

James E Dahlman

List of Publications by Year in descending order

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Version: 2024-02-01

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	CRISPR-Cas9 Knockin Mice for Genome Editing and Cancer Modeling. <i>Cell</i> , 2014, 159, 440-455.	13.5	1,566
2	Emerging Frontiers in Drug Delivery. <i>Journal of the American Chemical Society</i> , 2016, 138, 704-717.	6.6	776
3	In vivo endothelial siRNA delivery using polymeric nanoparticles with low molecular weight. <i>Nature Nanotechnology</i> , 2014, 9, 648-655.	15.6	466
4	Drug delivery systems for RNA therapeutics. <i>Nature Reviews Genetics</i> , 2022, 23, 265-280.	7.7	417
5	Proliferation and Recruitment Contribute to Myocardial Macrophage Expansion in Chronic Heart Failure. <i>Circulation Research</i> , 2016, 119, 853-864.	2.0	318
6	Orthogonal gene knockout and activation with a catalytically active Cas9 nuclease. <i>Nature Biotechnology</i> , 2015, 33, 1159-1161.	9.4	231
7	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.	3.3	210
8	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.	3.3	196
9	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.	3.3	185
10	Endothelial TGF- β 2 signalling drives vascular inflammation and atherosclerosis. <i>Nature Metabolism</i> , 2019, 1, 912-926.	5.1	172
11	RNAi targeting multiple cell adhesion molecules reduces immune cell recruitment and vascular inflammation after myocardial infarction. <i>Science Translational Medicine</i> , 2016, 8, 342ra80.	5.8	169
12	Optimization of lipid nanoparticles for the delivery of nebulized therapeutic mRNA to the lungs. <i>Nature Biomedical Engineering</i> , 2021, 5, 1059-1068.	11.6	165
13	Silencing or Stimulation? siRNA Delivery and the Immune System. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2011, 2, 77-96.	3.3	161
14	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.	4.5	138
15	Genetic and hypoxic alterations of the micro RNA β -10 β -ISCU β 2 axis promote iron-sulfur deficiency and pulmonary hypertension. <i>EMBO Molecular Medicine</i> , 2015, 7, 695-713.	3.3	120
16	Dendrimer-Inspired Nanomaterials for the <i>In Vivo</i> Delivery of siRNA to Lung Vasculature. <i>Nano Letters</i> , 2015, 15, 3008-3016.	4.5	113
17	Nanoparticles Containing Oxidized Cholesterol Deliver mRNA to the Liver Microenvironment at Clinically Relevant Doses. <i>Advanced Materials</i> , 2019, 31, e1807748.	11.1	113
18	Constrained Nanoparticles Deliver siRNA and sgRNA to T Cells In Vivo without Targeting Ligands. <i>Advanced Materials</i> , 2019, 31, e1902251.	11.1	99

