

Daniel G Anderson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Knocking down barriers: advances in siRNA delivery. <i>Nature Reviews Drug Discovery</i> , 2009 , 8, 129-38	64.1	2281
178	Non-viral vectors for gene-based therapy. <i>Nature Reviews Genetics</i> , 2014 , 15, 541-55	30.1	2032
177	Delivery materials for siRNA therapeutics. <i>Nature Materials</i> , 2013 , 12, 967-77	27	1245
176	Physical and mechanical properties of PLA, and their functions in widespread applications - A comprehensive review. <i>Advanced Drug Delivery Reviews</i> , 2016 , 107, 367-392	18.5	1194
175	CRISPR-Cas9 knockin mice for genome editing and cancer modeling. <i>Cell</i> , 2014 , 159, 440-55	56.2	1089
174	A combinatorial library of lipid-like materials for delivery of RNAi therapeutics. <i>Nature Biotechnology</i> , 2008 , 26, 561-9	44.5	908
173	Genome editing with Cas9 in adult mice corrects a disease mutation and phenotype. <i>Nature Biotechnology</i> , 2014 , 32, 551-3	44.5	694
172	Nanoliter-scale synthesis of arrayed biomaterials and application to human embryonic stem cells. <i>Nature Biotechnology</i> , 2004 , 22, 863-6	44.5	672
171	Lipid-like materials for low-dose, in vivo gene silencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 1864-9	11.5	633
170	Therapeutic genome editing by combined viral and non-viral delivery of CRISPR system components in vivo. <i>Nature Biotechnology</i> , 2016 , 34, 328-33	44.5	610
169	Therapeutic siRNA silencing in inflammatory monocytes in mice. <i>Nature Biotechnology</i> , 2011 , 29, 1005-10	44.5	594
168	Size- and shape-dependent foreign body immune response to materials implanted in rodents and non-human primates. <i>Nature Materials</i> , 2015 , 14, 643-51	27	534
167	CRISPR-mediated direct mutation of cancer genes in the mouse liver. <i>Nature</i> , 2014 , 514, 380-4	50.4	521
166	Efficiency of siRNA delivery by lipid nanoparticles is limited by endocytic recycling. <i>Nature Biotechnology</i> , 2013 , 31, 653-8	44.5	514
165	Combinatorial development of biomaterials for clonal growth of human pluripotent stem cells. <i>Nature Materials</i> , 2010 , 9, 768-78	27	464
164	A combinatorial polymer library approach yields insight into nonviral gene delivery. <i>Accounts of Chemical Research</i> , 2008 , 41, 749-59	24.3	464
163	Long-term glycemic control using polymer-encapsulated human stem cell-derived beta cells in immune-competent mice. <i>Nature Medicine</i> , 2016 , 22, 306-11	50.5	430

162	Semi-automated synthesis and screening of a large library of degradable cationic polymers for gene delivery. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 3153-8	16.4	394
161	In vivo endothelial siRNA delivery using polymeric nanoparticles with low molecular weight. <i>Nature Nanotechnology</i> , 2014 , 9, 648-655	28.7	385
160	Managing diabetes with nanomedicine: challenges and opportunities. <i>Nature Reviews Drug Discovery</i> , 2015 , 14, 45-57	64.1	359
159	Advances in the delivery of RNA therapeutics: from concept to clinical reality. <i>Genome Medicine</i> , 2017 , 9, 60	14.4	359
158	Delivering the Messenger: Advances in Technologies for Therapeutic mRNA Delivery. <i>Molecular Therapy</i> , 2019 , 27, 710-728	11.7	354
157	Injectable Self-Healing Glucose-Responsive Hydrogels with pH-Regulated Mechanical Properties. <i>Advanced Materials</i> , 2016 , 28, 86-91	24	340
156	Injectable nano-network for glucose-mediated insulin delivery. <i>ACS Nano</i> , 2013 , 7, 4194-201	16.7	333
155	Degradable lipid nanoparticles with predictable in vivo siRNA delivery activity. <i>Nature Communications</i> , 2014 , 5, 4277	17.4	320
