Daniel G Anderson

List of Publications by Year in Descending Order

179 papers	30,402 citations	82 h-index	174 g-index
182 ext. papers	35,736 ext. citations	17.5 avg, IF	7.39 L-index

#	Paper	IF	Citations
179	Nanoscale delivery platforms for RNA therapeutics: Challenges and the current state of the art.. *Med*, **2022**, 3, 167-187	31.7	1
178	The clinical progress of mRNA vaccines and immunotherapies.. *Nature Biotechnology*, **2022**,	44.5	22
177	Selective targeting of MYC mRNA by stabilized antisense oligonucleotides. *Oncogene*, **2021**, 40, 6527-6539	9.2	1
176	The NIH Somatic Cell Genome Editing program. *Nature*, **2021**, 592, 195-204	50.4	21
175	Systems Approach to Discovery of Therapeutic Targets for Vein Graft Disease: PPARγ Pivotally Regulates Metabolism, Activation, and Heterogeneity of Macrophages and Lesion Development. *Circulation*, **2021**, 143, 2454-2470	16.7	5
174	Frataxin deficiency promotes endothelial senescence in pulmonary hypertension. *Journal of Clinical Investigation*, **2021**, 131,	15.9	8
173	Microgel encapsulated nanoparticles for glucose-responsive insulin delivery. *Biomaterials*, **2021**, 267, 120458	15.6	10
172	Identification of a long non-coding RNA regulator of liver carcinoma cell survival. *Cell Death and Disease*, **2021**, 12, 178	9.8	1
171	Systemic delivery of mRNA and DNA to the lung using polymer-lipid nanoparticles. *Biomaterials*, **2021**, 275, 120966	15.6	6
170	mRNA therapeutics: beyond vaccine applications. *Trends in Molecular Medicine*, **2021**, 27, 923-924	11.5	4
169	Engineered insulin-polycation complexes for glucose-responsive delivery with high insulin loading. *Journal of Controlled Release*, **2021**, 338, 71-79	11.7	1
168	Synergistic lipid compositions for albumin receptor mediated delivery of mRNA to the liver. *Nature Communications*, **2020**, 11, 2424	17.4	61
167	S100A9-RAGE Axis Accelerates Formation of Macrophage-Mediated Extracellular Vesicle Microcalcification in Diabetes Mellitus. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2020**, 40, 1838-1853	9.4	21
166	A retrievable implant for the long-term encapsulation and survival of therapeutic xenogeneic cells. *Nature Biomedical Engineering*, **2020**, 4, 814-826	19	37
165	Magnetic Retrieval of Encapsulated Beta Cell Transplants from Diabetic Mice Using Dual-Function MRI Visible and Retrievable Microcapsules. *Advanced Materials*, **2020**, 32, e1904502	24	11
164	Downregulation of the Arg/N-degron Pathway Sensitizes Cancer Cells to Chemotherapy In Vivo. *Molecular Therapy*, **2020**, 28, 1092-1104	11.7	9
163	Chemical modifications of adenine base editor mRNA and guide RNA expand its application scope. *Nature Communications*, **2020**, 11, 1979	17.4	31

162	In Vivo 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	10.7	9
161	Glucose-Responsive Nanoparticles for Rapid and Extended Self-Regulated Insulin Delivery. *ACS Nano*, **2020**, 14, 488-497	16.7	63
160	Nanoparticle-encapsulated siRNAs for gene silencing in the haematopoietic stem-cell niche. *Nature Biomedical Engineering*, **2020**, 4, 1076-1089	19	29
159	Delivery of Tissue-Targeted Scalpels: Opportunities and Challenges for CRISPR/Cas-Based Genome Editing. *ACS Nano*, **2020**, 14, 9243-9262	16.7	27
158	Engineered PLGA microparticles for long-term, pulsatile release of STING agonist for cancer immunotherapy. *Science Translational Medicine*, **2020**, 12,	17.5	47
157	Chemical Tuning of Fibers Drawn from Extensible Hyaluronic Acid Networks. *Journal of the American Chemical Society*, **2020**, 142, 19715-19721	16.4	7
156	Adenine base editing in an adult mouse model of tyrosinaemia. *Nature Biomedical Engineering*, **2020**, 4, 125-130	19	86
