

Cationic liposomes as non-viral carriers of gene medicine: current questions, and future promises

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Citation Report

#	ARTICLE	IF	CITATIONS
1	On the Search for Skin Gene Therapy Strategies of Xeroderma Pigmentosum Disease. <i>Current Gene Therapy</i> , 2007, 7, 163-174.	0.9	13
2	Precisely Defined Protein-Polymer Conjugates: Construction of Synthetic DNA Binding Domains on Proteins by Using Multivalent Dendrons. <i>ACS Nano</i> , 2007, 1, 103-113.	7.3	77
3	Dramatic Influence of the Orientation of Linker between Hydrophilic and Hydrophobic Lipid Moiety in Liposomal Gene Delivery. <i>Journal of the American Chemical Society</i> , 2007, 129, 11408-11420.	6.6	98
5	DiC14-amidine confers new anti-inflammatory properties to phospholipids. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 620-630.	2.4	15
6	Preparation and gene delivery of alkaline amino acids-based cationic liposomes. <i>Archives of Pharmacal Research</i> , 2008, 31, 924-931.	2.7	12
7	Solid lipid nanoparticles for retinal gene therapy: Transfection and intracellular trafficking in RPE cells. <i>International Journal of Pharmaceutics</i> , 2008, 360, 177-183.	2.6	93
8	Non-viral dried powders for respiratory gene delivery prepared by cationic and chitosan loaded liposomes. <i>International Journal of Pharmaceutics</i> , 2008, 364, 108-118.	2.6	30
9	Lipophilic Peptides for Gene Delivery. <i>Bioconjugate Chemistry</i> , 2008, 19, 418-420.	1.8	43
10	Liposomes in ultrasonic drug and gene delivery. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 1167-1176.	6.6	304
11	New strategies for nucleic acid delivery to conquer cellular and nuclear membranes. <i>Journal of Controlled Release</i> , 2008, 132, 279-288.	4.8	45
12	Synergistic effects in gene delivery—a structure-activity approach to the optimisation of hybrid dendritic-lipidic transfection agents. <i>Chemical Communications</i> , 2008, , 4700.	2.2	70
13	Cationic liposomal lipids: From gene carriers to cell signaling. <i>Progress in Lipid Research</i> , 2008, 47, 340-347.	5.3	186
14	Self-assembly approaches to nanomaterial encapsulation in viral protein cages. <i>Journal of Materials Chemistry</i> , 2008, 18, 3763.	6.7	106
15	Covalent Grafting of Common Trihydroxymethylaminomethane in the Headgroup Region Imparts High Serum Compatibility and Mouse Lung Transfection Property to Cationic Amphiphile. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1967-1971.	2.9	14
16	Muscular Gene Transfer Using Nonviral Vectors. <i>Current Gene Therapy</i> , 2008, 8, 391-405.	0.9	59
17	Cationic lipids as gene transfer agents: a patent review. <i>Expert Opinion on Therapeutic Patents</i> , 2008, 18, 515-524.	2.4	19
18	Synthetic Sustained Gene Delivery Systems. <i>Current Topics in Medicinal Chemistry</i> , 2008, 8, 311-330.	1.0	42
19	Dendrimers and the Double Helix - From DNA Binding Towards Gene Therapy. <i>Current Topics in Medicinal Chemistry</i> , 2008, 8, 1187-1203.	1.0	64

#	ARTICLE	IF	CITATIONS
20	Nonviral Vector Gene Modification of Stem Cells for Myocardial Repair. <i>Molecular Medicine</i> , 2008, 14, 79-86.	1.9	36
21	Selective Cancer Targeting via Aberrant Behavior of Cancer Cell-associated Glucocorticoid Receptor. <i>Molecular Therapy</i> , 2009, 17, 623-631.	3.7	32
22	Transcutaneous immunization by lipoplex-patch based DNA vaccines is effective vaccination against Japanese encephalitis virus infection. <i>Journal of Controlled Release</i> , 2009, 135, 242-249.	4.8	27
23	Localized delivery of growth factors for periodontal tissue regeneration: Role, strategies, and perspectives. <i>Medicinal Research Reviews</i> , 2009, 29, 472-513.	5.0	132
24	Lipid-based emulsion system as non-viral gene carriers. <i>Archives of Pharmacal Research</i> , 2009, 32, 639-646.	2.7	35
25	Top-down particle fabrication: control of size and shape for diagnostic imaging and drug delivery. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2009, 1, 391-404.	3.3	139
26	Antitumor Activity and Prolonged Survival by Carbon Nanotube Mediated Therapeutic siRNA Silencing in a Human Lung Xenograft Model. <i>Small</i> , 2009, 5, 1176-1185.	5.2	153
27	Cell transfection by DNA-lipid complexes " Lipoplexes. <i>Biochemistry (Moscow)</i> , 2009, 74, 1293-1304.	0.7	24
28	Synthesis and Biological Applications of Imidazolium Based Polymerized Ionic Liquid as a Gene Delivery Vector. <i>Chemical Biology and Drug Design</i> , 2009, 74, 282-288.	1.5	80
29	12-Crown-4-based amphipathic lipid and corresponding metal cation complexes for gene therapy applications: FT-IR characterization and surface charge determination. <i>Journal of Molecular Structure</i> , 2009, 919, 328-333.	1.8	4
30	Cationic glycolipids with cyclic and open galactose head groups for the selective targeting of genes to mouse liver. <i>Biomaterials</i> , 2009, 30, 2369-2384.	5.7	54
31	Efficient nucleic acid transduction with lipoplexes containing novel piperazine- and polyamine-conjugated cholesterol derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 100-103.	1.0	31
32	Cationic amphiphiles: promising carriers of genetic materials in gene therapy. <i>Chemical Society Reviews</i> , 2009, 38, 3326.	18.7	132
33	Single Subcutaneous Administration of RGDK-Lipopeptide:rhPDGF-B Gene Complex Heals Wounds in Streptozotocin-Induced Diabetic Rats. <i>Molecular Pharmaceutics</i> , 2009, 6, 918-927.	2.3	16
34	Engineered Nanoscaled Polyplex Gene Delivery Systems. <i>Molecular Pharmaceutics</i> , 2009, 6, 1277-1289.	2.3	56
35	Lipophilic Lysine-Spermine Conjugates Are Potent Polyamine Transport Inhibitors for Use in Combination with a Polyamine Biosynthesis Inhibitor. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 1983-1993.	2.9	74
36	Cationic lipids activate cellular cascades. Which receptors are involved?. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 425-430.	1.1	22
37	DNA alters the bilayer structure of cationic lipid diC14-amidine: A spin label study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1304-1309.	1.4	8