154	Delivery technologies for genome editing. <i>Nature Reviews Drug Discovery</i> , 2017 , 16, 387-399	64.1	309
153	Combinatorial hydrogel library enables identification of materials that mitigate the foreign body response in primates. <i>Nature Biotechnology</i> , 2016 , 34, 345-52	44.5	302
152	Lipid Nanoparticle Assisted mRNA Delivery for Potent Cancer Immunotherapy. <i>Nano Letters</i> , 2017 , 17, 1326-1335	11.5	302
151	Glucose-responsive microgels integrated with enzyme nanocapsules for closed-loop insulin delivery. <i>ACS Nano</i> , 2013 , 7, 6758-66	16.7	300
150	Structure/property studies of polymeric gene delivery using a library of poly(beta-amino esters). <i>Molecular Therapy</i> , 2005 , 11, 426-34	11.7	287
149	Optimization of Lipid Nanoparticle Formulations for mRNA Delivery in Vivo with Fractional Factorial and Definitive Screening Designs. <i>Nano Letters</i> , 2015 , 15, 7300-6	11.5	279
148	Lipopeptide nanoparticles for potent and selective siRNA delivery in rodents and nonhuman primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3955-60	11.5	275
147	Structure-guided chemical modification of guide RNA enables potent non-viral in vivo genome editing. <i>Nature Biotechnology</i> , 2017 , 35, 1179-1187	44.5	255
146	Combinatorial discovery of polymers resistant to bacterial attachment. <i>Nature Biotechnology</i> , 2012 , 30, 868-875	44.5	254
145	Materials science. Smart biomaterials. <i>Science</i> , 2004 , 305, 1923-4	33.3	254

144	Biomaterial microarrays: rapid, microscale screening of polymer-cell interaction. <i>Biomaterials</i> , 2005 , 26, 4892-7	15.6	252
143	A polymer library approach to suicide gene therapy for cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 16028-33	11.5	235
142	Dendrimer-RNA nanoparticles generate protective immunity against lethal Ebola, H1N1 influenza, and <i>Toxoplasma gondii</i> challenges with a single dose. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4133-42	11.5	233
141	Adenovirus-Mediated Somatic Genome Editing of Pten by CRISPR/Cas9 in Mouse Liver in Spite of Cas9-Specific Immune Responses. <i>Human Gene Therapy</i> , 2015 , 26, 432-42	4.8	226
140	Accelerating the Translation of Nanomaterials in Biomedicine. <i>ACS Nano</i> , 2015 , 9, 6644-54	16.7	220
139	Proliferation and Recruitment Contribute to Myocardial Macrophage Expansion in Chronic Heart Failure. <i>Circulation Research</i> , 2016 , 119, 853-64	15.7	210
138	Rapid discovery of potent siRNA-containing lipid nanoparticles enabled by controlled microfluidic formulation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6948-51	16.4	201
137	Nanoparticle-based drug delivery systems: a commercial and regulatory outlook as the field matures. <i>Expert Opinion on Drug Delivery</i> , 2017 , 14, 851-864	8	200
136	Delivery of mRNA vaccines with heterocyclic lipids increases anti-tumor efficacy by STING-mediated immune cell activation. <i>Nature Biotechnology</i> , 2019 , 37, 1174-1185	44.5	200
135	Materials for non-viral intracellular delivery of messenger RNA therapeutics. <i>Journal of Controlled Release</i> , 2016 , 240, 227-234	11.7	196
134	In vivo silencing of the transcription factor IRF5 reprograms the macrophage phenotype and improves infarct healing. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 1556-66	15.1	187
133	Small RNA combination therapy for lung cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E3553-61	11.5	177
132	In vivo compatibility of graphene oxide with differing oxidation states. <i>ACS Nano</i> , 2015 , 9, 3866-74	16.7	172
