signalling drives vascular inflammation and atherosclerosis. Nature Metabolism, 2019, 1, 912-926.	5.1	172
29	CRISPRâ€“Cas: a tool for cancer research and therapeutics. Nature Reviews Clinical Oncology, 2019, 16, 281-295.	12.5	127
30	mRNA Delivery for Therapeutic Anti-HER2 Antibody Expression InÂVivo. Molecular Therapy, 2019, 27, 1415-1423.	3.7	125
31	Strategies, design, and chemistry in siRNA delivery systems. Advanced Drug Delivery Reviews, 2019, 144, 133-147.	6.6	330
32	RNA Circularization Diminishes Immunogenicity and Can Extend Translation Duration InÂVivo. Molecular Cell, 2019, 74, 508-520.e4.	4.5	221
33	Delivering the Messenger: Advances in Technologies for Therapeutic mRNA Delivery. Molecular Therapy, 2019, 27, 710-728.	3.7	685
34	Polyimide Electrode-Based Electrical Stimulation Impedes Early Stage Muscle Graft Regeneration. Frontiers in Neurology, 2019, 10, 252.	1.1	6
35	BOLA (BolA Family Member 3) Deficiency Controls Endothelial Metabolism and Glycine Homeostasis in Pulmonary Hypertension. Circulation, 2019, 139, 2238-2255.	1.6	54
36	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

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37	Gene Delivery: Inhaled Nanoformulated mRNA Polyplexes for Protein Production in Lung Epithelium (Adv. Mater. 8/2019). Advanced Materials, 2019, 31, 1970053.	11.1	5
38	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
39	Inhaled Nanoformulated mRNA Polyplexes for Protein Production in Lung Epithelium. Advanced Materials, 2019, 31, e1805116.	11.1	212
40	Uremic Toxin Indoxyl Sulfate Promotes Proinflammatory Macrophage Activation Via the Interplay of OATP2B1 and Dll4-Notch Signaling. Circulation, 2019, 139, 78-96.	1.6	126
41	Partial DNA-guided Cas9 enables genome editing with reduced off-target activity. Nature Chemical Biology, 2018, 14, 311-316.	3.9	186
42	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
43	Engineered 3D-printed artificial axons. Scientific Reports, 2018, 8, 478.	1.6	67
44	Prediction of Broad-Spectrum Pathogen Attachment to Coating Materials for Biomedical Devices. ACS Applied Materials & Interfaces, 2018, 10, 139-149.	4.0	43
45	Optimization of a Degradable Polymerâ€“Lipid Nanoparticle for Potent Systemic Delivery of mRNA to the Lung Endothelium and Immune Cells. Nano Letters, 2018, 18, 6449-6454.	4.5	141
46	MicroRNA regulation of the MRN complex impacts DNA damage, cellular senescence, and angiogenic signaling. Cell Death and Disease, 2018, 9, 632.	2.7	27
47	Report of the Key Opinion Leaders Meeting on Stem Cell-derived Beta Cells. Transplantation, 2018, 102, 1223-1229.	0.5	72
48	Poly(Î²â€amino ester)â€coâ€poly(caprolactone) Terpolymers as Nonviral Vectors for mRNA Delivery In Vitro and In Vivo. Advanced Healthcare Materials, 2018, 7, e1800249.	3.9	58
49	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
50	Endothelial siRNA delivery in nonhuman primates using ionizable lowâ€“molecular weight polymeric nanoparticles. Science Advances, 2018, 4, eaar8409.	4.7	81
51	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
52	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
53	Customizable Lipid Nanoparticle Materials for the Delivery of siRNAs and mRNAs. Angewandte Chemie - International Edition, 2018, 57, 13582-13586.	7.2	64
54	Customizable Lipid Nanoparticle Materials for the Delivery of siRNAs and mRNAs. Angewandte Chemie, 2018, 130, 13770-13774.	1.6	14

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55	Biomanufacturing for clinically advanced cell therapies. Nature Biomedical Engineering, 2018, 2, 362-376.	11.6	127
56	Microfluidic Fabrication of Colloidal Nanomaterials-Encapsulated Microcapsules for Biomolecular Sensing. Nano Letters, 2017, 17, 2015-2020.	4.5	78
57	Ultrasound-Mediated Delivery of RNA to Colonic Mucosa of LiveÂMice. Gastroenterology, 2017, 152, 1151-1160.	0.6	46
58	Comprehensive proteomic characterization of stem cell-derived extracellular matrices. Biomaterials, 2017, 128, 147-159.	5.7	132
59	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
