

Kathryn A Whitehead

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

8,888
citations

136950

32
h-index

168389

53
g-index

65
all docs

65
docs citations

65
times ranked

10681
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term daily oral administration of intestinal permeation enhancers is safe and effective in mice. <i>Bioengineering and Translational Medicine</i> , 2023, 8, .	7.1	3
2	Lipid nanoparticle chemistry determines how nucleoside base modifications alter mRNA delivery. <i>Journal of Controlled Release</i> , 2022, 341, 206-214.	9.9	27
3	Intestinal permeation enhancers enable oral delivery of macromolecules up to 70 kDa in size. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2022, 170, 70-76.	4.3	14
4	The replacement of helper lipids with charged alternatives in lipid nanoparticles facilitates targeted mRNA delivery to the spleen and lungs. <i>Journal of Controlled Release</i> , 2022, 345, 819-831.	9.9	83
5	Profiling of mature-stage human breast milk cells identifies six unique lactocyte subpopulations. <i>Science Advances</i> , 2022, 8, .	10.3	15
6	The enhanced intestinal permeability of infant mice enables oral protein and macromolecular absorption without delivery technology. <i>International Journal of Pharmaceutics</i> , 2021, 593, 120120.	5.2	14
7	Oral delivery of peptide therapeutics in infants: Challenges and opportunities. <i>Advanced Drug Delivery Reviews</i> , 2021, 173, 112-124.	13.7	17
8	mRNA vaccines for infectious diseases: principles, delivery and clinical translation. <i>Nature Reviews Drug Discovery</i> , 2021, 20, 817-838.	46.4	577
9	Anionic nanoparticles enable the oral delivery of proteins by enhancing intestinal permeability. <i>Nature Biomedical Engineering</i> , 2020, 4, 84-96.	22.5	186
10	Materials for oral delivery of proteins and peptides. <i>Nature Reviews Materials</i> , 2020, 5, 127-148.	48.7	275
11	A Potent Branched-Tail Lipid Nanoparticle Enables Multiplexed mRNA Delivery and Gene Editing <i>In Vivo</i> . <i>Nano Letters</i> , 2020, 20, 5167-5175.	9.1	72
12	Engineering Aligned Skeletal Muscle Tissue Using Decellularized Plant-Derived Scaffolds. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3046-3054.	5.2	58
13	Piperazine Derivatives Enhance Epithelial Cell Monolayer Permeability by Increased Cell Force Generation and Loss of Cadherin Structures. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 367-374.	5.2	6
14	Expanding the utility of the dextran sulfate sodium (DSS) mouse model to induce a clinically relevant loss of intestinal barrier function. <i>PeerJ</i> , 2020, 8, e8681.	2.0	22
15	Development of a clinically relevant chemoresistant mantle cell lymphoma cell culture model. <i>Experimental Biology and Medicine</i> , 2019, 244, 865-872.	2.4	0
16	Reversible inhibition of efflux transporters by hydrogel microdevices. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 145, 76-84.	4.3	12
17	Thrifty, Rapid Intestinal Monolayers (TRIM) Using Caco-2 Epithelial Cells for Oral Drug Delivery Experiments. <i>Pharmaceutical Research</i> , 2019, 36, 172.	3.5	9
18	Lipid nanoparticles silence tumor necrosis factor α to improve wound healing in diabetic mice. <i>Bioengineering and Translational Medicine</i> , 2019, 4, 75-82.	7.1	49

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19	Branched Tail Lipid Nanoparticles Potently Deliver mRNA In Vivo due to Enhanced Ionization at Endosomal pH. <i>Small</i> , 2019, 15, e1805097.	10.0	159
20	Lipid Nanoparticle Formulations for Enhanced Co-delivery of siRNA and mRNA. <i>Nano Letters</i> , 2018, 18, 3814-3822.	9.1	184
21	Oral delivery of siRNA lipid nanoparticles: Fate in the GI tract. <i>Scientific Reports</i> , 2018, 8, 2178.	3.3	91
22	Lipid nanoparticle siRNA cocktails for the treatment of mantle cell lymphoma. <i>Bioengineering and Translational Medicine</i> , 2018, 3, 138-147.	7.1	13
23	Achieving long-term stability of lipid nanoparticles: examining the effect of pH, temperature, and lyophilization. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 305-315.	6.7	157
24	ATRP-grown protein-polymer conjugates containing phenylpiperazine selectively enhance transepithelial protein transport. <i>Journal of Controlled Release</i> , 2017, 255, 270-278.	9.9	26
25	Structure-Function Analysis of Phenylpiperazine Derivatives as Intestinal Permeation Enhancers. <i>Pharmaceutical Research</i> , 2017, 34, 1320-1329.	3.5	18
26	Tools for translation: non-viral materials for therapeutic mRNA delivery. <i>Nature Reviews Materials</i> , 2017, 2, .	48.7	504
27	Recent advances in biomaterials for the treatment of diabetic foot ulcers. <i>Biomaterials Science</i> , 2017, 5, 1962-1975.	5.4	70
28	Lipidoid nanoparticle mediated silencing of Mcl-1 induces apoptosis in mantle cell lymphoma. <i>Experimental Biology and Medicine</i> , 2016, 241, 1007-1013.	2.4	21
29	Introduction to the <i>BioTM</i> special issue "Nucleic Acid Delivery: Enabling the Drugs of Tomorrow". <i>Bioengineering and Translational Medicine</i> , 2016, 1, 119-120.	7.1	0
30	Lipidoid Tail Structure Strongly Influences siRNA Delivery Activity. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 305-314.	2.1	14
31	The pH of Piperazine Derivative Solutions Predicts Their Utility as Transepithelial Permeation Enhancers. <i>Molecular Pharmaceutics</i> , 2016, 13, 578-585.	4.6	20
32	Silencing TNF α with lipidoid nanoparticles downregulates both TNF α and MCP-1 in an in vitro co-culture model of diabetic foot ulcers. <i>Acta Biomaterialia</i> , 2016, 32, 120-128.	8.3	51
33	A cage for pathogens. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	1
34	A one-two punch for pain control. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
35	Pancreatic cells play switcheroo. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
36	A captive peptide for T cell activation. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0