131	Sustained antigen availability during germinal center initiation enhances antibody responses to vaccination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E6639-E6648	11.5	164
130	Strategies, design, and chemistry in siRNA delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2019 , 144, 133-147	18.5	163
129	Glucose-responsive insulin activity by covalent modification with aliphatic phenylboronic acid conjugates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2401-6	11.5	150
128	Polymer-Lipid Nanoparticles for Systemic Delivery of mRNA to the Lungs. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13808-13812	16.4	150
127	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	19	145

126	An elastic second skin. <i>Nature Materials</i> , 2016 , 15, 911-8	27	144
125	Partial DNA-guided Cas9 enables genome editing with reduced off-target activity. <i>Nature Chemical Biology</i> , 2018 , 14, 311-316	11.7	140
124	Silencing or stimulation? siRNA delivery and the immune system. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2011 , 2, 77-96	8.9	137
123	Surface-engineered substrates for improved human pluripotent stem cell culture under fully defined conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 18714-9	11.5	128
122	Materials for stem cell factories of the future. <i>Nature Materials</i> , 2014 , 13, 570-9	27	126
121	Bioinspired Alkenyl Amino Alcohol Ionizable Lipid Materials for Highly Potent In Vivo mRNA Delivery. <i>Advanced Materials</i> , 2016 , 28, 2939-43	24	125
120	RNAi targeting multiple cell adhesion molecules reduces immune cell recruitment and vascular inflammation after myocardial infarction. <i>Science Translational Medicine</i> , 2016 , 8, 342ra80	17.5	123
119	Core-shell hydrogel microcapsules for improved islets encapsulation. <i>Advanced Healthcare Materials</i> , 2013 , 2, 667-72	10.1	118
118	Inhaled Nanoformulated mRNA Polyplexes for Protein Production in Lung Epithelium. <i>Advanced Materials</i> , 2019 , 31, e1805116	24	118
117	RNA Circularization Diminishes Immunogenicity and Can Extend Translation Duration In Vivo. <i>Molecular Cell</i> , 2019 , 74, 508-520.e4	17.6	111
116	Effect of molecular weight of amine end-modified poly(ϵ -amino ester)s on gene delivery efficiency and toxicity. <i>Biomaterials</i> , 2012 , 33, 3594-603	15.6	107
115	Synthesis and Biological Evaluation of Ionizable Lipid Materials for the In Vivo Delivery of Messenger RNA to B Lymphocytes. <i>Advanced Materials</i> , 2017 , 29, 1606944	24	105
114	Macrophages retain hematopoietic stem cells in the spleen via VCAM-1. <i>Journal of Experimental Medicine</i> , 2015 , 212, 497-512	16.6	104
113	Rapid Optimization of Gene Delivery by Parallel End-modification of Poly(ϵ -amino ester)s. <i>Molecular Therapy</i> , 2007 , 15, 1306-1312	11.7	103
112	Barcoded nanoparticles for high throughput in vivo discovery of targeted therapeutics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2060-2065	11.5	101
111	Multiparametric approach for the evaluation of lipid nanoparticles for siRNA delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12881-6	11.5	101
110	Systemic RNAi-mediated Gene Silencing in Nonhuman Primate and Rodent Myeloid Cells. <i>Molecular Therapy - Nucleic Acids</i> , 2012 , 1, e4	10.7	100
109	Genetic and hypoxic alterations of the microRNA-210-ISCU1/2 axis promote iron-sulfur deficiency and pulmonary hypertension. <i>EMBO Molecular Medicine</i> , 2015 , 7, 695-713	12	96

108	Small-Molecule End-Groups of Linear Polymer Determine Cell-type Gene-Delivery Efficacy. <i>Advanced Materials</i> , 2009 , 21, 4947-4951	24	96