155	Biomaterials for Personalized Cell Therapy. *Advanced Materials*, **2020**, 32, e1902005	24	39
154	Endothelial TGF- signalling drives vascular inflammation and atherosclerosis. *Nature Metabolism*, **2019**, 1, 912-926	14.6	78
153	CRISPR-Cas: a tool for cancer research and therapeutics. *Nature Reviews Clinical Oncology*, **2019**, 16, 281-295	19.4	83
152	mRNA Delivery for Therapeutic Anti-HER2 Antibody Expression In Vivo. *Molecular Therapy*, **2019**, 27, 1415-1423	11.7	49
151	Strategies, design, and chemistry in siRNA delivery systems. *Advanced Drug Delivery Reviews*, **2019**, 144, 133-147	18.5	163
150	RNA Circularization Diminishes Immunogenicity and Can Extend Translation Duration In Vivo. *Molecular Cell*, **2019**, 74, 508-520.e4	17.6	111
149	Delivering the Messenger: Advances in Technologies for Therapeutic mRNA Delivery. *Molecular Therapy*, **2019**, 27, 710-728	11.7	354
148	Polyimide Electrode-Based Electrical Stimulation Impedes Early Stage Muscle Graft Regeneration. *Frontiers in Neurology*, **2019**, 10, 252	4.1	4
147	BOLA (BolA Family Member 3) Deficiency Controls Endothelial Metabolism and Glycine Homeostasis in Pulmonary Hypertension. *Circulation*, **2019**, 139, 2238-2255	16.7	28
146	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	11.5	17
145	Gene Delivery: Inhaled Nanoformulated mRNA Polyplexes for Protein Production in Lung Epithelium (Adv. Mater. 8/2019). *Advanced Materials*, **2019**, 31, 1970053	24	3

144	Delivery of mRNA vaccines with heterocyclic lipids increases anti-tumor efficacy by STING-mediated immune cell activation. *Nature Biotechnology*, **2019**, 37, 1174-1185	44.5	200
143	Inhaled Nanoformulated mRNA Polyplexes for Protein Production in Lung Epithelium. *Advanced Materials*, **2019**, 31, e1805116	24	118
142	Uremic Toxin Indoxyl Sulfate Promotes Proinflammatory Macrophage Activation Via the Interplay of OATP2B1 and Dll4-Notch Signaling. *Circulation*, **2019**, 139, 78-96	16.7	65
141	Partial DNA-guided Cas9 enables genome editing with reduced off-target activity. *Nature Chemical Biology*, **2018**, 14, 311-316	11.7	140
140	Rapid, Single-Cell Analysis and Discovery of Vectored mRNA Transfection In Vivo with a loxP-Flanked tdTomato Reporter Mouse. *Molecular Therapy - Nucleic Acids*, **2018**, 10, 55-63	10.7	34
139	Engineered 3D-printed artificial axons. *Scientific Reports*, **2018**, 8, 478	4.9	50
138	Reduction of measurement noise in a continuous glucose monitor by coating the sensor with a zwitterionic polymer. *Nature Biomedical Engineering*, **2018**, 2, 894-906	19	94
137	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	19	145
136	Customizable Lipid Nanoparticle Materials for the Delivery of siRNAs and mRNAs. *Angewandte Chemie - International Edition*, **2018**, 57, 13582-13586	16.4	38
135	Customizable Lipid Nanoparticle Materials for the Delivery of siRNAs and mRNAs. *Angewandte Chemie*, **2018**, 130, 13770-13774	3.6	14
134	Biomanufacturing for clinically advanced cell therapies. *Nature Biomedical Engineering*, **2018**, 2, 362-376	19	86
133	Prediction of Broad-Spectrum Pathogen Attachment to Coating Materials for Biomedical Devices. *ACS Applied Materials & Interfaces*, **2018**, 10, 139-149	9.5	30
132	Optimization of a Degradable Polymer-Lipid Nanoparticle for Potent Systemic Delivery of mRNA to the Lung Endothelium and Immune Cells. *Nano Letters*, **2018**, 18, 6449-6454	11.5	74
131	MicroRNA regulation of the MRN complex impacts DNA damage, cellular senescence, and angiogenic signaling. *Cell Death and Disease*, **2018**, 9, 632	9.8	15
