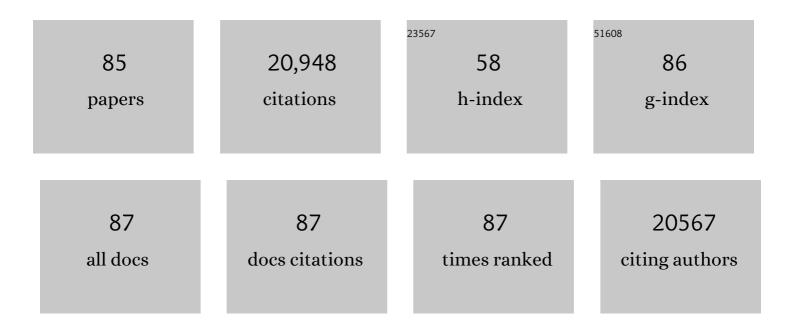
Pieter R Cullis

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Drug Delivery Systems: Entering the Mainstream. Science, 2004, 303, 1818-1822.	12.6	4,028
2	Liposomal drug delivery systems: From concept to clinical applications. Advanced Drug Delivery Reviews, 2013, 65, 36-48.	13.7	3,565
3	Rational design of cationic lipids for siRNA delivery. Nature Biotechnology, 2010, 28, 172-176.	17.5	1,366
4	Maximizing the Potency of siRNA Lipid Nanoparticles for Hepatic Gene Silencing Inâ€Vivo**. Angewandte Chemie - International Edition, 2012, 51, 8529-8533.	13.8	843
5	The Onpattro story and the clinical translation of nanomedicines containing nucleic acid-based drugs. Nature Nanotechnology, 2019, 14, 1084-1087.	31.5	814
6	Lipid Nanoparticle Systems for Enabling Gene Therapies. Molecular Therapy, 2017, 25, 1467-1475.	8.2	632
7	Microfluidic Synthesis of Highly Potent Limit-size Lipid Nanoparticles for In Vivo Delivery of siRNA. Molecular Therapy - Nucleic Acids, 2012, 1, e37.	5.1	445
8	Interactions of liposomes and lipid-based carrier systems with blood proteins: Relation to clearance behaviour in vivo. Advanced Drug Delivery Reviews, 1998, 32, 3-17.	13.7	344
9	Efficient encapsulation of antisense oligonucleotides in lipid vesicles using ionizable aminolipids: formation of novel small multilamellar vesicle structures. Biochimica Et Biophysica Acta - Biomembranes, 2001, 1510, 152-166.	2.6	344
10	Lipid Nanoparticles Enabling Gene Therapies: From Concepts to Clinical Utility. Nucleic Acid Therapeutics, 2018, 28, 146-157.	3.6	335
11	The Liposomal Formulation of Doxorubicin. Methods in Enzymology, 2005, 391, 71-97.	1.0	332
12	Lipid polymorphism and the roles of lipids in membranes. Chemistry and Physics of Lipids, 1986, 40, 127-144.	3.2	321
13	On the Formation and Morphology of Lipid Nanoparticles Containing Ionizable Cationic Lipids and siRNA. ACS Nano, 2018, 12, 4787-4795.	14.6	319
14	Lipid Nanoparticle Technology for Clinical Translation of siRNA Therapeutics. Accounts of Chemical Research, 2019, 52, 2435-2444.	15.6	270
15	Bottom-Up Design and Synthesis of Limit Size Lipid Nanoparticle Systems with Aqueous and Triglyceride Cores Using Millisecond Microfluidic Mixing. Langmuir, 2012, 28, 3633-3640.	3.5	250
16	Liposomal nanomedicines. Expert Opinion on Drug Delivery, 2008, 5, 25-44.	5.0	235
17	Lipid Nanoparticles Containing siRNA Synthesized by Microfluidic Mixing Exhibit an Electron-Dense Nanostructured Core. Journal of Physical Chemistry C, 2012, 116, 18440-18450.	3.1	232
18	The accumulation of drugs within large unilamellar vesicles exhibiting a proton gradient: a survey. Chemistry and Physics of Lipids, 1990, 53, 37-46.	3.2	231

#	Article	IF	CITATIONS
19	Influence of Cholesterol on the Association of Plasma Proteins with Liposomes. Biochemistry, 1996, 35, 2521-2525.	2.5	231
20	Lipid-Based DNA Therapeutics: Hallmarks of Non-Viral Gene Delivery. ACS Nano, 2019, 13, 3754-3782.	14.6	220
21	Characterization of liposomal systems containing doxorubicin entrapped in response to pH gradients. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1025, 143-151.	2.6	216
22	Liposome—complement interactions in rat serum: implications for liposome survival studies. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1191, 43-51.	2.6	215
23	Influence of particle size on the in vivo potency of lipid nanoparticle formulations of siRNA. Journal of Controlled Release, 2016, 235, 236-244.	9.9	204