107	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	19	94
106	Degradable terpolymers with alkyl side chains demonstrate enhanced gene delivery potency and nanoparticle stability. <i>Advanced Materials</i> , 2013 , 25, 1487-93	24	93
105	Dendrimer-Inspired Nanomaterials for the in Vivo Delivery of siRNA to Lung Vasculature. <i>Nano Letters</i> , 2015 , 15, 3008-16	11.5	90
104	Ly6Clo monocytes drive immunosuppression and confer resistance to anti-VEGFR2 cancer therapy. <i>Journal of Clinical Investigation</i> , 2017 , 127, 3039-3051	15.9	87
103	Biomanufacturing for clinically advanced cell therapies. <i>Nature Biomedical Engineering</i> , 2018 , 2, 362-376	19	86
102	Efficacy and immunogenicity of unmodified and pseudouridine-modified mRNA delivered systemically with lipid nanoparticles in vivo. <i>Biomaterials</i> , 2016 , 109, 78-87	15.6	86
101	Adenine base editing in an adult mouse model of tyrosinaemia. <i>Nature Biomedical Engineering</i> , 2020 , 4, 125-130	19	86
100	Comprehensive proteomic characterization of stem cell-derived extracellular matrices. <i>Biomaterials</i> , 2017 , 128, 147-159	15.6	83
99	CRISPR-Cas: a tool for cancer research and therapeutics. <i>Nature Reviews Clinical Oncology</i> , 2019 , 16, 281-294	19.5	83
98	Poly(glycoamidoamine) Brushes Formulated Nanomaterials for Systemic siRNA and mRNA Delivery in Vivo. <i>Nano Letters</i> , 2016 , 16, 842-8	11.5	82
97	In vitro-in vivo translation of lipid nanoparticles for hepatocellular siRNA delivery. <i>ACS Nano</i> , 2012 , 6, 6922-9	16.7	79
96	Enhanced function of immuno-isolated islets in diabetes therapy by co-encapsulation with an anti-inflammatory drug. <i>Biomaterials</i> , 2013 , 34, 5792-801	15.6	79
95	Endothelial TGF- β signalling drives vascular inflammation and atherosclerosis. <i>Nature Metabolism</i> , 2019 , 1, 912-926	14.6	78
94	Multiplexed RNAi therapy against brain tumor-initiating cells via lipopolymeric nanoparticle infusion delays glioblastoma progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E6147-E6156	11.5	75
93	Optimization of a Degradable Polymer-Lipid Nanoparticle for Potent Systemic Delivery of mRNA to the Lung Endothelium and Immune Cells. <i>Nano Letters</i> , 2018 , 18, 6449-6454	11.5	74
92	Glucose-responsive insulin by molecular and physical design. <i>Nature Chemistry</i> , 2017 , 9, 937-943	17.6	72
91	Discovery of novel materials with broad resistance to bacterial attachment using combinatorial polymer microarrays. <i>Advanced Materials</i> , 2013 , 25, 2542-7	24	72

90	Silencing of CCR2 in myocarditis. <i>European Heart Journal</i> , 2015 , 36, 1478-88	9.5	70
89	Cell-Cycle-Targeting MicroRNAs as Therapeutic Tools against Refractory Cancers. <i>Cancer Cell</i> , 2017 , 31, 576-590.e8	24.3	68
88	Exploiting Electrostatic Interactions in Polymer Nanoparticle Hydrogels. <i>ACS Macro Letters</i> , 2015 , 4, 848-852	6.6	68
87	Gene delivery properties of end-modified poly(beta-amino ester)s. <i>Bioconjugate Chemistry</i> , 2007 , 18, 1887-96	6.3	67
86	Uremic Toxin Indoxyl Sulfate Promotes Proinflammatory Macrophage Activation Via the Interplay of OATP2B1 and DLL4-Notch Signaling. <i>Circulation</i> , 2019 , 139, 78-96	16.7	65
85	Ultrasound-mediated gastrointestinal drug delivery. <i>Science Translational Medicine</i> , 2015 , 7, 310ra168	17.5	64
84	Neutrophil Responses to Sterile Implant Materials. <i>PLoS ONE</i> , 2015 , 10, e0137550	3.7	64
83	Discovery of a Novel Polymer for Human Pluripotent Stem Cell Expansion and Multilineage Differentiation. <i>Advanced Materials</i> , 2015 , 27, 4006-12	24	64