130	Report of the Key Opinion Leaders Meeting on Stem Cell-derived Beta Cells. *Transplantation*, **2018**, 102, 1223-1229	1.8	47
129	Poly(β-amino ester)-co-poly(caprolactone) Terpolymers as Nonviral Vectors for mRNA Delivery In Vitro and In Vivo. *Advanced Healthcare Materials*, **2018**, 7, e1800249	10.1	34
128	Ionizable Amino-Polyesters Synthesized via Ring Opening Polymerization of Tertiary Amino-Alcohols for Tissue Selective mRNA Delivery. *Advanced Materials*, **2018**, 30, e1801151	24	50
127	Endothelial siRNA delivery in nonhuman primates using ionizable low-molecular weight polymeric nanoparticles. *Science Advances*, **2018**, 4, eaar8409	14.3	51

126	Microfluidic Fabrication of Colloidal Nanomaterials-Encapsulated Microcapsules for Biomolecular Sensing. *Nano Letters*, **2017**, 17, 2015-2020	11.5	60
125	Ultrasound-Mediated Delivery of RNA to Colonic Mucosa of Live Mice. *Gastroenterology*, **2017**, 152, 1151-1160	13.3	35
124	Comprehensive proteomic characterization of stem cell-derived extracellular matrices. *Biomaterials*, **2017**, 128, 147-159	15.6	83
123	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	11.5	101
122	Cell-Cycle-Targeting MicroRNAs as Therapeutic Tools against Refractory Cancers. *Cancer Cell*, **2017**, 31, 576-590.e8	24.3	68
121	Lipidoid mRNA Nanoparticles for Myocardial Delivery in Rodents. *Methods in Molecular Biology*, **2017**, 1521, 153-166	1.4	8
120	Delivery technologies for genome editing. *Nature Reviews Drug Discovery*, **2017**, 16, 387-399	64.1	309
119	Genome-Wide CRISPR Screen Identifies Regulators of Mitogen-Activated Protein Kinase as Suppressors of Liver Tumors in Mice. *Gastroenterology*, **2017**, 152, 1161-1173.e1	13.3	63
118	Glucose-responsive insulin by molecular and physical design. *Nature Chemistry*, **2017**, 9, 937-943	17.6	72
117	Large-Scale Quantitative Proteomics Identifies the Ubiquitin Ligase Nedd4-1 as an Essential Regulator of Liver Regeneration. *Developmental Cell*, **2017**, 42, 616-625.e8	10.2	10
116	Synthesis and Biological Evaluation of Ionizable Lipid Materials for the In Vivo Delivery of Messenger RNA to B Lymphocytes. *Advanced Materials*, **2017**, 29, 1606944	24	105
115	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	11.5	75
114	Advances in the delivery of RNA therapeutics: from concept to clinical reality. *Genome Medicine*, **2017**, 9, 60	14.4	359
113	Nanoparticle-based drug delivery systems: a commercial and regulatory outlook as the field matures. *Expert Opinion on Drug Delivery*, **2017**, 14, 851-864	8	200
112	Lipid Nanoparticle Assisted mRNA Delivery for Potent Cancer Immunotherapy. *Nano Letters*, **2017**, 17, 1326-1335	11.5	302
111	Cytosolic delivery of siRNA by ultra-high affinity dsRNA binding proteins. *Nucleic Acids Research*, **2017**, 45, 7602-7614	20.1	5
110	Structure-guided chemical modification of guide RNA enables potent non-viral in vivo genome editing. *Nature Biotechnology*, **2017**, 35, 1179-1187	44.5	255
109	Ly6Clo monocytes drive immunosuppression and confer resistance to anti-VEGFR2 cancer therapy. *Journal of Clinical Investigation*, **2017**, 127, 3039-3051	15.9	87

108	Myocardial Delivery of Lipidoid Nanoparticle Carrying modRNA Induces Rapid and Transient Expression. *Molecular Therapy*, **2016**, 24, 66-75	11.7	56
107	MicroRNA regulation of endothelial TREX1 reprograms the tumour microenvironment. *Nature Communications*, **2016**, 7, 13597	17.4	39
106	Application of Targeted Molecular and Material Property Optimization to Bacterial Attachment-Resistant (Meth)acrylate Polymers. *Biomacromolecules*, **2016**, 17, 2830-8	6.9	17