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19	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
20	Mild Innate Immune Activation Overrides Efficient Nanoparticle-Mediated RNA Delivery. Advanced Materials, 2020, 32, e1904905.	11.1	84
21	The NIH Somatic Cell Genome Editing program. Nature, 2021, 592, 195-204.	13.7	84
22	Ionizable Amphiphilic Dendrimer-Based Nanomaterials with Alkyl-Chain-Substituted Amines for Tunable siRNA Delivery to the Liver Endothelium <i>In Vivo</i> . Angewandte Chemie - International Edition, 2014, 53, 14397-14401.	7.2	80
23	Nanoparticles That Deliver RNA to Bone Marrow Identified by <i>in Vivo</i> Directed Evolution. Journal of the American Chemical Society, 2018, 140, 17095-17105.	6.6	80
24	Interaction between integrin $\alpha 5$ and PDE4D regulates endothelial inflammatory signalling. Nature Cell Biology, 2016, 18, 1043-1053.	4.6	79
25	Editing nature: Local roots of global governance. Science, 2018, 362, 527-529.	6.0	67
26	Non-liver mRNA Delivery. Accounts of Chemical Research, 2022, 55, 13-23.	7.6	61
27	Species-dependent <i>in vivo</i> mRNA delivery and cellular responses to nanoparticles. Nature Nanotechnology, 2022, 17, 310-318.	15.6	56
28	BOLA (Bola Family Member 3) Deficiency Controls Endothelial Metabolism and Glycine Homeostasis in Pulmonary Hypertension. Circulation, 2019, 139, 2238-2255.	1.6	54
29	Testing thousands of nanoparticles <i>in vivo</i> using DNA barcodes. Current Opinion in Biomedical Engineering, 2018, 7, 1-8.	1.8	52
30	Using Large Datasets to Understand Nanotechnology. Advanced Materials, 2019, 31, e1902798.	11.1	45
31	Alkane-modified short polyethyleneimine for siRNA delivery. Journal of Controlled Release, 2012, 160, 172-176.	4.8	43
32	Macrophage Notch Ligand Delta-Like 4 Promotes Vein Graft Lesion Development. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2343-2353.	1.1	43
33	Frataxin deficiency promotes endothelial senescence in pulmonary hypertension. Journal of Clinical Investigation, 2021, 131, .	3.9	38
34	Modifying a Commonly Expressed Endocytic Receptor Retargets Nanoparticles <i>In Vivo</i> . Nano Letters, 2018, 18, 7590-7600.	4.5	37
35	Loss of β -catenin elicits a cholestatic response and impairs liver regeneration. Scientific Reports, 2014, 4, 6835.	1.6	36
36	Nanoparticles containing constrained phospholipids deliver mRNA to liver immune cells <i>in vivo</i> without targeting ligands. Bioengineering and Translational Medicine, 2020, 5, e10161.	3.9	36

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37	Treating Cystic Fibrosis with mRNA and CRISPR. <i>Human Gene Therapy</i> , 2020, 31, 940-955.	1.4	35
38	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.	11.6	35
39	Nanotechnology for In Vivo Targeted siRNA Delivery. <i>Advances in Genetics</i> , 2014, 88, 37-69.	0.8	34
40	Therapeutic RNA Delivery for COVID and Other Diseases. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002022.	3.9	31
41	Nanoparticle single-cell multiomic readouts reveal that cell heterogeneity influences lipid nanoparticle-mediated messenger RNA delivery. <i>Nature Nanotechnology</i> , 2022, 17, 871-879.	15.6	31
42	Inhibiting Integrin $\alpha 5$ Cytoplasmic Domain Signaling Reduces Atherosclerosis and Promotes Arteriogenesis. <i>Journal of the American Heart Association</i> , 2018, 7, .	1.6	25
43	Cell Subtypes Within the Liver Microenvironment Differentially Interact with Lipid Nanoparticles. <i>Cellular and Molecular Bioengineering</i> , 2019, 12, 389-397.	1.0	25
44	Barcoding chemical modifications into nucleic acids improves drug stability <i>in vivo</i> . <i>Journal of Materials Chemistry B</i> , 2018, 6, 7197-7203.	2.9	17
45	Increased PIP3 activity blocks nanoparticle mRNA delivery. <i>Science Advances</i> , 2020, 6, eaba5672.	4.7	16
46	Universal Barcoding Predicts <i>In Vivo</i> ApoE-Independent Lipid Nanoparticle Delivery. <i>Nano Letters</i> , 2022, 22, 4822-4830.	4.5	16
47	Ligand Conjugated Multimeric siRNAs Enable Enhanced Uptake and Multiplexed Gene Silencing. <i>Nucleic Acid Therapeutics</i> , 2019, 29, 231-244.	2.0	11
48	Voices of biotech research. <i>Nature Biotechnology</i> , 2021, 39, 281-286.	9.4	3
49	A lesson in communication. <i>Nature Nanotechnology</i> , 2014, 9, 656-656.	15.6	1
50	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.	0.5	0
51	Une vidéo stockée dans l'ADN. <i>Pour la science Fr</i> , 2019, N° 504 - octobre, 38-45.	0.0	0