82	Genome-Wide CRISPR Screen Identifies Regulators of Mitogen-Activated Protein Kinase as Suppressors of Liver Tumors in Mice. <i>Gastroenterology</i> , 2017 , 152, 1161-1173.e1	13.3	63
81	Glucose-Responsive Nanoparticles for Rapid and Extended Self-Regulated Insulin Delivery. <i>ACS Nano</i> , 2020 , 14, 488-497	16.7	63
80	Smart approaches to glucose-responsive drug delivery. <i>Journal of Drug Targeting</i> , 2015 , 23, 651-5	5.4	62
79	Precision cancer mouse models through genome editing with CRISPR-Cas9. <i>Genome Medicine</i> , 2015 , 7, 53	14.4	61
78	Synergistic lipid compositions for albumin receptor mediated delivery of mRNA to the liver. <i>Nature Communications</i> , 2020 , 11, 2424	17.4	61
77	Microfluidic Fabrication of Colloidal Nanomaterials-Encapsulated Microcapsules for Biomolecular Sensing. <i>Nano Letters</i> , 2017 , 17, 2015-2020	11.5	60
76	Ionizable amphiphilic dendrimer-based nanomaterials with alkyl-chain-substituted amines for tunable siRNA delivery to the liver endothelium in vivo. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14397-401	16.4	59
75	Nanoparticle-formulated siRNA targeting integrins inhibits hepatocellular carcinoma progression in mice. <i>Nature Communications</i> , 2014 , 5, 3869	17.4	57
74	Myocardial Delivery of Lipidoid Nanoparticle Carrying modRNA Induces Rapid and Transient Expression. <i>Molecular Therapy</i> , 2016 , 24, 66-75	11.7	56
73	High throughput discovery of new fouling-resistant surfaces. <i>Journal of Materials Chemistry</i> , 2011 , 21, 693-704		56

72	Photo-response behavior of electrospun nanofibers based on spiropyran-cyclodextrin modified polymer. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9910-9917		55
71	Knockdown and knockout of α -integrin in hepatocytes impairs liver regeneration through inhibition of growth factor signalling. <i>Nature Communications</i> , 2014 , 5, 3862	17.4	51
70	Endothelial siRNA delivery in nonhuman primates using ionizable low-molecular weight polymeric nanoparticles. <i>Science Advances</i> , 2018 , 4, eaar8409	14.3	51
69	Engineered 3D-printed artificial axons. <i>Scientific Reports</i> , 2018 , 8, 478	4.9	50
68	Ionizable Amino-Polyesters Synthesized via Ring Opening Polymerization of Tertiary Amino-Alcohols for Tissue Selective mRNA Delivery. <i>Advanced Materials</i> , 2018 , 30, e1801151	24	50
67	mRNA Delivery for Therapeutic Anti-HER2 Antibody Expression In Vivo. <i>Molecular Therapy</i> , 2019 , 27, 1415-1423	11.7	49
66	Bacterial attachment to polymeric materials correlates with molecular flexibility and hydrophilicity. <i>Advanced Healthcare Materials</i> , 2015 , 4, 695-701	10.1	48
65	Engineered PLGA microparticles for long-term, pulsatile release of STING agonist for cancer immunotherapy. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	47
64	Report of the Key Opinion Leaders Meeting on Stem Cell-derived Beta Cells. <i>Transplantation</i> , 2018 , 102, 1223-1229	1.8	47
63	Semi-Automated Synthesis and Screening of a Large Library of Degradable Cationic Polymers for Gene Delivery. <i>Angewandte Chemie</i> , 2003 , 115, 3261-3266	3.6	43
62	A defined synthetic substrate for serum-free culture of human stem cell derived cardiomyocytes with improved functional maturity identified using combinatorial materials microarrays. <i>Biomaterials</i> , 2015 , 61, 257-65	15.6	42
61	Rapid optimization of gene delivery by parallel end-modification of poly(beta-amino ester)s. <i>Molecular Therapy</i> , 2007 , 15, 1306-12	11.7	40