105	Proliferation and Recruitment Contribute to Myocardial Macrophage Expansion in Chronic Heart Failure. *Circulation Research*, **2016**, 119, 853-64	15.7	210
104	Sequence-Defined Oligomers from Hydroxyproline Building Blocks for Parallel Synthesis Applications. *Angewandte Chemie - International Edition*, **2016**, 55, 9529-33	16.4	39
103	RNAi targeting multiple cell adhesion molecules reduces immune cell recruitment and vascular inflammation after myocardial infarction. *Science Translational Medicine*, **2016**, 8, 342ra80	17.5	123
102	Physical and mechanical properties of PLA, and their functions in widespread applications - A comprehensive review. *Advanced Drug Delivery Reviews*, **2016**, 107, 367-392	18.5	1194
101	Bioinspired Alkenyl Amino Alcohol Ionizable Lipid Materials for Highly Potent In Vivo mRNA Delivery. *Advanced Materials*, **2016**, 28, 2939-43	24	125
100	Combinatorial hydrogel library enables identification of materials that mitigate the foreign body response in primates. *Nature Biotechnology*, **2016**, 34, 345-52	44.5	302
99	Long-term glycemic control using polymer-encapsulated human stem cell-derived beta cells in immune-competent mice. *Nature Medicine*, **2016**, 22, 306-11	50.5	430
98	RNAi-nanoparticulate manipulation of gene expression as a new functional genomics tool in the liver. *Journal of Hepatology*, **2016**, 64, 899-907	13.4	9
97	Injectable Self-Healing Glucose-Responsive Hydrogels with pH-Regulated Mechanical Properties. *Advanced Materials*, **2016**, 28, 86-91	24	340
96	Therapeutic genome editing by combined viral and non-viral delivery of CRISPR system components in vivo. *Nature Biotechnology*, **2016**, 34, 328-33	44.5	610
95	Frontline Science: Splenic progenitors aid in maintaining high neutrophil numbers at sites of sterile chronic inflammation. *Journal of Leukocyte Biology*, **2016**, 100, 253-60	6.5	7
94	Materials for non-viral intracellular delivery of messenger RNA therapeutics. *Journal of Controlled Release*, **2016**, 240, 227-234	11.7	196
93	Poly(glycoamidoamine) Brushes Formulated Nanomaterials for Systemic siRNA and mRNA Delivery in Vivo. *Nano Letters*, **2016**, 16, 842-8	11.5	82
92	Poly(Limonene Thioether) Scaffold for Tissue Engineering. *Advanced Healthcare Materials*, **2016**, 5, 813-21	10.1	12
91	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	11.5	233

90	Sequence-Defined Oligomers from Hydroxyproline Building Blocks for Parallel Synthesis Applications. *Angewandte Chemie*, **2016**, 128, 9681-9685	3.6	18
89	An elastic second skin. *Nature Materials*, **2016**, 15, 911-8	27	144
88	Efficacy and immunogenicity of unmodified and pseudouridine-modified mRNA delivered systemically with lipid nanoparticles in vivo. *Biomaterials*, **2016**, 109, 78-87	15.6	86
87	Polymer-Lipid Nanoparticles for Systemic Delivery of mRNA to the Lungs. *Angewandte Chemie - International Edition*, **2016**, 55, 13808-13812	16.4	150
86	Polymer–Lipid Nanoparticles for Systemic Delivery of mRNA to the Lungs. *Angewandte Chemie*, **2016**, 128, 14012-14016	3.6	34
85	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	11.5	164
84	Spatial Control of Gene Expression by Nanocarriers Using Heparin Masking and Ultrasound-Targeted Microbubble Destruction. *ACS Nano*, **2016**, 10, 7267-78	16.7	36
83	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, 432-42	4.8	226
82	Exploiting Electrostatic Interactions in Polymer–Nanoparticle Hydrogels. *ACS Macro Letters*, **2015**, 4, 848-852	6.6	68
81	Precision cancer mouse models through genome editing with CRISPR-Cas9. *Genome Medicine*, **2015**, 7, 53	14.4	61
80	Engineering Synthetically Modified Insulin for Glucose-Responsive Diabetes Therapy. *Expert Review of Endocrinology and Metabolism*, **2015**, 10, 483-489	4.1	8