24	Microfluidic Mixing: A General Method for Encapsulating Macromolecules in Lipid Nanoparticle Systems. Journal of Physical Chemistry B, 2015, 119, 8698-8706.	2.6	203
25	Spontaneous Entrapment of Polynucleotides upon Electrostatic Interaction with Ethanol-Destabilized Cationic Liposomes. Biophysical Journal, 2001, 80, 2310-2326.	0.5	193
26	Lipid nanoparticle technology for therapeutic gene regulation in the liver. Advanced Drug Delivery Reviews, 2020, 159, 344-363.	13.7	187
27	Influence of pH gradients on the transbilayer transport of drugs, lipids, peptides and metal ions into large unilamellar vesicles. BBA - Biomembranes, 1997, 1331, 187-211.	8.0	185
28	On the role of helper lipids in lipid nanoparticle formulations of siRNA. Nanoscale, 2019, 11, 21733-21739.	5.6	176
29	Advances in Lipid Nanoparticles for siRNA Delivery. Pharmaceutics, 2013, 5, 498-507.	4.5	169
30	Stateâ€ofâ€ŧheâ€Art Design and Rapidâ€Mixing Production Techniques of Lipid Nanoparticles for Nucleic Acid Delivery. Small Methods, 2018, 2, 1700375.	8.6	165
31	β2-Glycoprotein I Is a Major Protein Associated with Very Rapidly Cleared Liposomes in Vivo, Suggesting a Significant Role in the Immune Clearance of "Non-self―Particles. Journal of Biological Chemistry, 1995, 270, 25845-25849.	3.4	161
32	Techniques for encapsulating bioactive agents into liposomes. Chemistry and Physics of Lipids, 1986, 40, 333-345.	3.2	158
33	Influence of Cationic Lipid Composition on Gene Silencing Properties of Lipid Nanoparticle Formulations of siRNA in Antigen-Presenting Cells. Molecular Therapy, 2011, 19, 2186-2200.	8.2	153
34	Lipid Nanoparticle Delivery of siRNA to Silence Neuronal Gene Expression in the Brain. Molecular Therapy - Nucleic Acids, 2013, 2, e136.	5.1	127
35	Design of lipid nanoparticles for in vitro and in vivo delivery of plasmid DNA. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 1377-1387.	3.3	122
36	Separation of large unilamellar liposomes from blood components by a spin column procedure: towards identifying plasma proteins which mediate liposome clearance in vivo. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1070, 215-222.	2.6	121

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37	The Biomolecular Corona of Lipid Nanoparticles for Gene Therapy. Bioconjugate Chemistry, 2020, 31, 2046-2059.	3.6	120
38	Therapeutically optimized rates of drug release can be achieved by varying the drug-to-lipid ratio in liposomal vincristine formulations. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 55-64.	2.6	118
39	Liposomal Nanomedicines: An Emerging Field. Toxicologic Pathology, 2008, 36, 21-29.	1.8	115
40	Modulation of Membrane Fusion by Asymmetric Transbilayer Distributions of Amino Lipids. Biochemistry, 1994, 33, 12573-12580.	2.5	110
41	Lipid Nanoparticles for Short Interfering RNA Delivery. Advances in Genetics, 2014, 88, 71-110.	1.8	109
42	Development of lipid nanoparticle formulations of siRNA for hepatocyte gene silencing following subcutaneous administration. Journal of Controlled Release, 2014, 196, 106-112.	9.9	108
43	Anomalous solubility behavior of the antibiotic ciprofloxacin encapsulated in liposomes: a 1H-NMR study. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1374, 9-20.	2.6	106
44	Influence of dose on liposome clearance: critical role of blood proteins. Biochimica Et Biophysica Acta - Biomembranes, 1996, 1281, 31-37.	2.6	102