60	MicroRNA regulation of endothelial TRESX1 reprograms the tumour microenvironment. <i>Nature Communications</i> , 2016 , 7, 13597	17.4	39
59	Sequence-Defined Oligomers from Hydroxyproline Building Blocks for Parallel Synthesis Applications. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9529-33	16.4	39
58	Biomaterials for Personalized Cell Therapy. <i>Advanced Materials</i> , 2020 , 32, e1902005	24	39
57	Macrophage Notch Ligand Delta-Like 4 Promotes Vein Graft Lesion Development: Implications for the Treatment of Vein Graft Failure. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 2343-2353	9.4	38
56	Customizable Lipid Nanoparticle Materials for the Delivery of siRNAs and mRNAs. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13582-13586	16.4	38
55	Ex vivo cytosolic delivery of functional macromolecules to immune cells. <i>PLoS ONE</i> , 2015 , 10, e0118803	3.7	38

54	A retrievable implant for the long-term encapsulation and survival of therapeutic xenogeneic cells. <i>Nature Biomedical Engineering</i> , 2020 , 4, 814-826	19	37
53	Modelling human embryoid body cell adhesion to a combinatorial library of polymer surfaces. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20902-20906		37
52	Spatial Control of Gene Expression by Nanocarriers Using Heparin Masking and Ultrasound-Targeted Microbubble Destruction. <i>ACS Nano</i> , 2016 , 10, 7267-78	16.7	36
51	Ultrasound-Mediated Delivery of RNA to Colonic Mucosa of Live Mice. <i>Gastroenterology</i> , 2017 , 152, 1151-1160	11.3	35
50	Rapid, Single-Cell Analysis and Discovery of Vectored mRNA Transfection In Vivo with a loxP-Flanked tdTomato Reporter Mouse. <i>Molecular Therapy - Nucleic Acids</i> , 2018 , 10, 55-63	10.7	34
49	Polymer-lipid Nanoparticles for Systemic Delivery of mRNA to the Lungs. <i>Angewandte Chemie</i> , 2016 , 128, 14012-14016	3.6	34
48	Poly(ε-amino ester)-co-poly(caprolactone) Terpolymers as Nonviral Vectors for mRNA Delivery In Vitro and In Vivo. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800249	10.1	34
47	High throughput screening for biomaterials discovery. <i>Journal of Controlled Release</i> , 2014 , 190, 115-26	11.7	32
46	Chemical modifications of adenine base editor mRNA and guide RNA expand its application scope. <i>Nature Communications</i> , 2020 , 11, 1979	17.4	31
45	Loss of β-tatenin elicits a cholestatic response and impairs liver regeneration. <i>Scientific Reports</i> , 2014 , 4, 6835	4.9	31
44	Prediction of Broad-Spectrum Pathogen Attachment to Coating Materials for Biomedical Devices. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 139-149	9.5	30
43	Nanoparticle-encapsulated siRNAs for gene silencing in the haematopoietic stem-cell niche. <i>Nature Biomedical Engineering</i> , 2020 , 4, 1076-1089	19	29
42	BOLA (Bola Family Member 3) Deficiency Controls Endothelial Metabolism and Glycine Homeostasis in Pulmonary Hypertension. <i>Circulation</i> , 2019 , 139, 2238-2255	16.7	28
41	Stem cell factor gene transfer improves cardiac function after myocardial infarction in swine. <i>Circulation: Heart Failure</i> , 2015 , 8, 167-74	7.6	27
40	Delivery of Tissue-Targeted Scalpels: Opportunities and Challenges for CRISPR/Cas-Based Genome Editing. <i>ACS Nano</i> , 2020 , 14, 9243-9262	16.7	27
39	Nanotechnology for in vivo targeted siRNA delivery. <i>Advances in Genetics</i> , 2014 , 88, 37-69	3.3	24
38	Nucleic acid-mediated intracellular protein delivery by lipid-like nanoparticles. <i>Biomaterials</i> , 2014 , 35, 6454-61	15.6	23
37	The clinical progress of mRNA vaccines and immunotherapies.. <i>Nature Biotechnology</i> , 2022 ,	44.5	22