79	Accelerating the Translation of Nanomaterials in Biomedicine. *ACS Nano*, **2015**, 9, 6644-54	16.7	220
78	Macrophages retain hematopoietic stem cells in the spleen via VCAM-1. *Journal of Experimental Medicine*, **2015**, 212, 497-512	16.6	104
77	Dendrimer-Inspired Nanomaterials for the in Vivo Delivery of siRNA to Lung Vasculature. *Nano Letters*, **2015**, 15, 3008-16	11.5	90
76	In vivo compatibility of graphene oxide with differing oxidation states. *ACS Nano*, **2015**, 9, 3866-74	16.7	172
75	Ultrasound-mediated gastrointestinal drug delivery. *Science Translational Medicine*, **2015**, 7, 310ra168	17.5	64
74	Macrophage Notch Ligand Delta-Like 4 Promotes Vein Graft Lesion Development: Implications for the Treatment of Vein Graft Failure. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 2343-2353	9.4	38
73	Smart approaches to glucose-responsive drug delivery. *Journal of Drug Targeting*, **2015**, 23, 651-5	5.4	62

72	Optimization of Lipid Nanoparticle Formulations for mRNA Delivery in Vivo with Fractional Factorial and Definitive Screening Designs. *Nano Letters*, **2015**, 15, 7300-6	11.5	279
71	Bacterial attachment to polymeric materials correlates with molecular flexibility and hydrophilicity. *Advanced Healthcare Materials*, **2015**, 4, 695-701	10.1	48
70	Managing diabetes with nanomedicine: challenges and opportunities. *Nature Reviews Drug Discovery*, **2015**, 14, 45-57	64.1	359
69	Stem cell factor gene transfer improves cardiac function after myocardial infarction in swine. *Circulation: Heart Failure*, **2015**, 8, 167-74	7.6	27
68	Silencing of CCR2 in myocarditis. *European Heart Journal*, **2015**, 36, 1478-88	9.5	70
67	Genetic and hypoxic alterations of the microRNA-210-ISCU1/2 axis promote iron-sulfur deficiency and pulmonary hypertension. *EMBO Molecular Medicine*, **2015**, 7, 695-713	12	96
66	Neutrophil Responses to Sterile Implant Materials. *PLoS ONE*, **2015**, 10, e0137550	3.7	64
65	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, 257-65	15.6	42
64	Size- and shape-dependent foreign body immune response to materials implanted in rodents and non-human primates. *Nature Materials*, **2015**, 14, 643-51	27	534
63	Ex vivo cytosolic delivery of functional macromolecules to immune cells. *PLoS ONE*, **2015**, 10, e0118803	3.7	38
62	Discovery of a Novel Polymer for Human Pluripotent Stem Cell Expansion and Multilineage Differentiation. *Advanced Materials*, **2015**, 27, 4006-12	24	64
61	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, 2401-6	11.5	150
60	Materials for stem cell factories of the future. *Nature Materials*, **2014**, 13, 570-9	27	126
59	In vivo endothelial siRNA delivery using polymeric nanoparticles with low molecular weight. *Nature Nanotechnology*, **2014**, 9, 648-655	28.7	385
58	Nucleic acid-mediated intracellular protein delivery by lipid-like nanoparticles. *Biomaterials*, **2014**, 35, 6454-61	15.6	23
57	Knockdown and knockout of 1-integrin in hepatocytes impairs liver regeneration through inhibition of growth factor signalling. *Nature Communications*, **2014**, 5, 3862	17.4	51
56	Nanotechnology for in vivo targeted siRNA delivery. *Advances in Genetics*, **2014**, 88, 37-69	3.3	24
55	Small RNA combination therapy for lung cancer. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E3553-61	11.5	177

54	High throughput screening for biomaterials discovery. *Journal of Controlled Release*, **2014**, 190, 115-26	11.7	32
53	Nanoparticle-formulated siRNA targeting integrins inhibits hepatocellular carcinoma progression in mice. *Nature Communications*, **2014**, 5, 3869	17.4	57
