

Francis C Szoka Jr

List of Publications by Year in descending order

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67
papers

7,548
citations

109321

35
h-index

95266

68
g-index

70
all docs

70
docs citations

70
times ranked

9812
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of DNA Release from Cationic Liposome/DNA Complexes Used in Cell Transfection. <i>Biochemistry</i> , 1996, 35, 5616-5623.	2.5	1,125
2	<i>In Vitro</i> Gene Delivery by Degraded Polyamidoamine Dendrimers. <i>Bioconjugate Chemistry</i> , 1996, 7, 703-714.	3.6	818
3	Lipid-based Nanoparticles for Nucleic Acid Delivery. <i>Pharmaceutical Research</i> , 2007, 24, 438-449.	3.5	571
4	GALA: a designed synthetic pH-responsive amphipathic peptide with applications in drug and gene delivery. <i>Advanced Drug Delivery Reviews</i> , 2004, 56, 967-985.	13.7	518
5	Cancer nanomedicines: So many papers and so few drugs!. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 80-88.	13.7	472
6	Anticancer Therapeutics: Targeting Macromolecules and Nanocarriers to Hyaluronan or CD44, a Hyaluronan Receptor. <i>Molecular Pharmaceutics</i> , 2008, 5, 474-486.	4.6	400
7	BCAA catabolism in brown fat controls energy homeostasis through SLC25A44. <i>Nature</i> , 2019, 572, 614-619.	27.8	332
8	Delivery of plasmid DNA into mammalian cell lines using pH-sensitive liposomes: comparison with cationic liposomes. <i>Pharmaceutical Research</i> , 1992, 09, 1235-1242.	3.5	313
9	Polymer-stabilized Cas9 nanoparticles and modified repair templates increase genome editing efficiency. <i>Nature Biotechnology</i> , 2020, 38, 44-49.	17.5	198
10	The neonatal Fc receptor, FcRn, as a target for drug delivery and therapy. <i>Advanced Drug Delivery Reviews</i> , 2015, 91, 109-124.	13.7	177
11	Efficiency of cytoplasmic delivery by pH-sensitive liposomes to cells in culture. <i>Pharmaceutical Research</i> , 1990, 07, 824-834.	3.5	172
12	Distribution in brain of liposomes after convection enhanced delivery; modulation by particle charge, particle diameter, and presence of steric coating. <i>Brain Research</i> , 2005, 1035, 139-153.	2.2	165
13	The effect of polymer backbone chemistry on the induction of the accelerated blood clearance in polymer modified liposomes. <i>Journal of Controlled Release</i> , 2015, 213, 1-9.	9.9	148
14	Macrophage-based cell therapies: The long and winding road. <i>Journal of Controlled Release</i> , 2016, 240, 527-540.	9.9	145
15	Low-pH-sensitive poly(ethylene glycol) (PEG)-stabilized plasmid nanolipoparticles: effects of PEG chain length, lipid composition and assembly conditions on gene delivery. <i>Journal of Gene Medicine</i> , 2005, 7, 67-79.	2.8	131
16	Designer lipids for drug delivery: From heads to tails. <i>Journal of Controlled Release</i> , 2014, 190, 274-287.	9.9	129
17	Synthesis and Characterization of Long Chain Alkyl Acyl Carnitine Esters. Potentially Biodegradable Cationic Lipids for Use in Gene Delivery. <i>Journal of Medicinal Chemistry</i> , 1998, 41, 2207-2215.	6.4	125
18	Barriers to carrier mediated drug and gene delivery to brain tumors. <i>Journal of Controlled Release</i> , 2006, 110, 236-259.	9.9	110