#	ARTICLE	IF	CITATIONS
38	Comparative study of cellular kinetics of reporter probe [131I]FIAU in neonatal cardiac myocytes after transfer of HSV1-tk reporter gene with two vectors. <i>Nuclear Medicine and Biology</i> , 2009, 36, 207-213.	0.3	12
39	Liposome fusogenicity and entrapment efficiency of antigen determine the Th1/Th2 bias of antigen-specific immune response. <i>Vaccine</i> , 2009, 27, 5435-5442.	1.7	33
40	Binding of DNA to Zwitterionic Lipid Layers Mediated by Divalent Cations. <i>Journal of Physical Chemistry B</i> , 2009, 113, 12277-12282.	1.2	77
41	Role of Linker Groups between Hydrophilic and Hydrophobic Moieties of Cationic Surfactants on Oligonucleotide-Surfactant Interactions. <i>Langmuir</i> , 2009, 25, 13770-13775.	1.6	27
42	Polymer beacons for luminescence and magnetic resonance imaging of DNA delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16913-16918.	3.3	90
43	Very long-chain fatty tails for enhanced transfection. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 61-68.	1.5	15
44	Synergistic effects on gene delivery – co-formulation of small disulfide-linked dendritic polycations with Lipofectamine 2000. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 789.	1.5	26
45	Models of Antigen Receptor Activation in the Design of Vaccines. <i>Current Pharmaceutical Design</i> , 2009, 15, 3237-3248.	0.9	5
46	Gene Delivery for Periodontal Tissue Engineering: Current Knowledge – Future Possibilities. <i>Current Gene Therapy</i> , 2009, 9, 248-266.	0.9	21
47	Development of glycyrrhetic acid-modified stealth cationic liposomes for gene delivery. <i>International Journal of Pharmaceutics</i> , 2010, 397, 147-154.	2.6	90
48	Enhanced electro-mediated gene delivery using carrier genes. <i>Bioelectrochemistry</i> , 2010, 78, 186-190.	2.4	9
49	An in vitro feasibility study of controlled drug release from encapsulated nanometer liposomes using high intensity focused ultrasound. <i>Ultrasonics</i> , 2010, 50, 744-749.	2.1	34
50	Analysis of cationic liposomes by reversed-phase HPLC with evaporative light-scattering detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 51, 947-951.	1.4	42
51	Pseudovirions as Vehicles for the Delivery of siRNA. <i>Pharmaceutical Research</i> , 2010, 27, 400-420.	1.7	17
52	Dendritic Polyglycerols for Biomedical Applications. <i>Advanced Materials</i> , 2010, 22, 190-218.	11.1	590
53	Hydrophilic Co@Au Yolk/Shell Nanospheres: Synthesis, Assembly, and Application to Gene Delivery. <i>Advanced Materials</i> , 2010, 22, 1407-1411.	11.1	141
55	Synthesis of Linear Polyamines with Different Amine Spacings and their Ability to Form dsDNA/siRNA Complexes Suitable for Transfection. <i>Macromolecular Bioscience</i> , 2010, 10, 1073-1083.	2.1	21
56	Nucleophilic cationization reagents. <i>Tetrahedron Letters</i> , 2010, 51, 1727-1729.	0.7	31

