James E Dahlman

List of Publications by Year
in descending order

51 papers	6,963 citations	126708 33 h-index	197535 49 g-index
51 all docs	51 docs citations	51 times ranked	11168 citing authors

#	Article	IF	Citations
1	Non-liver mRNA Delivery. Accounts of Chemical Research, 2022, 55, 13-23.	7.6	61
2	Drug delivery systems for RNA therapeutics. Nature Reviews Genetics, 2022, 23, 265-280.	7.7	417
3	Species-dependent in vivo mRNA delivery and cellular responses to nanoparticles. Nature Nanotechnology, 2022, 17, 310-318.	15.6	56
4	Augmented lipid-nanoparticle-mediated in vivo genome editing in the lungs and spleen by disrupting Cas9 activity in the liver. Nature Biomedical Engineering, 2022, 6, 157-167.	11.6	35
5	Universal Barcoding Predicts <i>In Vivo</i> ApoE-Independent Lipid Nanoparticle Delivery. Nano Letters, 2022, 22, 4822-4830.	4.5	16
6	Nanoparticle single-cell multiomic readouts reveal that cell heterogeneity influences lipid nanoparticle-mediated messenger RNA delivery. Nature Nanotechnology, 2022, 17, 871-879.	15.6	31
7	Voices of biotech research. Nature Biotechnology, 2021, 39, 281-286.	9.4	3
8	Therapeutic RNA Delivery for COVID and Other Diseases. Advanced Healthcare Materials, 2021, 10, e2002022.	3.9	31
9	The NIH Somatic Cell Genome Editing program. Nature, 2021, 592, 195-204.	13.7	84
10	Frataxin deficiency promotes endothelial senescence in pulmonary hypertension. Journal of Clinical Investigation, 2021, 131, .	3.9	38
11	Optimization of lipid nanoparticles for the delivery of nebulized therapeutic mRNA to the lungs. Nature Biomedical Engineering, 2021, 5, 1059-1068.	11.6	165
12	Dataset of bond enthalpies (ÎµAA, ÎµAB, ÎµBB) in 975 binary intermetallic compounds. Data in Brief, 2021, 39, 107652.	0.5	0
13	Mild Innate Immune Activation Overrides Efficient Nanoparticleâ€Mediated RNA Delivery. Advanced Materials, 2020, 32, e1904905.	11.1	84
14	Increased PIP3 activity blocks nanoparticle mRNA delivery. Science Advances, 2020, 6, eaba5672.	4.7	16
15	Treating Cystic Fibrosis with mRNA and CRISPR. Human Gene Therapy, 2020, 31, 940-955.	1.4	35
16	Nanoparticles containing constrained phospholipids deliver <scp>mRNA</scp> to liver immune cells in vivo without targeting ligands. Bioengineering and Translational Medicine, 2020, 5, e10161.	3.9	36
17	Using Large Datasets to Understand Nanotechnology. Advanced Materials, 2019, 31, e1902798.	11.1	45
18	Ligand Conjugated Multimeric siRNAs Enable Enhanced Uptake and Multiplexed Gene Silencing. Nucleic Acid Therapeutics, 2019, 29, 231-244.	2.0	11

