

James E Dahlman

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

6,963
citations

117625

34
h-index

197818

49
g-index

51
all docs

51
docs citations

51
times ranked

11168
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-liver mRNA Delivery. <i>Accounts of Chemical Research</i> , 2022, 55, 13-23.	15.6	61
2	Drug delivery systems for RNA therapeutics. <i>Nature Reviews Genetics</i> , 2022, 23, 265-280.	16.3	417
3	Species-dependent in vivo mRNA delivery and cellular responses to nanoparticles. <i>Nature Nanotechnology</i> , 2022, 17, 310-318.	31.5	56
4	Augmented lipid-nanoparticle-mediated in vivo genome editing in the lungs and spleen by disrupting Cas9 activity in the liver. <i>Nature Biomedical Engineering</i> , 2022, 6, 157-167.	22.5	35
5	Universal Barcoding Predicts <i>In Vivo</i> ApoE-Independent Lipid Nanoparticle Delivery. <i>Nano Letters</i> , 2022, 22, 4822-4830.	9.1	16
6	Nanoparticle single-cell multiomic readouts reveal that cell heterogeneity influences lipid nanoparticle-mediated messenger RNA delivery. <i>Nature Nanotechnology</i> , 2022, 17, 871-879.	31.5	31
7	Voices of biotech research. <i>Nature Biotechnology</i> , 2021, 39, 281-286.	17.5	3
8	Therapeutic RNA Delivery for COVID and Other Diseases. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002022.	7.6	31
9	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , 2021, 592, 195-204.	27.8	84
10	Frataxin deficiency promotes endothelial senescence in pulmonary hypertension. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	38
11	Optimization of lipid nanoparticles for the delivery of nebulized therapeutic mRNA to the lungs. <i>Nature Biomedical Engineering</i> , 2021, 5, 1059-1068.	22.5	165
12	Dataset of bond enthalpies ($\hat{\mu}AA$, $\hat{\mu}AB$, $\hat{\mu}BB$) in 975 binary intermetallic compounds. <i>Data in Brief</i> , 2021, 39, 107652.	1.0	0
13	Mild Innate Immune Activation Overrides Efficient Nanoparticle-Mediated RNA Delivery. <i>Advanced Materials</i> , 2020, 32, e1904905.	21.0	84
14	Increased PIP3 activity blocks nanoparticle mRNA delivery. <i>Science Advances</i> , 2020, 6, eaba5672.	10.3	16
15	Treating Cystic Fibrosis with mRNA and CRISPR. <i>Human Gene Therapy</i> , 2020, 31, 940-955.	2.7	35
16	Nanoparticles containing constrained phospholipids deliver mRNA to liver immune cells in vivo without targeting ligands. <i>Bioengineering and Translational Medicine</i> , 2020, 5, e10161.	7.1	36
17	Using Large Datasets to Understand Nanotechnology. <i>Advanced Materials</i> , 2019, 31, e1902798.	21.0	45
18	Ligand Conjugated Multimeric siRNAs Enable Enhanced Uptake and Multiplexed Gene Silencing. <i>Nucleic Acid Therapeutics</i> , 2019, 29, 231-244.	3.6	11