#	ARTICLE	IF	CITATIONS
57	Toward delivery of multiple growth factors in tissue engineering. <i>Biomaterials</i> , 2010, 31, 6279-6308.	5.7	574
58	Hyperbranched Polyamines for Transfection. <i>Topics in Current Chemistry</i> , 2010, 296, 95-129.	4.0	31
59	Liposomes- and ethosomes-associated distamycins: a comparative study. <i>Journal of Liposome Research</i> , 2010, 20, 277-285.	1.5	26
60	Cationic Lipids: Molecular Structure/Transfection Activity Relationships and Interactions with Biomembranes. <i>Topics in Current Chemistry</i> , 2010, 296, 51-93.	4.0	47
62	Periodontal Tissue Engineering and Regeneration: Current Approaches and Expanding Opportunities. <i>Tissue Engineering - Part B: Reviews</i> , 2010, 16, 219-255.	2.5	277
63	Numerical optimization of gene electrotransfer into muscle tissue. <i>BioMedical Engineering OnLine</i> , 2010, 9, 66.	1.3	28
64	Gene Silencing Mediated by Magnetic Lipospheres Tagged with Small Interfering RNA. <i>Nano Letters</i> , 2010, 10, 3914-3921.	4.5	66
65	<i>In vivo</i> delivery of small interfering RNA to tumors and their vasculature by novel dendritic nanocarriers. <i>FASEB Journal</i> , 2010, 24, 3122-3134.	0.2	115
66	Synthesis of AZT-based cationic lipids and in vitro evaluation of siRNA delivery. <i>Chemical Communications</i> , 2010, 46, 1523.	2.2	8
67	Dendritic Polyglycerols with Oligoamine Shells Show Low Toxicity and High siRNA Transfection Efficiency in Vitro. <i>Bioconjugate Chemistry</i> , 2010, 21, 1744-1752.	1.8	69
68	Less is more – multiscale modelling of self-assembling multivalency and its impact on DNA binding and gene delivery. <i>Chemical Science</i> , 2010, 1, 393.	3.7	76
69	The Benefit of Hydrophobic Domain Asymmetry on the Efficacy of Transfection as Measured by <i>In Vivo</i> Imaging. <i>Molecular Pharmaceutics</i> , 2010, 7, 786-794.	2.3	31
70	Safe and efficient in vitro and in vivo gene delivery: tripodal cationic lipids with programmed biodegradability. <i>Journal of Materials Chemistry</i> , 2011, 21, 2154-2158.	6.7	7
71	Cationic liposomes are possible drug-delivery systems for HIV fusion inhibitor sifuvirtide. <i>Soft Matter</i> , 2011, 7, 11089.	1.2	6
72	Cationic nucleolipids as efficient siRNA carriers. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 291-296.	1.5	28
73	Influence of Minor Backbone Structural Variations in Modulating the in Vitro Gene Transfer Efficacies of α -Tocopherol Based Cationic Transfection Lipids. <i>Bioconjugate Chemistry</i> , 2011, 22, 2581-2592.	1.8	25
74	Hydrophobically Modified Dendrons: Developing Structure-Activity Relationships for DNA Binding and Gene Transfection. <i>Molecular Pharmaceutics</i> , 2011, 8, 416-429.	2.3	74
75	Design, Synthesis, and in Vitro Transfection Biology of Novel Tocopherol Based Monocationic Lipids: A Structure-Activity Investigation. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 548-561.	2.9	47

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76	Degradable Self-Assembling Dendrons for Gene Delivery: Experimental and Theoretical Insights into the Barriers to Cellular Uptake. <i>Journal of the American Chemical Society</i> , 2011, 133, 20288-20300.	6.6	166
78	Structure-Activity Study To Develop Cationic Lipid-Conjugated Haloperidol Derivatives as a New Class of Anticancer Therapeutics. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 2378-2390.	2.9	32
79	Synthesis and efficient siRNA delivery of polyamine-conjugated cationic nucleoside lipids. <i>MedChemComm</i> , 2011, 2, 505.	3.5	20
80	The development of poly-L-arginine-coated liposomes for gene delivery. <i>International Journal of Nanomedicine</i> , 2011, 6, 2245.	3.3	18
81	Reconfiguring polylysine architectures for controlling polyplex binding and non-viral transfection. <i>Biomaterials</i> , 2011, 32, 2432-2444.	5.7	50
82	Non-Viral Gene Delivery Systems Based on Cholesterol Cationic Lipids: Structure-Activity Relationships. , 0, , .		0
83	Influence of phospholipid composition on cationic emulsions/DNA complexes: physicochemical properties, cytotoxicity, and transfection on Hep G2 cells. <i>International Journal of Nanomedicine</i> , 2011, 6, 2213.	3.3	14
84	Can Neutral Liposomes be Considered as Genetic Material Carriers for Human Gene Therapy?. <i>Mini-Reviews in Organic Chemistry</i> , 2011, 8, 38-48.	0.6	10
85	Improving siRNA Bio-Distribution and Minimizing Side Effects. <i>Current Drug Metabolism</i> , 2011, 12, 11-23.	0.7	48
86	TACN-containing cationic lipids with ester bond: Preparation and application in gene delivery. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 7045-7049.	1.0	23
87	Restitution of Tumor Suppressor MicroRNAs Using a Systemic Nanovector Inhibits Pancreatic Cancer Growth in Mice. <i>Molecular Cancer Therapeutics</i> , 2011, 10, 1470-1480.	1.9	279
88	Comparing dendritic and self-assembly strategies to multivalency- α RGD peptide-integrin interactions. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 4795.	1.5	45
89	The influence of the structural orientation of amide linkers on the serum compatibility and lung transfection properties of cationic amphiphiles. <i>Biomaterials</i> , 2011, 32, 5231-5240.	5.7	36
90	Nanoparticle-delivered VEGF-silencing cassette and suicide gene expression cassettes inhibit colon carcinoma growth in vitro and in vivo. <i>Tumor Biology</i> , 2011, 32, 1103-1111.	0.8	14
91	Synthesis and evaluation of new imidazolium-based aromatic ether functionalized cationic mono and gemini surfactants. <i>European Journal of Lipid Science and Technology</i> , 2011, 113, 756-762.	1.0	17
92	Transfection efficiency and intracellular fate of polycation liposomes combined with protamine. <i>Biomaterials</i> , 2011, 32, 1412-1418.	5.7	53
93	Recent Patents in Cationic Lipid Carriers for Delivery of Nucleic Acids. <i>Recent Patents on DNA & Gene Sequences</i> , 2011, 5, 8-27.	0.7	33
94	The Actin Cytoskeleton Has an Active Role in the Electrotransfer of Plasmid DNA in Mammalian Cells. <i>Molecular Therapy</i> , 2011, 19, 913-921.	3.7	72