45	Liposomes with entrapped doxorubicin exhibit extended blood residence times. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1023, 133-139.	2.6	95
46	Characterization of the drug retention and pharmacokinetic properties of liposomal nanoparticles containing dihydrosphingomyelin. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 1121-1127.	2.6	92
47	Fusion-dependent formation of lipid nanoparticles containing macromolecular payloads. Nanoscale, 2019, 11, 9023-9031.	5.6	85
48	Loading of doxorubicin into liposomes by forming Mn2+-drug complexes. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1414, 205-216.	2.6	83
49	Lipid-based systems for the intracellular delivery of genetic drugs. Molecular Membrane Biology, 1999, 16, 129-140.	2.0	82
50	Development of a weak-base docetaxel derivative that can be loaded into lipid nanoparticles. Journal of Controlled Release, 2010, 144, 332-340.	9.9	78
51	Lipid nanoparticle siRNA systems for silencing the androgen receptor in human prostate cancer <i>in vivo</i> . International Journal of Cancer, 2012, 131, E781-90.	5.1	73
52	Influence of Drug-to-Lipid Ratio on Drug Release Properties and Liposome Integrity in Liposomal Doxorubicin Formulations. Journal of Liposome Research, 2008, 18, 145-157.	3.3	72
53	lonophore-mediated uptake of ciprofloxacin and vincristine into large unilamellar vesicles exhibiting transmembrane ion gradients. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1414, 188-204.	2.6	69
54	Optimization of the retention properties of vincristine in liposomal systems. Biochimica Et Biophysica Acta - Biomembranes, 1993, 1152, 253-258.	2.6	67

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55	Influence of cationic lipid composition on uptake and intracellular processing of lipid nanoparticle formulations of siRNA. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 233-246.	3.3	67
56	Effects of intravenous and subcutaneous administration on the pharmacokinetics, biodistribution, cellular uptake and immunostimulatory activity of CpG ODN encapsulated in liposomal nanoparticles. International Immunopharmacology, 2007, 7, 1064-1075.	3.8	65
57	[3] Stabilized plasmid-lipid particles: A systemic gene therapy vector. Methods in Enzymology, 2002, 346, 36-71.	1.0	63
58	siRNA Lipid Nanoparticle Potently Silences Clusterin and Delays Progression When Combined with Androgen Receptor Cotargeting in Enzalutamide-Resistant Prostate Cancer. Clinical Cancer Research, 2015, 21, 4845-4855.	7.0	60
59	Formation of drug–arylsulfonate complexes inside liposomes: A novel approach to improve drug retention. Journal of Controlled Release, 2006, 110, 378-386.	9.9	58
60	Characterization of Lipid Nanoparticles Containing Ionizable Cationic Lipids Using Design-of-Experiments Approach. Langmuir, 2021, 37, 1120-1128.	3.5	50
61	Ganglioside GM1and Hydrophilic Polymers Increase Liposome Circulation Times by Inhibiting the Association of Blood Proteins. Journal of Liposome Research, 1992, 2, 397-410.	3.3	47
62	Intratumor distribution of doxorubicin following i.v. administration of drug encapsulated in egg phosphatidylcholine/cholesterol liposomes. Cancer Chemotherapy and Pharmacology, 1997, 40, 309-317.	2.3	47
63	Use of liposomes as injectable-drug delivery systems. American Journal of Health-System Pharmacy, 1989, 46, 1576-1588.	1.0	46