36	S100A9-RAGE Axis Accelerates Formation of Macrophage-Mediated Extracellular Vesicle Microcalcification in Diabetes Mellitus. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020 , 40, 1838-1853	9.4	21
35	Polymers with hydro-responsive topography identified using high throughput AFM of an acrylate microarray. <i>Soft Matter</i> , 2011 , 7, 7194-7197	3.6	21
34	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , 2021 , 592, 195-204	50.4	21
33	Sequence-Defined Oligomers from Hydroxyproline Building Blocks for Parallel Synthesis Applications. <i>Angewandte Chemie</i> , 2016 , 128, 9681-9685	3.6	18
32	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	11.5	17
31	Application of Targeted Molecular and Material Property Optimization to Bacterial Attachment-Resistant (Meth)acrylate Polymers. <i>Biomacromolecules</i> , 2016 , 17, 2830-8	6.9	17
30	Poly(E-amino ester)s for DNA delivery. <i>Israel Journal of Chemistry</i> , 2005 , 45, 477-485	3.4	16
29	MicroRNA regulation of the MRN complex impacts DNA damage, cellular senescence, and angiogenic signaling. <i>Cell Death and Disease</i> , 2018 , 9, 632	9.8	15
28	Customizable Lipid Nanoparticle Materials for the Delivery of siRNAs and mRNAs. <i>Angewandte Chemie</i> , 2018 , 130, 13770-13774	3.6	14
27	Poly(Limonene Thioether) Scaffold for Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2016 , 5, 813-216.1	21	12
26	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	24	11
25	Large-Scale Quantitative Proteomics Identifies the Ubiquitin Ligase Nedd4-1 as an Essential Regulator of Liver Regeneration. <i>Developmental Cell</i> , 2017 , 42, 616-625.e8	10.2	10
24	Ionizable Amphiphilic Dendrimer-Based Nanomaterials with Alkyl-Chain-Substituted Amines for Tunable siRNA Delivery to the Liver Endothelium In Vivo. <i>Angewandte Chemie</i> , 2014 , 126, 14625-14629	3.6	10
23	Microgel encapsulated nanoparticles for glucose-responsive insulin delivery. <i>Biomaterials</i> , 2021 , 267, 120458	15.6	10
22	Downregulation of the Arg/N-degron Pathway Sensitizes Cancer Cells to Chemotherapy In Vivo. <i>Molecular Therapy</i> , 2020 , 28, 1092-1104	11.7	9
21	RNAi-nanoparticulate manipulation of gene expression as a new functional genomics tool in the liver. <i>Journal of Hepatology</i> , 2016 , 64, 899-907	13.4	9
20	In Vivo RNAi-Mediated eIF3m Knockdown Affects Ribosome Biogenesis and Transcription but Has Limited Impact on mRNA-Specific Translation. <i>Molecular Therapy - Nucleic Acids</i> , 2020 , 19, 252-266	10.7	9
19	Lipidoid mRNA Nanoparticles for Myocardial Delivery in Rodents. <i>Methods in Molecular Biology</i> , 2017 , 1521, 153-166	1.4	8

18	Engineering Synthetically Modified Insulin for Glucose-Responsive Diabetes Therapy. <i>Expert Review of Endocrinology and Metabolism</i> , 2015 , 10, 483-489	4.1	8
17	Frataxin deficiency promotes endothelial senescence in pulmonary hypertension. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	8
16	Frontline Science: Splenic progenitors aid in maintaining high neutrophil numbers at sites of sterile chronic inflammation. <i>Journal of Leukocyte Biology</i> , 2016 , 100, 253-60	6.5	7
15	Chemical Tuning of Fibers Drawn from Extensible Hyaluronic Acid Networks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19715-19721	16.4	7
14	Systemic delivery of mRNA and DNA to the lung using polymer-lipid nanoparticles. <i>Biomaterials</i> , 2021 , 275, 120966	15.6	6
13	Cytosolic delivery of siRNA by ultra-high affinity dsRNA binding proteins. <i>Nucleic Acids Research</i> , 2017 , 45, 7602-7614	20.1	5
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