#	ARTICLE	IF	CITATIONS
95	Liposomes for Use in Gene Delivery. <i>Journal of Drug Delivery</i> , 2011, 2011, 1-12.	2.5	294
96	Inhibition of <i>PAX2</i> Gene Expression by siRNA (Polyethylenimine) in Experimental Model of Obstructive Nephropathy. <i>Renal Failure</i> , 2012, 34, 1288-1296.	0.8	8
97	Targeted lipid-based systems for siRNA delivery. <i>Journal of Drug Delivery Science and Technology</i> , 2012, 22, 65-73.	1.4	4
98	Cationic lipids activate intracellular signaling pathways. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 1749-1758.	6.6	172
99	Europium-Doped TiO ₂ Hollow Nanoshells: Two-Photon Imaging of Cell Binding. <i>Chemistry of Materials</i> , 2012, 24, 4222-4230.	3.2	45
100	Analysis of gemcitabine liposome injection by HPLC with evaporative light scattering detection. <i>Journal of Liposome Research</i> , 2012, 22, 263-269.	1.5	8
101	Polyether based amphiphiles for delivery of active components. <i>Polymer</i> , 2012, 53, 3053-3078.	1.8	106
102	Homodimeric SV40 NLS peptide formed by disulfide bond as enhancer for gene delivery. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 5415-5418.	1.0	26
103	Cationic liposome/DNA complexes: from structure to interactions with cellular membranes. <i>European Biophysics Journal</i> , 2012, 41, 815-829.	1.2	93
104	Mucosal Vaccine Design and Delivery. <i>Annual Review of Biomedical Engineering</i> , 2012, 14, 17-46.	5.7	182
105	Glycine-Terminated Dendritic Amphiphiles for Nonviral Gene Delivery. <i>Biomacromolecules</i> , 2012, 13, 3087-3098.	2.6	60
106	The effect of a nuclear localization sequence on transfection efficacy of genes delivered by cobalt(II)-polybenzimidazole complexes. <i>Biomaterials</i> , 2012, 33, 7884-7894.	5.7	32
107	Cationic Dimyristoylphosphatidylcholine and Dioleoyloxytrimethylammonium Propane Lipid Bilayers: Atomistic Insight for Structure and Dynamics. <i>Journal of Physical Chemistry B</i> , 2012, 116, 269-276.	1.2	25
108	Dendritic and lipid-based carriers for gene/siRNA delivery (a review). <i>Current Opinion in Solid State and Materials Science</i> , 2012, 16, 310-322.	5.6	40
109	Liposomes a Vesicular Nanocarrier: Potential Advancements in Cancer Chemotherapy. <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> , 2012, 29, 355-419.	1.2	27
110	Influence of charge ratio of liposome/DNA complexes on their size after extrusion and transfection efficiency. <i>International Journal of Nanomedicine</i> , 2012, 7, 393.	3.3	23
111	Functional lipids and lipoplexes for improved gene delivery. <i>Biochimie</i> , 2012, 94, 42-58.	1.3	124
113	Self-Assembled Multivalency: Dynamic Ligand Arrays for High-Affinity Binding. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6572-6581.	7.2	157

#	ARTICLE	IF	CITATIONS
114	Cationic liposomes containing soluble Leishmania antigens (SLA) plus CpG ODNs induce protection against murine model of leishmaniasis. <i>Parasitology Research</i> , 2012, 111, 105-114.	0.6	32
115	Influence of lipid components on gene delivery by polycation liposomes: Transfection efficiency, intracellular kinetics and in vivo tumor inhibition. <i>International Journal of Pharmaceutics</i> , 2012, 422, 510-515.	2.6	9
116	Highly efficient double-stranded RNA transfection of penaeid shrimp using cationic liposomes. <i>Aquaculture Research</i> , 2013, 45, 106-112.	0.9	11
117	Thermally sensitive polypeptide-based copolymer for DNA complexation into stable nanosized polyplexes. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	13
118	Induction of CC-Chemokines with Antiviral Function in Macrophages by the Human T Lymphotropic Virus Type 2 Transactivating Protein, Tax2. <i>Viral Immunology</i> , 2013, 26, 3-12.	0.6	11
119	Synergistic effect of a biosurfactant and protamine on gene transfection efficiency. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 49, 1-9.	1.9	13
120	Hsp90-targeted miRNA-liposomal formulation for systemic antitumor effect. <i>Biomaterials</i> , 2013, 34, 6804-6817.	5.7	24
121	Oligoamines grafted hyperbranched polyether as high efficient and serum-tolerant gene vectors. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 732-740.	2.5	9
122	Tuning the Self-Assembling of Pyridinium Cationic Lipids for Efficient Gene Delivery into Neuronal Cells. <i>Biomacromolecules</i> , 2013, 14, 2750-2764.	2.6	18
123	The Headgroup Evolution of Cationic Lipids for Gene Delivery. <i>Bioconjugate Chemistry</i> , 2013, 24, 487-519.	1.8	216
124	Natural or synthetic nucleic acids encapsulated in a closed cavity of amphiphiles. <i>RSC Advances</i> , 2013, 3, 8618.	1.7	2
125	Investigations of Host-Guest Interactions with Shape-Persistent Nonionic Dendritic Micelles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12307-12317.	1.5	19
126	Topical delivery of anti-TNF α siRNA and capsaicin via novel lipid-polymer hybrid nanoparticles efficiently inhibits skin inflammation in vivo. <i>Journal of Controlled Release</i> , 2013, 170, 51-63.	4.8	149
127	Metal-polybenzimidazole complexes as a nonviral gene carrier: Effects of the DNA affinity on gene delivery. <i>Journal of Inorganic Biochemistry</i> , 2013, 129, 102-111.	1.5	15
128	A Polyethylenimine-Linoleic Acid Conjugate for Antisense Oligonucleotide Delivery. <i>BioMed Research International</i> , 2013, 2013, 1-7.	0.9	48
129	Cobalt(II)-Polybenzimidazole Complexes as a Nonviral Gene Carrier: Effects of Charges and Benzimidazolyl Groups. <i>Current Drug Delivery</i> , 2013, 10, 122-133.	0.8	12
130	Polylipid Nanoparticle, a Novel Lipid-Based Vector for Liver Gene Transfer. , 2013, , .		2
131	Recent Trends of Polymer Mediated Liposomal Gene Delivery System. <i>BioMed Research International</i> , 2014, 2014, 1-15.	0.9	17