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19	Sterol-Modified Phospholipids: Cholesterol and Phospholipid Chimeras with Improved Biomembrane Properties. <i>Journal of the American Chemical Society</i> , 2008, 130, 15702-15712.	13.7	107
20	Digesting a Path Forward: The Utility of Collagenase Tumor Treatment for Improved Drug Delivery. <i>Molecular Pharmaceutics</i> , 2018, 15, 2069-2083.	4.6	94
21	Disterolphospholipids: Nonexchangeable Lipids and Their Application to Liposomal Drug Delivery. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4146-4149.	13.8	92
22	Periplasmic production via the pET expression system of soluble, bioactive human growth hormone. <i>Protein Expression and Purification</i> , 2013, 87, 129-135.	1.3	78
23	pH-Sensitive Liposomes. <i>Journal of Liposome Research</i> , 1994, 4, 361-395.	3.3	77
24	Improving the distribution of Doxil [®] in the tumor matrix by depletion of tumor hyaluronan. <i>Journal of Controlled Release</i> , 2014, 191, 105-114.	9.9	66
25	Antitumor effect of folate-targeted liposomal doxorubicin in KB tumor-bearing mice after intravenous administration. <i>Journal of Drug Targeting</i> , 2011, 19, 14-24.	4.4	58
26	Antibody Response to Polyhistidine-Tagged Peptide and Protein Antigens Attached to Liposomes via Lipid-Linked Nitrilotriacetic Acid in Mice. <i>Vaccine Journal</i> , 2011, 18, 289-297.	3.1	52
27	Anti-tumor activity of liposome encapsulated fluoroorotic acid as a single agent and in combination with liposome irinotecan. <i>Journal of Controlled Release</i> , 2011, 153, 288-296.	9.9	50
28	Surface aggregation and membrane penetration by peptides: relation to pore formation and fusion. <i>Molecular Membrane Biology</i> , 1999, 16, 95-101.	2.0	49
29	How are Nucleic Acids Released in Cells from Cationic Lipid-Nucleic Acid Complexes?. <i>Journal of Liposome Research</i> , 1996, 6, 567-587.	3.3	44
30	Clinical developments of chemotherapeutic nanomedicines: polymers and liposomes for delivery of camptothecins and platinum (II) drugs. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2013, 5, 130-138.	6.1	41
31	Zwitterionic sulfobetaine lipids that form vesicles with salt-dependent thermotropic properties. <i>Chemical Communications</i> , 2011, 47, 12613.	4.1	39
32	Incorporation of LPS in Liposomes Diminishes Its Ability to Induce Tumoricidal Activity and Tumor Necrosis Factor Secretion in Murine Macrophages. <i>Journal of Leukocyte Biology</i> , 1988, 43, 436-444.	3.3	38
33	Amino acid side-chain contributions to free energy of transfer of tripeptides from water to octanol. <i>Pharmaceutical Research</i> , 1992, 09, 504-514.	3.5	37
34	Phage display selection of a peptide DNase II inhibitor that enhances gene delivery. <i>Journal of Gene Medicine</i> , 2001, 3, 101-108.	2.8	37
35	Amphotericin B Formulated in Liposomes and Lipid Based Systems: A Review. <i>Journal of Liposome Research</i> , 1993, 3, 363-375.	3.3	35
36	Fusion of a Short Peptide that Binds Immunoglobulin G to a Recombinant Protein Substantially Increases Its Plasma Half-Life in Mice. <i>PLoS ONE</i> , 2014, 9, e102566.	2.5	35

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37	Role of lipid structure in the humoral immune response in mice to covalent lipid-peptides from the membrane proximal region of HIV-1 gp41. <i>Vaccine</i> , 2009, 27, 4672-4683.	3.8	34
38	Matrix modification for enhancing the transport properties of the human cartilage endplate to improve disc nutrition. <i>PLoS ONE</i> , 2019, 14, e0215218.	2.5	34
39	Encapsulation, controlled release, and antitumor efficacy of cisplatin delivered in liposomes composed of sterol-modified phospholipids. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 103, 85-93.	4.0	33
40	Chemotherapeutic Evaluation of a Synthetic Tubulysin Analogue-Dendrimer Conjugate in C26 Tumor Bearing Mice. <i>ChemMedChem</i> , 2011, 6, 49-53.	3.2	31
41	Phosphatase-Triggered Fusogenic Liposomes for Cytoplasmic Delivery of Cell-Impermeable Compounds. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9047-9051.	13.8	30
42	Development of a flow-through USP 4 apparatus drug release assay for the evaluation of amphotericin B liposome. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 134, 107-116.	4.3	30
43	Molecular motors as drug delivery vehicles. <i>Drug Discovery Today: Technologies</i> , 2005, 2, 111-118.	4.0	27
44	Cationic Liposomes as an Oligonucleotide Carrier: Mechanism of Action. <i>Journal of Liposome Research</i> , 1997, 7, 31-49.	3.3	25
45	Lecithin: Cholesterol acyltransferase activation by synthetic amphipathic peptides. <i>Proteins: Structure, Function and Bioinformatics</i> , 1988, 3, 187-198.	2.6	20
46	Synthesis and characterization of betaine-like diacyl lipids: zwitterionic lipids with the cationic amine at the bilayer interface. <i>Chemistry and Physics of Lipids</i> , 2012, 165, 252-259.	3.2	20
47	Biodistribution and <i>In Vivo</i> Antileishmanial Activity of 1,2-Distigmasterylhemisuccinoyl-sn-Glycero-3-Phosphocholine Liposome-Intercalated Amphotericin B. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	19
48	Rational Design of Membrane Proximal External Region Lipopeptides Containing Chemical Modifications for HIV-1 Vaccination. <i>Vaccine Journal</i> , 2013, 20, 39-45.	3.1	18
49	Toroid formation in charge neutralized flexible or semi-flexible biopolymers: potential pathway for assembly of DNA carriers. <i>Journal of Gene Medicine</i> , 2005, 7, 334-342.	2.8	13
50	Chemically Modified Peptides Based on the Membrane-Proximal External Region of the HIV-1 Envelope Induce High-Titer, Epitope-Specific Nonneutralizing Antibodies in Rabbits. <i>Vaccine Journal</i> , 2014, 21, 1086-1093.	3.1	13
51	All-trans retinoic acid potentiates the antibody response in mice to a lipopeptide antigen adjuvanted with liposomal lipid A. <i>Immunology and Cell Biology</i> , 2009, 87, 630-633.	2.3	12
52	Convection and Retro-Convection Enhanced Delivery: Some Theoretical Considerations Related to Drug Targeting. <i>Pharmaceutical Research</i> , 2011, 28, 472-479.	3.5	12
53	A robust and quantitative method for tracking liposome contents after intravenous administration. <i>Journal of Controlled Release</i> , 2014, 176, 86-93.	9.9	11
54	Sulfated quaternary amine lipids: a new class of inverse charge zwitterlipids. <i>Chemical Communications</i> , 2014, 50, 9109-9111.	4.1	11