60	Cell-Cycle-Targeting MicroRNAs as Therapeutic Tools against Refractory Cancers. Cancer Cell, 2017, 31, 576-590.e8.	7.7	84
61	Lipidoid mRNA Nanoparticles for Myocardial Delivery in Rodents. Methods in Molecular Biology, 2017, 1521, 153-166.	0.4	15
62	Delivery technologies for genome editing. Nature Reviews Drug Discovery, 2017, 16, 387-399.	21.5	422
63	Genome-Wide CRISPR Screen Identifies Regulators of Mitogen-Activated Protein Kinase as Suppressors of Liver Tumors in Mice. Gastroenterology, 2017, 152, 1161-1173.e1.	0.6	97
64	Glucose-responsive insulin by molecular and physical design. Nature Chemistry, 2017, 9, 937-944.	6.6	106
65	Large-Scale Quantitative Proteomics Identifies the Ubiquitin Ligase Nedd4-1 as an Essential Regulator of Liver Regeneration. Developmental Cell, 2017, 42, 616-625.e8.	3.1	20
66	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
67	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
68	Advances in the delivery of RNA therapeutics: from concept to clinical reality. Genome Medicine, 2017, 9, 60.	3.6	491
69	Nanoparticle-based drug delivery systems: a commercial and regulatory outlook as the field matures. Expert Opinion on Drug Delivery, 2017, 14, 851-864.	2.4	261
70	Lipid Nanoparticle Assisted mRNA Delivery for Potent Cancer Immunotherapy. Nano Letters, 2017, 17, 1326-1335.	4.5	506
71	Cytosolic delivery of siRNA by ultra-high affinity dsRNA binding proteins. Nucleic Acids Research, 2017, 45, 7602-7614.	6.5	11
72	Structure-guided chemical modification of guide RNA enables potent non-viral in vivo genome editing. Nature Biotechnology, 2017, 35, 1179-1187.	9.4	375

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73	Ly6Clo monocytes drive immunosuppression and confer resistance to anti-VEGFR2 cancer therapy. Journal of Clinical Investigation, 2017, 127, 3039-3051.	3.9	124
74	Poly(Limonene Thioether) Scaffold for Tissue Engineering. Advanced Healthcare Materials, 2016, 5, 813-821.	3.9	17
75	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
76	SequenceâEDefined Oligomers from Hydroxyproline Building Blocks for Parallel Synthesis Applications. Angewandte Chemie, 2016, 128, 9681-9685.	1.6	22
77	An elastic second skin. Nature Materials, 2016, 15, 911-918.	13.3	195
78	Efficacy and immunogenicity of unmodified and pseudouridine-modified mRNA delivered systemically with lipid nanoparticles inÂvivo. Biomaterials, 2016, 109, 78-87.	5.7	137
79	Polymerâ€“Lipid Nanoparticles for Systemic Delivery of mRNA to the Lungs. Angewandte Chemie - International Edition, 2016, 55, 13808-13812.	7.2	220
80	Polymerâ€“Lipid Nanoparticles for Systemic Delivery of mRNA to the Lungs. Angewandte Chemie, 2016, 128, 14012-14016.	1.6	42
81	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
82	Spatial Control of Gene Expression by Nanocarriers Using Heparin Masking and Ultrasound-Targeted Microbubble Destruction. ACS Nano, 2016, 10, 7267-7278.	7.3	40
83	MicroRNA regulation of endothelial TREX1 reprograms the tumour microenvironment. Nature Communications, 2016, 7, 13597.	5.8	54
84	Application of Targeted Molecular and Material Property Optimization to Bacterial Attachment-Resistant (Meth)acrylate Polymers. Biomacromolecules, 2016, 17, 2830-2838.	2.6	26
85	Proliferation and Recruitment Contribute to Myocardial Macrophage Expansion in Chronic Heart Failure. Circulation Research, 2016, 119, 853-864.	2.0	318
86	SequenceâEDefined Oligomers from Hydroxyproline Building Blocks for Parallel Synthesis Applications. Angewandte Chemie - International Edition, 2016, 55, 9529-9533.	7.2	56
87	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
88	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
89	Bioinspired Alkenyl Amino Alcohol Ionizable Lipid Materials for Highly Potent In Vivo mRNA Delivery. Advanced Materials, 2016, 28, 2939-2943.	11.1	172
90	Combinatorial hydrogel library enables identification of materials that mitigate the foreign body response in primates. Nature Biotechnology, 2016, 34, 345-352.	9.4	417