#	ARTICLE	IF	CITATIONS
132	Development of new estradiol-cationic lipid hybrids: Ten-carbon twin chain cationic lipid is a more suitable partner for estradiol to elicit better anticancer activity. <i>European Journal of Medicinal Chemistry</i> , 2014, 86, 653-663.	2.6	20
133	On the possible involvement of bovine serum albumin precursor in lipofection pathway. <i>Journal of Biosciences</i> , 2014, 39, 43-52.	0.5	0
134	Efficient in vivo gene delivery using modified Tat peptide with cationic lipids. <i>Biotechnology Letters</i> , 2014, 36, 1447-1452.	1.1	3
135	Plasmid DNA hydrogels for biomedical applications. <i>Advances in Colloid and Interface Science</i> , 2014, 205, 257-264.	7.0	15
136	Electrospray ionization tandem mass spectrometry study of six isomeric cationic amphiphiles with ester/amide linker. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1209-1214.	0.7	5
137	Formulation of curcumin delivery with functionalized single-walled carbon nanotubes: characteristics and anticancer effects <i>in vitro</i> . <i>Drug Delivery</i> , 2014, 21, 379-387.	2.5	65
138	Novel Gemini cationic lipids with carbamate groups for gene delivery. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2920-2928.	2.9	28
139	Enantioselective DNA condensation induced by heptameric lanthanum helical supramolecular enantiomers. <i>Journal of Inorganic Biochemistry</i> , 2014, 138, 73-80.	1.5	10
140	Challenging the future of siRNA therapeutics against cancer: the crucial role of nanotechnology. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 1417-1438.	2.4	25
141	Biosafe Nanoscale Pharmaceutical Adjuvant Materials. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 2393-2419.	0.5	27
142	Effects of acoustic streaming from moderate-intensity pulsed ultrasound for enhancing biofilm mitigation effectiveness of drug-loaded liposomes. <i>Journal of the Acoustical Society of America</i> , 2015, 138, 1043-1051.	0.5	24
143	Combinatorial library strategies for synthesis of cationic lipid-like nanoparticles and their potential medical applications. <i>Nanomedicine</i> , 2015, 10, 643-657.	1.7	53
144	±-Tocopherol derived lipid dimers as efficient gene transfection agents. Mechanistic insights into lipoplex internalization and therapeutic induction of apoptotic activity. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2444-2452.	1.5	16
145	Solid lipid nanoparticles as nucleic acid delivery system: Properties and molecular mechanisms. <i>Journal of Controlled Release</i> , 2015, 201, 1-13.	4.8	106
146	A near infrared fluorescent/ultrasonic bimodal contrast agent for imaging guided pDNA delivery via ultrasound targeted microbubble destruction. <i>RSC Advances</i> , 2015, 5, 8404-8414.	1.7	11
147	Polycationic Macrocyclic Scaffolds as Potential Non-Viral Vectors of DNA: A Multidisciplinary Study. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14404-14414.	4.0	15
148	Examples of Tumor Growth Inhibition Properties of Liposomal Formulations of pH-Sensitive Histidinylated Cationic Amphiphiles. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 646-655.	2.6	11
149	PEGylated cationic nanoemulsions can efficiently bind and transfect pDNA in a mucopolysaccharidosis type I murine model. <i>Journal of Controlled Release</i> , 2015, 209, 37-46.	4.8	23