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55	Sterol-modified PEG lipids: alteration of the bilayer anchoring moiety has an unexpected effect on liposome circulation. <i>Chemical Communications</i> , 2018, 54, 11949-11952.	4.1	11
56	Antiviral Activity and Pharmacokinetics of Liposome-Encapsulated Phosphonoformate in Rauscher Murine Leukemia Virus-Infected Mice. <i>Journal of Liposome Research</i> , 1992, 2, 67-92.	3.3	8
57	Constrained Versus Free Cholesterol in DPPC Membranes: A Comparison of Chain Ordering Ability Using Deuterium NMR. <i>Langmuir</i> , 2017, 33, 14405-14413.	3.5	7
58	Many are probed, but few are chosen. <i>Nature Biotechnology</i> , 1997, 15, 509-509.	17.5	6
59	Remembrance: Demetrios P. Papahadjopoulos August 24, 1934–September 21, 1998. <i>Journal of Liposome Research</i> , 1998, 8, vii-xi.	3.3	6
60	HIV TAT Protein Transduction Domain Mediated Cell Binding and Intracellular Delivery of Nanoparticles. <i>Journal of Dispersion Science and Technology</i> , 2003, 24, 465-473.	2.4	6
61	Perturbation of solute transport at a liquid–liquid interface by polyethylene glycol (PEG): implications for PEG-induced biomembrane fusion. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5346.	2.8	5
62	Co-localization of fluorescent labeled lipid nanoparticles with specifically tagged subcellular compartments by single particle tracking at low nanoparticle to cell ratios. <i>Journal of Drug Targeting</i> , 2016, 24, 857-864.	4.4	5
63	Clodronate Improves Survival of Transplanted Hoxb8 Myeloid Progenitors with Constitutively Active GMCSFR in Immunocompetent Mice. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017, 7, 60-73.	4.1	5
64	Biochemical, Morphological, and Functional Analyses of a Cyclic Peptide, Phospholipid, and DNA Ternary Complex used for Gene Delivery. <i>Journal of Liposome Research</i> , 1998, 8, 347-366.	3.3	4
65	Commentary: Rantosomes and Ravosomes. <i>Journal of Liposome Research</i> , 1998, 8, vii-ix.	3.3	3
66	Cryogenic Transmission Electron Microscopy (Cryo-TEM) Reveals Morphological Changes of Liposomal Doxorubicin during In Vitro Release. <i>Microscopy and Microanalysis</i> , 2017, 23, 1216-1217.	0.4	1
67	Ferrozine-Based Iron Quantification of Iron Overloaded Mice: a Simple, Robust Method for the Assessment of Iron Chelation Therapies. <i>Blood</i> , 2015, 126, 2054-2054.	1.4	0