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91	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
92	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
93	Injectable Selfâ€Healing Glucoseâ€Responsive Hydrogels with pHâ€Regulated Mechanical Properties. Advanced Materials, 2016, 28, 86-91.	11.1	466
94	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
95	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
96	Materials for non-viral intracellular delivery of messenger RNA therapeutics. Journal of Controlled Release, 2016, 240, 227-234.	4.8	286
97	Poly(glycoamidoamine) Brushes Formulated Nanomaterials for Systemic siRNA and mRNA Delivery in Vivo. Nano Letters, 2016, 16, 842-848.	4.5	98
98	Myocardial Delivery of Lipidoid Nanoparticle Carrying modRNA Induces Rapid and Transient Expression. Molecular Therapy, 2016, 24, 66-75.	3.7	82
99	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
100	Neutrophil Responses to Sterile Implant Materials. PLoS ONE, 2015, 10, e0137550.	1.1	92
101	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
102	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
103	Ex Vivo Cytosolic Delivery of Functional Macromolecules to Immune Cells. PLoS ONE, 2015, 10, e0118803.	1.1	47
104	Discovery of a Novel Polymer for Human Pluripotent Stem Cell Expansion and Multilineage Differentiation. Advanced Materials, 2015, 27, 4006-4012.	11.1	75
105	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
106	Adenovirus-Mediated Somatic Genome Editing of Pten by CRISPR/Cas9 in Mouse Liver in Spite of Cas9-Specific Immune Responses. Human Gene Therapy, 2015, 26, 432-442.	1.4	291
107	Exploiting Electrostatic Interactions in Polymerâ€“Nanoparticle Hydrogels. ACS Macro Letters, 2015, 4, 848-852.	2.3	95
108	Precision cancer mouse models through genome editing with CRISPR-Cas9. Genome Medicine, 2015, 7, 53.	3.6	88

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109	Engineering synthetically modified insulin for glucose-responsive diabetes therapy. Expert Review of Endocrinology and Metabolism, 2015, 10, 483-489.	1.2	8
110	Accelerating the Translation of Nanomaterials in Biomedicine. ACS Nano, 2015, 9, 6644-6654.	7.3	279
111	Macrophages retain hematopoietic stem cells in the spleen via VCAM-1. Journal of Experimental Medicine, 2015, 212, 497-512.	4.2	143
112	Dendrimer-Inspired Nanomaterials for the in Vivo Delivery of siRNA to Lung Vasculature. Nano Letters, 2015, 15, 3008-3016.	4.5	113
113	In Vivo Compatibility of Graphene Oxide with Differing Oxidation States. ACS Nano, 2015, 9, 3866-3874.	7.3	197
114	Ultrasound-mediated gastrointestinal drug delivery. Science Translational Medicine, 2015, 7, 310ra168.	5.8	95
115	Macrophage Notch Ligand Delta-Like 4 Promotes Vein Graft Lesion Development. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2343-2353.	1.1	43
116	Smart approaches to glucose-responsive drug delivery. Journal of Drug Targeting, 2015, 23, 651-655.	2.1	81
117	Optimization of Lipid Nanoparticle Formulations for mRNA Delivery in Vivo with Fractional Factorial and Definitive Screening Designs. Nano Letters, 2015, 15, 7300-7306.	4.5	484
118	Bacterial Attachment to Polymeric Materials Correlates with Molecular Flexibility and Hydrophilicity. Advanced Healthcare Materials, 2015, 4, 695-701.	3.9	62
119	Managing diabetes with nanomedicine: challenges and opportunities. Nature Reviews Drug Discovery, 2015, 14, 45-57.	21.5	459
120	Stem Cell Factor Gene Transfer Improves Cardiac Function After Myocardial Infarction in Swine. Circulation: Heart Failure, 2015, 8, 167-174.	1.6	33
121	Silencing of CCR2 in myocarditis. European Heart Journal, 2015, 36, 1478-1488.	1.0	101
122	Lipopeptide nanoparticles for potent and selective siRNA delivery in rodents and nonhuman primates. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3955-3960.	3.3	366
123	Ionizable Amphiphilic Dendrimerâ€Based Nanomaterials with Alkylâ€Chainâ€Substituted Amines for Tunable siRNA Delivery to the Liver Endothelium Inâ€...Vivo. Angewandte Chemie - International Edition, 2014, 53, 14397-14401.	7.2	80