52	CRISPR-mediated direct mutation of cancer genes in the mouse liver. *Nature*, **2014**, 514, 380-4	50.4	521
51	Degradable lipid nanoparticles with predictable in vivo siRNA delivery activity. *Nature Communications*, **2014**, 5, 4277	17.4	320
50	CRISPR-Cas9 knockin mice for genome editing and cancer modeling. *Cell*, **2014**, 159, 440-55	56.2	1089
49	Non-viral vectors for gene-based therapy. *Nature Reviews Genetics*, **2014**, 15, 541-55	30.1	2032
48	In vivo silencing of the transcription factor IRF5 reprograms the macrophage phenotype and improves infarct healing. *Journal of the American College of Cardiology*, **2014**, 63, 1556-66	15.1	187
47	Loss of □catenin elicits a cholestatic response and impairs liver regeneration. *Scientific Reports*, **2014**, 4, 6835	4.9	31
46	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, 3955-60	11.5	275
45	Ionizable Amphiphilic Dendrimer-Based Nanomaterials with Alkyl-Chain-Substituted Amines for Tunable siRNA Delivery to the Liver Endothelium In Vivo. *Angewandte Chemie*, **2014**, 126, 14625-14629	3.6	10
44	Ionizable amphiphilic dendrimer-based nanomaterials with alkyl-chain-substituted amines for tunable siRNA delivery to the liver endothelium in vivo. *Angewandte Chemie - International Edition*, **2014**, 53, 14397-401	16.4	59
43	Conducting Polymers: Stretchable Polymeric Multielectrode Array for Conformal Neural Interfacing (Adv. Mater. 9/2014). *Advanced Materials*, **2014**, 26, 1310-1310	24	1
42	Genome editing with Cas9 in adult mice corrects a disease mutation and phenotype. *Nature Biotechnology*, **2014**, 32, 551-3	44.5	694
41	Efficiency of siRNA delivery by lipid nanoparticles is limited by endocytic recycling. *Nature Biotechnology*, **2013**, 31, 653-8	44.5	514
40	Glucose-responsive microgels integrated with enzyme nanocapsules for closed-loop insulin delivery. *ACS Nano*, **2013**, 7, 6758-66	16.7	300
39	Drug Delivery: Lipid-Modified Aminoglycoside Derivatives for In Vivo siRNA Delivery (Adv. Mater. 33/2013). *Advanced Materials*, **2013**, 25, 4680-4680	24	
38	Core-shell hydrogel microcapsules for improved islets encapsulation. *Advanced Healthcare Materials*, **2013**, 2, 667-72	10.1	118
37	Delivery materials for siRNA therapeutics. *Nature Materials*, **2013**, 12, 967-77	27	1245

36	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, 12881-6	11.5	101
35	Enhanced function of immuno-isolated islets in diabetes therapy by co-encapsulation with an anti-inflammatory drug. *Biomaterials*, **2013**, 34, 5792-801	15.6	79
34	Injectable nano-network for glucose-mediated insulin delivery. *ACS Nano*, **2013**, 7, 4194-201	16.7	333
33	Degradable terpolymers with alkyl side chains demonstrate enhanced gene delivery potency and nanoparticle stability. *Advanced Materials*, **2013**, 25, 1487-93	24	93
32	Discovery of novel materials with broad resistance to bacterial attachment using combinatorial polymer microarrays. *Advanced Materials*, **2013**, 25, 2542-7	24	72
31	Cell Delivery: Core□Shell Hydrogel Microcapsules for Improved Islets Encapsulation (Adv. Healthcare Mater. 5/2013). *Advanced Healthcare Materials*, **2013**, 2, 768-768	10.1	3
30	Effect of molecular weight of amine end-modified poly(□amino ester)s on gene delivery efficiency and toxicity. *Biomaterials*, **2012**, 33, 3594-603	15.6	107
29	Modelling human embryoid body cell adhesion to a combinatorial library of polymer surfaces. *Journal of Materials Chemistry*, **2012**, 22, 20902-20906		37
28	Rapid discovery of potent siRNA-containing lipid nanoparticles enabled by controlled microfluidic formulation. *Journal of the American Chemical Society*, **2012**, 134, 6948-51	16.4	201