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150	Noninvasive theranostic imaging of HSV-TK/GCV suicide gene therapy in liver cancer by folate-targeted quantum dot-based liposomes. <i>Biomaterials Science</i> , 2015, 3, 833-841.	2.6	55
151	Self-Assembly, Supramolecular Organization, and Phase Behavior of <i>L</i> -Alanine Alkyl Esters ($n = 9-18$) and Characterization of Equimolar <i>L</i> -Alanine Lauryl Ester/Lauryl Sulfate Catanionic Complex. <i>Langmuir</i> , 2015, 31, 9546-9556.	1.6	25
152	Synthesis and validation of novel cholesterol-based fluorescent lipids designed to observe the cellular trafficking of cationic liposomes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 3893-3896.	1.0	6
153	Self-Amplifying mRNA Vaccines. <i>Advances in Genetics</i> , 2015, 89, 179-233.	0.8	130
154	Polymers in gene therapy technology. <i>Polymers for Advanced Technologies</i> , 2015, 26, 198-211.	1.6	50
155	Niosomes based on synthetic cationic lipids for gene delivery: the influence of polar head-groups on the transfection efficiency in HEK-293, ARPE-19 and MSC-D1 cells. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 1068-1081.	1.5	50
156	Pharmaceutical Biotechnology. , 0, , .		7
157	Nano-materials for Gene Therapy: An Efficient Way in Overcoming Challenges of Gene Delivery. <i>Journal of Biosensors & Bioelectronics</i> , 2016, 07, .	0.4	23
158	Getting into the brain: liposome-based strategies for effective drug delivery across the blood–brain barrier. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 5381-5414.	3.3	301
159	Gene Therapy for Pyoderma Gangrenosum: Optimal Transfection Conditions and Effect of Drugs on Gene Delivery in the HaCaT Cell Line Using Cationic Liposomes. <i>Skin Pharmacology and Physiology</i> , 2016, 29, 119-129.	1.1	12
160	Pharmaceutical liposomal drug delivery: a review of new delivery systems and a look at the regulatory landscape. <i>Drug Delivery</i> , 2016, 23, 3319-3329.	2.5	461
161	Vitamin E-Labeled Polyethylenimine for <i>in vitro</i> and <i>in vivo</i> Gene Delivery. <i>Biomacromolecules</i> , 2016, 17, 3153-3161.	2.6	25
162	Asymmetric cationic lipid based non-viral vectors for an efficient nucleic acid delivery. <i>RSC Advances</i> , 2016, 6, 77841-77848.	1.7	17
163	Elaboration and Physicochemical Characterization of Niosome-Based Nioplexes for Gene Delivery Purposes. <i>Methods in Molecular Biology</i> , 2016, 1445, 63-75.	0.4	15
164	Efficient Cellular Knockdown Mediated by siRNA Nanovectors of Gemini Cationic Lipids Having Delocalizable Headgroups and Oligo-Oxyethylene Spacers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22113-22126.	4.0	32
165	Effect of Mechanical Agitation on Cationic Liposome Transport across an Unstirred Water Layer in Caco-2 Cells. <i>Biological and Pharmaceutical Bulletin</i> , 2016, 39, 1293-1299.	0.6	18
166	Di-Peptide-Modified Gemini Surfactants as Gene Delivery Vectors: Exploring the Role of the Alkyl Tail in Their Physicochemical Behavior and Biological Activity. <i>AAPS Journal</i> , 2016, 18, 1168-1181.	2.2	22
167	Gene therapy of arthritis. <i>Russian Journal of Genetics</i> , 2016, 52, 543-556.	0.2	0

#	ARTICLE	IF	CITATIONS
168	Chapter 4 Polyglycerols in Nanomedicine. , 2016, , 107-200.		0
169	Effects of heterocyclic-based head group modifications on the structure–activity relationship of tocopherol-based lipids for non-viral gene delivery. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 6857-6870.	1.5	26
170	Glycyrrhetic Acid Mediated Drug Delivery Carriers for Hepatocellular Carcinoma Therapy. <i>Molecular Pharmaceutics</i> , 2016, 13, 699-709.	2.3	113
171	Delivering anti-cancer drugs with endosomal pH-sensitive anti-cancer liposomes. <i>Biomaterials Science</i> , 2016, 4, 627-638.	2.6	44
172	Design, synthesis and in vitro evaluation of D-glucose-based cationic glycolipids for gene delivery. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 1611-1622.	1.5	6
173	Effect of High-Intensity Focused Ultrasound on Drug Release from Doxorubicin-Loaded PEGylated Liposomes and Therapeutic Effect in Colorectal Cancer Murine Models. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 947-955.	0.7	11
174	The role of helper lipids in the intracellular disposition and transfection efficiency of niosome formulations for gene delivery to retinal pigment epithelial cells. <i>International Journal of Pharmaceutics</i> , 2016, 503, 115-126.	2.6	34
175	Functionalized lipids and surfactants for specific applications. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2362-2379.	1.4	19
176	The influence of the polar head-group of synthetic cationic lipids on the transfection efficiency mediated by niosomes in rat retina and brain. <i>Biomaterials</i> , 2016, 77, 267-279.	5.7	59
177	Recent progress in gene therapy to deliver nucleic acids with multivalent cationic vectors. <i>Advances in Colloid and Interface Science</i> , 2016, 233, 161-175.	7.0	84
178	Preliminary study of a novel transfection modality for in vivo siRNA delivery to vocal fold fibroblasts. <i>Laryngoscope</i> , 2017, 127, E231-E237.	1.1	13
179	An anti-oxidant, \pm -lipoic acid conjugated oleoyl- sn -phosphatidylcholines a helper lipid in cationic liposomal formulations. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 152, 133-142.	2.5	7
180	Novel 1,2,3-triazolium-based dicationic amphiphiles synthesized using click-chemistry approach for efficient plasmid delivery. <i>MedChemComm</i> , 2017, 8, 989-999.	3.5	8
181	Saturated Fatty Acid Analogues of Cell-Penetrating Peptide PepFect14: Role of Fatty Acid Modification in Complexation and Delivery of Splice-Correcting Oligonucleotides. <i>Bioconjugate Chemistry</i> , 2017, 28, 782-792.	1.8	47
182	Recent development of synthetic nonviral systems for sustained gene delivery. <i>Drug Discovery Today</i> , 2017, 22, 1318-1335.	3.2	96
183	Plasmid transfection in bovine cells: Optimization using a realtime monitoring of green fluorescent protein and effect on gene reporter assay. <i>Gene</i> , 2017, 626, 200-208.	1.0	22
184	Scaling the effect of hydrophobic chain length on gene transfer properties of di-alkyl, di-hydroxy ethylammonium chloride based cationic amphiphiles. <i>RSC Advances</i> , 2017, 7, 25398-25405.	1.7	13
185	Evolution of New α -Bola liposomes–using Novel \pm -Tocopheryl Succinate Based Cationic Lipid and 1,12-Disubstituted Dodecane-Based Bolaamphiphile for Efficient Gene Delivery. <i>Bioconjugate Chemistry</i> , 2017, 28, 1965-1977.	1.8	12