124	Conducting Polymers: Stretchable Polymeric Multielectrode Array for Conformal Neural Interfacing (Adv. Mater. 9/2014). Advanced Materials, 2014, 26, 1310-1310.	11.1	1
125	Genome editing with Cas9 in adult mice corrects a disease mutation and phenotype. Nature Biotechnology, 2014, 32, 551-553.	9.4	823
126	Materials for stem cell factories of the future. Nature Materials, 2014, 13, 570-579.	13.3	145

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127	In vivo endothelial siRNA delivery using polymeric nanoparticles with low molecular weight. Nature Nanotechnology, 2014, 9, 648-655.	15.6	466
128	Nucleic acid-mediated intracellular protein delivery by lipid-like nanoparticles. Biomaterials, 2014, 35, 6454-6461.	5.7	33
129	Knockdown and knockout of Î²1-integrin in hepatocytes impairs liver regeneration through inhibition of growth factor signalling. Nature Communications, 2014, 5, 3862.	5.8	71
130	Nanotechnology for InÂvivo Targeted siRNA Delivery. Advances in Genetics, 2014, 88, 37-69.	0.8	34
131	Small RNA combination therapy for lung cancer. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3553-61.	3.3	210
132	High throughput screening for biomaterials discovery. Journal of Controlled Release, 2014, 190, 115-126.	4.8	38
133	Nanoparticle-formulated siRNA targeting integrins inhibits hepatocellular carcinoma progression in mice. Nature Communications, 2014, 5, 3869.	5.8	76
134	CRISPR-mediated direct mutation of cancer genes in the mouse liver. Nature, 2014, 514, 380-384.	13.7	673
135	Degradable lipid nanoparticles with predictable in vivo siRNA delivery activity. Nature Communications, 2014, 5, 4277.	5.8	431
136	CRISPR-Cas9 Knockin Mice for Genome Editing and Cancer Modeling. Cell, 2014, 159, 440-455.	13.5	1,566
137	Non-viral vectors for gene-based therapy. Nature Reviews Genetics, 2014, 15, 541-555.	7.7	2,572
138	InÂVivo Silencing of the Transcription Factor IRF5 Reprograms the Macrophage Phenotype and Improves Infarct Healing. Journal of the American College of Cardiology, 2014, 63, 1556-1566.	1.2	220
139	Loss of Î±-catenin elicits a cholestatic response and impairs liver regeneration. Scientific Reports, 2014, 4, 6835.	1.6	36
140	Efficiency of siRNA delivery by lipid nanoparticles is limited by endocytic recycling. Nature Biotechnology, 2013, 31, 653-658.	9.4	660
141	Glucose-Responsive Microgels Integrated with Enzyme Nanocapsules for Closed-Loop Insulin Delivery. ACS Nano, 2013, 7, 6758-6766.	7.3	356
142	Drug Delivery: Lipid-Modified Aminoglycoside Derivatives for In Vivo siRNA Delivery (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	11.1	0
143	Coreâ€“Shell Hydrogel Microcapsules for Improved Islets Encapsulation. Advanced Healthcare Materials, 2013, 2, 667-672.	3.9	141
144	Delivery materials for siRNA therapeutics. Nature Materials, 2013, 12, 967-977.	13.3	1,513

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145	Multiparametric approach for the evaluation of lipid nanoparticles for siRNA delivery. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12881-12886.	3.3	131
146	Enhanced function of immuno-isolated islets in diabetes therapy byÂco-encapsulation with an anti-inflammatory drug. Biomaterials, 2013, 34, 5792-5801.	5.7	96
147	Injectable Nano-Network for Glucose-Mediated Insulin Delivery. ACS Nano, 2013, 7, 4194-4201.	7.3	395
148	Degradable Terpolymers with Alkyl Side Chains Demonstrate Enhanced Gene Delivery Potency and Nanoparticle Stability. Advanced Materials, 2013, 25, 1487-1493.	11.1	119
149	Discovery of Novel Materials with Broad Resistance to Bacterial Attachment Using Combinatorial Polymer Microarrays. Advanced Materials, 2013, 25, 2542-2547.	11.1	92
150	Cell Delivery: Coreâ€“Shell Hydrogel Microcapsules for Improved Islets Encapsulation (Adv. Healthcare) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.9	4
151	Systemic RNAi-mediated Gene Silencing in Nonhuman Primate and Rodent Myeloid Cells. Molecular Therapy - Nucleic Acids, 2012, 1, e4.	2.3	112