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37	Gobbling up inflammation to ameliorate autoimmunity. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
38	Protecting kids with a patch. <i>Science Translational Medicine</i> , 2016, 8, .	12.4	0
39	Muscling out gene mutations. <i>Science Translational Medicine</i> , 2016, 8, 367ec193.	12.4	0
40	A new lease on half-life. <i>Science Translational Medicine</i> , 2016, 8, 369ec201.	12.4	0
41	Managing diabetes with nanomedicine: challenges and opportunities. <i>Nature Reviews Drug Discovery</i> , 2015, 14, 45-57.	46.4	459
42	Lipidoid Nanoparticles for siRNA Delivery to the Intestinal Epithelium: In Vitro Investigations in a Caco-2 Model. <i>PLoS ONE</i> , 2015, 10, e0133154.	2.5	36
43	In pursuit of a moving target: nanotherapeutics for the treatment of non-Hodgkin B-cell lymphoma. <i>Expert Opinion on Drug Delivery</i> , 2014, 11, 1923-1937.	5.0	27
44	Degradable lipid nanoparticles with predictable in vivo siRNA delivery activity. <i>Nature Communications</i> , 2014, 5, 4277.	12.8	431
45	A Stiff Injectable Biodegradable Elastomer. <i>Advanced Functional Materials</i> , 2013, 23, 1527-1533.	14.9	54
46	Rapid Discovery of Potent siRNA-Containing Lipid Nanoparticles Enabled by Controlled Microfluidic Formulation. <i>Journal of the American Chemical Society</i> , 2012, 134, 6948-6951.	13.7	288
47	<i>In Vitro</i> to <i>In Vivo</i> Translation of Lipid Nanoparticles for Hepatocellular siRNA Delivery. <i>ACS Nano</i> , 2012, 6, 6922-6929.	14.6	96
48	Action and Reaction: The Biological Response to siRNA and Its Delivery Vehicles. <i>Molecular Therapy</i> , 2012, 20, 513-524.	8.2	231
49	Synergistic Silencing: Combinations of Lipid-like Materials for Efficacious siRNA Delivery. <i>Molecular Therapy</i> , 2011, 19, 1688-1694.	8.2	62
50	Combinatorial synthesis of chemically diverse core-shell nanoparticles for intracellular delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12996-13001.	7.1	178
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
52	Advances in Drug Delivery. <i>Annual Review of Materials Research</i> , 2011, 41, 1-20.	9.3	125
53	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, 1864-1869.	7.1	776
54	Combinatorial Approach to Determine Functional Group Effects on Lipidoid-Mediated siRNA Delivery. <i>Bioconjugate Chemistry</i> , 2010, 21, 1448-1454.	3.6	64

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55	Nanoparticulate Cellular Patches for Cell-Mediated Tumoritropic Delivery. ACS Nano, 2010, 4, 625-631.	14.6	133
56	Knocking down barriers: advances in siRNA delivery. Nature Reviews Drug Discovery, 2009, 8, 129-138.	46.4	2,639
57	Safe and Effective Permeation Enhancers for Oral Drug Delivery. Pharmaceutical Research, 2008, 25, 1782-1788.	3.5	115
58	Mechanistic Analysis of Chemical Permeation Enhancers for Oral Drug Delivery. Pharmaceutical Research, 2008, 25, 1412-1419.	3.5	57
59	Discovery of synergistic permeation enhancers for oral drug delivery. Journal of Controlled Release, 2008, 128, 128-133.	9.9	22
60	Oral delivery of macromolecules using intestinal patches: applications for insulin delivery. Journal of Controlled Release, 2004, 98, 37-45.	9.9	109