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19	Constrained Nanoparticles Deliver siRNA and sgRNA to T Cells In Vivo without Targeting Ligands. <i>Advanced Materials</i> , 2019, 31, e1902251.	21.0	99
20	Endothelial TGF- β 2 signalling drives vascular inflammation and atherosclerosis. <i>Nature Metabolism</i> , 2019, 1, 912-926.	11.9	172
21	Cell Subtypes Within the Liver Microenvironment Differentially Interact with Lipid Nanoparticles. <i>Cellular and Molecular Bioengineering</i> , 2019, 12, 389-397.	2.1	25
22	BOLA (Bola Family Member 3) Deficiency Controls Endothelial Metabolism and Glycine Homeostasis in Pulmonary Hypertension. <i>Circulation</i> , 2019, 139, 2238-2255.	1.6	54
23	Nanoparticles Containing Oxidized Cholesterol Deliver mRNA to the Liver Microenvironment at Clinically Relevant Doses. <i>Advanced Materials</i> , 2019, 31, e1807748.	21.0	113
24	Une vid�e stock�e dans l'ADN. <i>Pourlascience Fr</i> , 2019, N� 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. <i>Nano Letters</i> , 2018, 18, 2148-2157.	9.1	138
26	Inhibiting Integrin β 5 Cytoplasmic Domain Signaling Reduces Atherosclerosis and Promotes Arteriogenesis. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	25
27	High-throughput in vivo screen of functional mRNA delivery identifies nanoparticles for endothelial cell gene editing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9944-E9952.	7.1	196
28	Editing nature: Local roots of global governance. <i>Science</i> , 2018, 362, 527-529.	12.6	67
29	Nanoparticles That Deliver RNA to Bone Marrow Identified by in Vivo Directed Evolution. <i>Journal of the American Chemical Society</i> , 2018, 140, 17095-17105.	13.7	80
30	Barcoding chemical modifications into nucleic acids improves drug stability <i>in vivo</i> . <i>Journal of Materials Chemistry B</i> , 2018, 6, 7197-7203.	5.8	17
31	Modifying a Commonly Expressed Endocytic Receptor Retargets Nanoparticles in Vivo. <i>Nano Letters</i> , 2018, 18, 7590-7600.	9.1	37
32	Analyzing 2000 <i>in Vivo</i> Drug Delivery Data Points Reveals Cholesterol Structure Impacts Nanoparticle Delivery. <i>ACS Nano</i> , 2018, 12, 8341-8349.	14.6	93
33	Testing thousands of nanoparticles <i>in vivo</i> using DNA barcodes. <i>Current Opinion in Biomedical Engineering</i> , 2018, 7, 1-8.	3.4	52
34	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
35	Interaction between integrin β 5 and PDE4D regulates endothelial inflammatory signalling. <i>Nature Cell Biology</i> , 2016, 18, 1043-1053.	10.3	79
36	Proliferation and Recruitment Contribute to Myocardial Macrophage Expansion in Chronic Heart Failure. <i>Circulation Research</i> , 2016, 119, 853-864.	4.5	318

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37	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
38	Emerging Frontiers in Drug Delivery. <i>Journal of the American Chemical Society</i> , 2016, 138, 704-717.	13.7	776
39	Genetic and hypoxic alterations of the micro RNA μ ISCU 1/2 axis promote iron sulfur deficiency and pulmonary hypertension. <i>EMBO Molecular Medicine</i> , 2015, 7, 695-713.	6.9	120
40	Dendrimer-Inspired Nanomaterials for the <i>in Vivo</i> Delivery of siRNA to Lung Vasculature. <i>Nano Letters</i> , 2015, 15, 3008-3016.	9.1	113
41	Orthogonal gene knockout and activation with a catalytically active Cas9 nuclease. <i>Nature Biotechnology</i> , 2015, 33, 1159-1161.	17.5	231
42	Macrophage Notch Ligand Delta-Like 4 Promotes Vein Graft Lesion Development. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2343-2353.	2.4	43
43	A lesson in communication. <i>Nature Nanotechnology</i> , 2014, 9, 656-656.	31.5	1
44	Ionizable Amphiphilic Dendrimer-Based Nanomaterials with Alkyl-Substituted Amines for Tunable siRNA Delivery to the Liver Endothelium <i>In Vivo</i> . <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14397-14401.	13.8	80
45	In vivo endothelial siRNA delivery using polymeric nanoparticles with low molecular weight. <i>Nature Nanotechnology</i> , 2014, 9, 648-655.	31.5	466
46	Nanotechnology for <i>In Vivo</i> Targeted siRNA Delivery. <i>Advances in Genetics</i> , 2014, 88, 37-69.	1.8	34
47	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.	7.1	210
48	CRISPR-Cas9 Knockin Mice for Genome Editing and Cancer Modeling. <i>Cell</i> , 2014, 159, 440-455.	28.9	1,566
49	Loss of β -catenin elicits a cholestatic response and impairs liver regeneration. <i>Scientific Reports</i> , 2014, 4, 6835.	3.3	36
50	Alkane-modified short polyethyleneimine for siRNA delivery. <i>Journal of Controlled Release</i> , 2012, 160, 172-176.	9.9	43
51	Silencing or Stimulation? siRNA Delivery and the Immune System. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2011, 2, 77-96.	6.8	161