64	pH-Induced destabilization of lipid bilayers by a lipopeptide derived from influenza hemagglutinin. Biochimica Et Biophysica Acta - Biomembranes, 1997, 1324, 232-244.	2.6	46
65	Rapid synthesis of lipid nanoparticles containing hydrophobic inorganic nanoparticles. Nanoscale, 2017, 9, 13600-13609.	5.6	46
66	Dexamethasone prodrugs as potent suppressors of the immunostimulatory effects of lipid nanoparticle formulations of nucleic acids. Journal of Controlled Release, 2018, 286, 46-54.	9.9	42
67	Freeze-fracture of lipids and model membrane systems. Journal of Electron Microscopy Technique, 1989, 13, 277-287.	1.1	38
68	The Niemann-Pick C1 Inhibitor NP3.47 Enhances Gene Silencing Potency of Lipid Nanoparticles Containing siRNA. Molecular Therapy, 2016, 24, 2100-2108.	8.2	38
69	Optimized Photoactivatable Lipid Nanoparticles Enable Red Light Triggered Drug Release. Small, 2021, 17, e2008198.	10.0	36
70	The Use of Transmembrane pH Gradient-Driven Drug Encapsulation in the Pharmacodynamic Evaluation of Liposomal Doxorubicin. Journal of Liposome Research, 1994, 4, 529-553.	3.3	35
71	A Glu-urea-Lys Ligand-conjugated Lipid Nanoparticle/siRNA System Inhibits Androgen Receptor Expression In Vivo. Molecular Therapy - Nucleic Acids, 2016, 5, e348.	5.1	35
72	Small molecule ligands for enhanced intracellular delivery of lipid nanoparticle formulations of siRNA. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 665-674.	3.3	34

#	Article	IF	CITATIONS
73	Modular Lipid Nanoparticle Platform Technology for siRNA and Lipophilic Prodrug Delivery. Small, 2021, 17, e2103025.	10.0	29
74	Strategies for Optimizing Liposomal Doxorubicin. Journal of Liposome Research, 1990, 1, 463-480.	3.3	26
75	The presence of GM1 in liposomes with entrapped doxorubicin does not prevent RES blockade. Lipids and Lipid Metabolism, 1993, 1168, 249-252.	2.6	23
76	Simultaneous, Single-Particle Measurements of Size and Loading Give Insights into the Structure of Drug-Delivery Nanoparticles. ACS Nano, 2021, 15, 19244-19255.	14.6	23
77	IGFBP2 Is Neither Sufficient nor Necessary for the Physiological Actions of Leptin on Glucose Homeostasis in Male ob/ob Mice. Endocrinology, 2014, 155, 716-725.	2.8	21
78	Lipid nanoparticle delivery of glucagon receptor siRNA improves glucose homeostasis in mouse models of diabetes. Molecular Metabolism, 2017, 6, 1161-1172.	6.5	20
79	Role of drug delivery technologies in the success of COVID-19 vaccines: a perspective. Drug Delivery and Translational Research, 2022, 12, 2581-2588.	5.8	17
80	Platelet Distribution in Rabbits Following Infusion of Liposomes. Thrombosis and Haemostasis, 1989, 61, 392-396.	3.4	11
81	Exciting Times for Lipid Nanoparticles: How Canadian Discoveries Are Enabling Gene Therapies. Molecular Pharmaceutics, 2022, 19, 1663-1668.	4.6	11
82	Lipid nanoparticle-mediated silencing of osteogenic suppressor GNAS leads to osteogenic differentiation of mesenchymal stem cells inÂvivo. Molecular Therapy, 2022, 30, 3034-3051.	8.2	10
83	Lipid nanoparticles to silence androgen receptor variants for prostate cancer therapy. Journal of Controlled Release, 2022, 349, 174-183.	9.9	10
84	Magnetic Filtration of Vesicles Containing Iron-Dextran Particles. Journal of Liposome Research, 1988, 1, 137-150.	3.3	6
85	The effect of circulation lifetime and drug-to-lipid ratio of intravenously administered lipid nanoparticles on the biodistribution and immunostimulatory activity of encapsulated CpG-ODN. Journal of Drug Targeting, 2008, 16, 564-577.	4.4	6