#	ARTICLE	IF	CITATIONS
186	Biophysics and protein corona analysis of Janus cyclodextrin-DNA nanocomplexes. Efficient cellular transfection on cancer cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1737-1749.	1.1	16
187	Utilizing Inverse Emulsion Polymerization To Generate Responsive Nanogels for Cytosolic Protein Delivery. <i>Molecular Pharmaceutics</i> , 2017, 14, 4515-4524.	2.3	29
188	Green Transfection: Cationic Lipid Nanocarrier System Derivatized from Vegetable Fat, Palmstearin Enhances Nucleic Acid Transfections. <i>ACS Omega</i> , 2017, 2, 7892-7903.	1.6	19
189	Improving the efficacy of liposome-mediated vascular gene therapy via lipid surface modifications. <i>Journal of Surgical Research</i> , 2017, 219, 136-144.	0.8	30
190	Factors influencing transfection efficiency of pIDUA/nanoemulsion complexes in a mucopolysaccharidosis type I murine model. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 2061-2067.	3.3	9
191	Small Moleculeâ€‘Mediated Simultaneous Induction of Apoptosis and Autophagy. , 2017, , 269-290.		1
192	Ultrasoundâ€‘targeted microbubble destructionâ€‘mediated Foxp3 knockdown may suppress the tumor growth of HCC mice by relieving immunosuppressive Tregs function. <i>Experimental and Therapeutic Medicine</i> , 2017, 15, 31-38.	0.8	7
193	Nanoparticle delivery of RNAâ€‘based therapeutics to alter the vocal fold tissue response to injury. <i>Laryngoscope</i> , 2018, 128, E178-E183.	1.1	10
194	siRNA Delivery Using a Cationic-Lipid-Based Highly Selective Human DNA Ligase I Inhibitor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1616-1622.	4.0	10
195	Cationic liposomes formulated with a novel whole <i>Leishmania lysate</i> (WLL) as a vaccine for leishmaniasis in murine model. <i>Immunobiology</i> , 2018, 223, 493-500.	0.8	17
196	A review on cationic lipids with different linkers for gene delivery. <i>Advances in Colloid and Interface Science</i> , 2018, 253, 117-140.	7.0	107
197	Structure and kinetics of synthetic, lipid-based nucleic acid carriers. , 2018, , 529-562.		4
198	Efficiency and cytotoxicity analysis of cationic lipids-mediated gene transfection into AGS gastric cancer cells. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1001-1008.	1.9	16
199	Synthesis of Cationic Amphiphilic Surface-Block Polyester Dendrimers. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 383-398.	1.9	1
200	Lysine-containing cationic liposomes activate the NLRP3 inflammasome: Effect of a spacer between the head group and the hydrophobic moieties of the lipids. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 279-288.	1.7	22
201	Hyaluronic acid hydrogel scaffolds loaded with cationic niosomes for efficient non-viral gene delivery. <i>RSC Advances</i> , 2018, 8, 31934-31942.	1.7	29
202	Peptide Mediated Brain Delivery of Nano- and Submicroparticles: A Synergistic Approach. <i>Current Pharmaceutical Design</i> , 2018, 24, 1366-1376.	0.9	23
203	Hyaluronan Reduces Cationic Liposome-Induced Toxicity and Enhances the Antitumor Effect of Targeted Gene Delivery in Mice. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32006-32016.	4.0	43