152	Modelling human embryoid body cell adhesion to a combinatorial library of polymer surfaces. Journal of Materials Chemistry, 2012, 22, 20902.	6.7	42
153	Rapid Discovery of Potent siRNA-Containing Lipid Nanoparticles Enabled by Controlled Microfluidic Formulation. Journal of the American Chemical Society, 2012, 134, 6948-6951.	6.6	288
154	Combinatorial discovery of polymers resistant to bacterial attachment. Nature Biotechnology, 2012, 30, 868-875.	9.4	328
155	In Vitroâ€“In Vivo Translation of Lipid Nanoparticles for Hepatocellular siRNA Delivery. ACS Nano, 2012, 6, 6922-6929.	7.3	96
156	Effect of molecular weight of amine end-modified poly(Î²-amino ester)s on gene delivery efficiency and toxicity. Biomaterials, 2012, 33, 3594-3603.	5.7	127
157	Polymers with hydro-responsive topography identified using high throughput AFM of an acrylate microarray. Soft Matter, 2011, 7, 7194.	1.2	22
158	Therapeutic siRNA silencing in inflammatory monocytes in mice. Nature Biotechnology, 2011, 29, 1005-1010.	9.4	697
159	High throughput discovery of new fouling-resistant surfaces. Journal of Materials Chemistry, 2011, 21, 693-704.	6.7	58
160	Silencing or Stimulation? siRNA Delivery and the Immune System. Annual Review of Chemical and Biomolecular Engineering, 2011, 2, 77-96.	3.3	161
161	Regulating Foreign-Body Responses: Development of Cationic Polymer Coatings to Regulate Foreign-Body Responses (Adv. Mater. 24/2011). Advanced Materials, 2011, 23, H129-H129.	11.1	0
162	Surface-engineered substrates for improved human pluripotent stem cell culture under fully defined conditions. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18714-18719.	3.3	137

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163	Combinatorial development of biomaterials for clonal growth of human pluripotent stem cells. Nature Materials, 2010, 9, 768-778.	13.3	504
164	Lipid-like materials for low-dose, in vivo gene silencing. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1864-1869.	3.3	776
165	Photo-response behavior of electrospun nanofibers based on spiropyran-cyclodextrin modified polymer. Journal of Materials Chemistry, 2010, 20, 9910.	6.7	61
166	Smallâ€Molecule Endâ€Groups of Linear Polymer Determine Cellâ€type Geneâ€Delivery Efficacy. Advanced Materials, 2009, 21, 4947-4951.	11.1	105
167	Knocking down barriers: advances in siRNA delivery. Nature Reviews Drug Discovery, 2009, 8, 129-138.	21.5	2,639
168	A combinatorial library of lipid-like materials for delivery of RNAi therapeutics. Nature Biotechnology, 2008, 26, 561-569.	9.4	1,076
169	A Combinatorial Polymer Library Approach Yields Insight into Nonviral Gene Delivery. Accounts of Chemical Research, 2008, 41, 749-759.	7.6	530
170	Gene Delivery Properties of End-Modified Poly(Î²-amino ester)s. Bioconjugate Chemistry, 2007, 18, 1887-1896.	1.8	75
171	Rapid Optimization of Gene Delivery by Parallel End-modification of Poly(Î²-amino ester)s. Molecular Therapy, 2007, 15, 1306-1312.	3.7	118
172	Rapid Optimization of Gene Delivery by Parallel End-modification of Poly(Î²-amino ester)s. Molecular Therapy, 2007, 15, 1306-12.	3.7	47
173	Biomaterial microarrays: rapid, microscale screening of polymerâ€“cell interaction. Biomaterials, 2005, 26, 4892-4897.	5.7	267
174	Structure/property studies of polymeric gene delivery using a library of poly(Î²-amino esters). Molecular Therapy, 2005, 11, 426-434.	3.7	326
175	Poly(ÃŸ-amino ester)s for DNA delivery. Israel Journal of Chemistry, 2005, 45, 477-485.	1.0	16
176	Nanoliter-scale synthesis of arrayed biomaterials and application to human embryonic stem cells. Nature Biotechnology, 2004, 22, 863-866.	9.4	734
177	MATERIALS SCIENCE: Smart Biomaterials. Science, 2004, 305, 1923-1924.	6.0	281
178	A polymer library approach to suicide gene therapy for cancer. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16028-16033.	3.3	255
179	Title is missing!. Angewandte Chemie, 2003, 115, 3261-3266.	1.6	55
180	Semi-Automated Synthesis and Screening of a Large Library of Degradable Cationic Polymers for Gene Delivery. Angewandte Chemie - International Edition, 2003, 42, 3153-3158.	7.2	445