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19	Constrained Nanoparticles Deliver siRNA and sgRNA to T Cells In Vivo without Targeting Ligands. Advanced Materials, 2019, 31, e1902251.	11.1	99
20	Endothelial TGF-Î² signalling drives vascular inflammation and atherosclerosis. Nature Metabolism, 2019, 1, 912-926.	5.1	172
21	Cell Subtypes Within the Liver Microenvironment Differentially Interact with Lipid Nanoparticles. Cellular and Molecular Bioengineering, 2019, 12, 389-397.	1.0	25
22	BOLA (BolA Family Member 3) Deficiency Controls Endothelial Metabolism and Glycine Homeostasis in Pulmonary Hypertension. Circulation, 2019, 139, 2238-2255.	1.6	54
23	Nanoparticles Containing Oxidized Cholesterol Deliver mRNA to the Liver Microenvironment at Clinically Relevant Doses. Advanced Materials, 2019, 31, e1807748.	11.1	113
24	Une vidÃ©o stockÃ©e dans lâ€™ADN. Pourlascience Fr, 2019, NÂ° 504 - octobre, 38-45.	0.0	0
25	A Direct Comparison of in Vitro and in Vivo Nucleic Acid Delivery Mediated by Hundreds of Nanoparticles Reveals a Weak Correlation. Nano Letters, 2018, 18, 2148-2157.	4.5	138
26	Inhibiting Integrin Î±5 Cytoplasmic Domain Signaling Reduces Atherosclerosis and Promotes Arteriogenesis. Journal of the American Heart Association, 2018, 7, .	1.6	25
27	High-throughput in vivo screen of functional mRNA delivery identifies nanoparticles for endothelial cell gene editing. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9944-E9952.	3.3	196
28	Editing nature: Local roots of global governance. Science, 2018, 362, 527-529.	6.0	67
29	Nanoparticles That Deliver RNA to Bone Marrow Identified by in Vivo Directed Evolution. Journal of the American Chemical Society, 2018, 140, 17095-17105.	6.6	80
30	Barcoding chemical modifications into nucleic acids improves drug stability <i>in vivo</i>. Journal of Materials Chemistry B, 2018, 6, 7197-7203.	2.9	17
31	Modifying a Commonly Expressed Endocytic Receptor Retargets Nanoparticles in Vivo. Nano Letters, 2018, 18, 7590-7600.	4.5	37
32	Analyzing 2000 <i>in Vivo</i> Drug Delivery Data Points Reveals Cholesterol Structure Impacts Nanoparticle Delivery. ACS Nano, 2018, 12, 8341-8349.	7.3	93
33	Testing thousands of nanoparticles inÂvivo using DNA barcodes. Current Opinion in Biomedical Engineering, 2018, 7, 1-8.	1.8	52
34	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
35	Interaction between integrin Î±5 and PDE4D regulates endothelial inflammatory signalling. Nature Cell Biology, 2016, 18, 1043-1053.	4.6	79
36	Proliferation and Recruitment Contribute to Myocardial Macrophage Expansion in Chronic Heart Failure. Circulation Research, 2016, 119, 853-864.	2.0	318

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37	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
38	Emerging Frontiers in Drug Delivery. Journal of the American Chemical Society, 2016, 138, 704-717.	6.6	776
39	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
40	Dendrimer-Inspired Nanomaterials for the <i>in Vivo</i> Delivery of siRNA to Lung Vasculature. Nano Letters, 2015, 15, 3008-3016.	4.5	113
41	Orthogonal gene knockout and activation with a catalytically active Cas9 nuclease. Nature Biotechnology, 2015, 33, 1159-1161.	9.4	231
42	Macrophage Notch Ligand Delta-Like 4 Promotes Vein Graft Lesion Development. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2343-2353.	1.1	43
43	A lesson in communication. Nature Nanotechnology, 2014, 9, 656-656.	15.6	1
44	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
45	In vivo endothelial siRNA delivery using polymeric nanoparticles with low molecular weight. Nature Nanotechnology, 2014, 9, 648-655.	15.6	466
46	Nanotechnology for InÂvivo Targeted siRNA Delivery. Advances in Genetics, 2014, 88, 37-69.	0.8	34
47	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
48	CRISPR-Cas9 Knockin Mice for Genome Editing and Cancer Modeling. Cell, 2014, 159, 440-455.	13.5	1,566
49	Loss of Î±-catenin elicits a cholestatic response and impairs liver regeneration. Scientific Reports, 2014, 4, 6835.	1.6	36
50	Alkane-modified short polyethyleneimine for siRNA delivery. Journal of Controlled Release, 2012, 160, 172-176.	4.8	43
51	Silencing or Stimulation? siRNA Delivery and the Immune System. Annual Review of Chemical and Biomolecular Engineering, 2011, 2, 77-96.	3.3	161