27	Combinatorial discovery of polymers resistant to bacterial attachment. *Nature Biotechnology*, **2012**, 30, 868-875	44.5	254
26	In vitro-in vivo translation of lipid nanoparticles for hepatocellular siRNA delivery. *ACS Nano*, **2012**, 6, 6922-9	16.7	79
25	Systemic RNAi-mediated Gene Silencing in Nonhuman Primate and Rodent Myeloid Cells. *Molecular Therapy - Nucleic Acids*, **2012**, 1, e4	10.7	100
24	Therapeutic siRNA silencing in inflammatory monocytes in mice. *Nature Biotechnology*, **2011**, 29, 1005-10	44.5	594
23	High throughput discovery of new fouling-resistant surfaces. *Journal of Materials Chemistry*, **2011**, 21, 693-704		56
22	Silencing or stimulation? siRNA delivery and the immune system. *Annual Review of Chemical and Biomolecular Engineering*, **2011**, 2, 77-96	8.9	137
21	Regulating Foreign-Body Responses: Development of Cationic Polymer Coatings to Regulate Foreign-Body Responses (Adv. Mater. 24/2011). *Advanced Materials*, **2011**, 23, H129-H129	24	
20	Polymers with hydro-responsive topography identified using high throughput AFM of an acrylate microarray. *Soft Matter*, **2011**, 7, 7194-7197	3.6	21
19	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, 18714-9	11.5	128

18	Combinatorial development of biomaterials for clonal growth of human pluripotent stem cells. *Nature Materials*, **2010**, 9, 768-78	27	464
17	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, 1864-9	11.5	633
16	Photo-response behavior of electrospun nanofibers based on spiropyran-cyclodextrin modified polymer. *Journal of Materials Chemistry*, **2010**, 20, 9910-9917		55
15	Small-Molecule End-Groups of Linear Polymer Determine Cell-type Gene-Delivery Efficacy. *Advanced Materials*, **2009**, 21, 4947-4951	24	96
14	Knocking down barriers: advances in siRNA delivery. *Nature Reviews Drug Discovery*, **2009**, 8, 129-38	64.1	2281
13	A combinatorial library of lipid-like materials for delivery of RNAi therapeutics. *Nature Biotechnology*, **2008**, 26, 561-9	44.5	908
12	A combinatorial polymer library approach yields insight into nonviral gene delivery. *Accounts of Chemical Research*, **2008**, 41, 749-59	24.3	464
11	Rapid Optimization of Gene Delivery by Parallel End-modification of Poly(□amino ester)s. *Molecular Therapy*, **2007**, 15, 1306-1312	11.7	103
10	Gene delivery properties of end-modified poly(beta-amino ester)s. *Bioconjugate Chemistry*, **2007**, 18, 1887-96	6.3	67
9	Rapid optimization of gene delivery by parallel end-modification of poly(beta-amino ester)s. *Molecular Therapy*, **2007**, 15, 1306-12	11.7	40
8	Structure/property studies of polymeric gene delivery using a library of poly(beta-amino esters). *Molecular Therapy*, **2005**, 11, 426-34	11.7	287
7	Poly(□amino ester)s for DNA delivery. *Israel Journal of Chemistry*, **2005**, 45, 477-485	3.4	16
6	Biomaterial microarrays: rapid, microscale screening of polymer-cell interaction. *Biomaterials*, **2005**, 26, 4892-7	15.6	252
5	Nanoliter-scale synthesis of arrayed biomaterials and application to human embryonic stem cells. *Nature Biotechnology*, **2004**, 22, 863-6	44.5	672
4	Materials science. Smart biomaterials. *Science*, **2004**, 305, 1923-4	33.3	254
3	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, 16028-33	11.5	235
2	Semi-Automated Synthesis and Screening of a Large Library of Degradable Cationic Polymers for Gene Delivery. *Angewandte Chemie*, **2003**, 115, 3261-3266	3.6	43
1	Semi-automated synthesis and screening of a large library of degradable cationic polymers for gene delivery. *Angewandte Chemie - International Edition*, **2003**, 42, 3153-8	16.4	394