#	ARTICLE	IF	CITATIONS
204	Novel carbamate-linked quaternary ammonium lipids containing unsaturated hydrophobic chains for gene delivery. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 3535-3540.	1.4	9
205	Synthesis and Comparative Evaluation of Novel Cationic Amphiphile C12-Man-Q as an Efficient DNA Delivery Agent In Vitro. <i>Molecules</i> , 2018, 23, 1540.	1.7	8
206	Dipalmitoylphosphatidylcholine (DPPC): Annealing Strategy to Mitigate Variability in Thermotropic and Moisture Sorption Behavior. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 2635-2642.	1.6	3
207	Transfection by cationic gemini lipids and surfactants. <i>MedChemComm</i> , 2018, 9, 1404-1425.	3.5	28
208	MicroRNA responses associated with <i>Salmonella enterica</i> serovar typhimurium challenge in peripheral blood: effects of miR-146a and IFN- γ in regulation of fecal bacteria shedding counts in pig. <i>BMC Veterinary Research</i> , 2019, 15, 195.	0.7	8
209	Dendrimer functionalized carbon quantum dot for selective detection of breast cancer and gene therapy. <i>Chemical Engineering Journal</i> , 2019, 373, 468-484.	6.6	101
210	Non-viral Vector for Muscle-Mediated Gene Therapy. , 2019, , 157-178.		1
211	Non-viral vectors based on cationic niosomes and minicircle DNA technology enhance gene delivery efficiency for biomedical applications in retinal disorders. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 17, 308-318.	1.7	39
213	Non-viral mediated gene therapy in human cystic fibrosis airway epithelial cells recovers chloride channel functionality. <i>International Journal of Pharmaceutics</i> , 2020, 588, 119757.	2.6	15
214	Nanosystems against candidiasis: a review of studies performed over the last two decades. <i>Critical Reviews in Microbiology</i> , 2020, 46, 508-547.	2.7	22
216	Polymeric nano-carriers for on-demand delivery of genes <i>via</i> specific responses to stimuli. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9621-9641.	2.9	22
217	Non-ionic small amphiphile based nanostructures for biomedical applications. <i>RSC Advances</i> , 2020, 10, 42098-42115.	1.7	25
218	Liposomal maneuvers against Parkinson's disease. , 2020, , 75-88.		0
219	Cationic liposomes for generic signal amplification strategies in bioassays. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3383-3393.	1.9	6
220	Development of new self-assembled cationic amino liposomes for efficient gene delivery. <i>Biomaterials Science</i> , 2020, 8, 3021-3025.	2.6	13
221	Brain Angiogenesis Induced by Nonviral Gene Therapy with Potential Therapeutic Benefits for Central Nervous System Diseases. <i>Molecular Pharmaceutics</i> , 2020, 17, 1848-1858.	2.3	9
222	Drug delivery performance of nanocarriers based on adhesion and interaction for abdominal aortic aneurysm treatment. <i>International Journal of Pharmaceutics</i> , 2021, 594, 120153.	2.6	20
223	Use of artificial cells as drug carriers. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6672-6692.	3.2	20

#	ARTICLE	IF	CITATIONS
224	Tailoring the cationic lipid composition of lipo-DVDMS augments the phototherapy efficiency of burn infection. <i>Biomaterials Science</i> , 2021, 9, 2053-2066.	2.6	6
225	Î±-Tocopherol-anchored gemini lipids with delocalizable cationic head groups: the effect of spacer length on DNA compaction and transfection properties. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 4565-4576.	1.5	13
226	Multifunctional Neomycin-Triazine-Based Cationic Lipids for Gene Delivery with Antibacterial Properties. <i>Bioconjugate Chemistry</i> , 2021, 32, 690-701.	1.8	11
227	Glucocorticoid receptor-targeted liposomal delivery system for delivering small molecule ESC8 and anti-miR-Hsp90 gene construct to combat colon cancer. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 024105.	1.7	9
230	Enhanced gene expression by a novel designed leucine zipper endosomolytic peptide. <i>International Journal of Pharmaceutics</i> , 2021, 601, 120556.	2.6	5
231	Liposomes: Structure, Biomedical Applications, and Stability Parameters With Emphasis on Cholesterol. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 705886.	2.0	248
233	Non-viral Vectors for Gene Therapy. , 2020, , 23-37.		2
234	Mini review on emerging methods of preparation of liposome and its application as Liposome drug delivery systems. , 2017, 3, 005-021.		14
235	Lipid-based Nanocarriers for siRNA Delivery: Challenges, Strategies and the Lessons Learned from the DODAX: MO Liposomal System. <i>Current Drug Targets</i> , 2018, 20, 29-50.	1.0	16
236	Synthesis and Optimization of Cholesterol-Based Diquaternary Ammonium Gemini Surfactant (Chol-GS) as a New Gene Delivery Vector. <i>Journal of Microbiology and Biotechnology</i> , 2011, 21, 93-99.	0.9	22
237	Delivery Strategies for RNAi to the Nervous System. <i>Neuromethods</i> , 2011, , 59-76.	0.2	0
238	Mucosal Immunology and Oral Vaccination. , 2014, , 15-42.		1
240	Liposome-based targeted delivery of anticancer drugs for effective therapy of brain tumors. , 2019, , 43-78.		0
241	Mesenchymal Stem Cells: A New Generation of Therapeutic Agents as Vehicles in Gene Therapy. <i>Current Gene Therapy</i> , 2020, 20, 269-284.	0.9	3
243	Review on Different Vesicular Drug Delivery Systems (VDDSs) and Their Applications. <i>Recent Patents on Nanotechnology</i> , 2023, 17, 18-32.	0.7	8
244	Nanodiamond Integration into Niosomes as an Emerging and Efficient Gene Therapy Nanoplatfrom for Central Nervous System Diseases. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13665-13677.	4.0	11
245	Î±-Tocopherol-Î±-Conjugated, Open Chain Sugar-Î±-Mimicking Cationic Lipids: Design, Synthesis and Inâ€“Vitro Gene Transfection Properties. <i>ChemistrySelect</i> , 2021, 6, 13025-13033.	0.7	2
247	The Progress and Promise of RNA Medicineâ€“An Arsenal of Targeted Treatments. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 6975-7015.	2.9	42

#	ARTICLE	IF	CITATIONS
248	Transport of cationic liposomes in a human blood brain barrier model: Role of the stereochemistry of the gemini amphiphile on liposome biological features. Journal of Colloid and Interface Science, 2022, 627, 283-298.	5.0	9
249	Appraisal for the Potential of Viral and Nonviral Vectors in Gene Therapy: A Review. Genes, 2022, 13, 1370.	1.0	31
251	Etoposideâ€Entrapped Progesteroneâ€Cationic Lipid Nanoaggregates as Selective Therapeutics against Etoposideâ€Resistant Colorectal Cancer Cells. ChemBioChem, 0, , .	1.3	0