Thierry Benvegnu

List of Publications by Year
in descending order

59	1,670	331670 21	302126 39
papers	citations	h-index	g-index

63	63	63	1748
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Progress in Cationic Lipid-Mediated Gene Transfection: A Series of Bio- Inspired Lipids as an Example. Current Gene Therapy, 2008, 8, 296-312.	2.0	137
2	Archaeal tetraether bipolar lipids: Structures, functions and applications. Biochimie, 2009, 91, 711-717.	2.6	103
3	Archaeabacteria bipolar lipid analogues: structure, synthesis and lyotropic properties. Current Opinion in Colloid and Interface Science, 2004, 8, 469-479.	7.4	100
4	Dendritic Cell Targeting mRNA Lipopolyplexes Combine Strong Antitumor T-Cell Immunity with Improved Inflammatory Safety. ACS Nano, 2018, 12, 9815-9829.	14.6	98
5	Efficient Synthesis of Unsymmetrical Bolaamphiphiles for Spontaneous Formation of Vesicles and Disks with a Transmembrane Organization. Langmuir, 2001, 17, 613-618.	3.5	72
6	New Generation of Liposomes Called Archaeosomes Based on Natural or Synthetic Archaeal Lipids as Innovative Formulations for Drug Delivery. Recent Patents on Drug Delivery and Formulation, 2009, 3, 206-220.	2.1	66
7	Synthesis of Archaeal Bipolar Lipid Analogues:Â A Way to Versatile Drug/Gene Delivery Systems. Journal of Organic Chemistry, 2007, 72, 8267-8279.	3.2	59
8	Glycine betaine as a renewable raw material to â€œgreenerâ€• new cationic surfactants. Green Chemistry, 2008, 10, 310.	9.0	56
9	Archaeal Lipids: Innovative Materials for Biotechnological Applications. European Journal of Organic Chemistry, 2008, 2008, 4725-4744.	2.4	55
10	Selective gene delivery in dendritic cells with mannosylated and histidylated lipopolyplexes. Journal of Drug Targeting, 2011, 19, 315-325.	4.4	55
11	Extracted and depolymerized alginates from brown algae Sargassum vulgare of Lebanese origin: chemical, rheological, and antioxidant properties. Journal of Applied Phycology, 2016, 28, 1915-1929.	2.8	52
12	Folateâ€Equipped Pegylated Archaeal Lipid Derivatives: Synthesis and Transfection Properties. Chemistry - A European Journal, 2008, 14, 8330-8340.	3.3	49
13	A convenient synthesis of disaccharides containing furanoside units. Carbohydrate Research, 1997, 299, 7-14.	2.3	48
14	Highly efficient gene transfer into hepatocyteâ€like HepaRG cells: New means for drug metabolism and toxicity studies. Biotechnology Journal, 2010, 5, 314-320.	3.5	46
15	Self-Organization and Formation of Liquid Crystal Phases by Molecular Templates Related to Membrane Components of Archaebacteria. Angewandte Chemie - International Edition, 1998, 37, 2511-2515.	13.8	44
16	Hornerâ€“Wadsworthâ€“Emmons Reaction of Unprotected Sugars in Water or in the Absence of Any Solvent: Oneâ€Step Access to Câ€Glycoside Amphiphiles. European Journal of Organic Chemistry, 2010, 2010, 1314-1323.	2.4	40
17	Synthesis and Supramolecular Assemblies of Bipolar Archaeal Glycolipid Analogues Containing a cis-1,3-Disubstituted Cyclopentane Ring. Journal of the American Chemical Society, 2004, 126, 10003-10012.	13.7	39
18	Cationic lipids derived from glycine betaine promote efficient and non-toxic gene transfection in cultured hepatocytes. Journal of Gene Medicine, 2002, 4, 415-427.	2.8	33

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19	Preparation and Characterization of Stealth Archaeosomes Based on a Synthetic PEGylated Archaeal Tetraether Lipid. Journal of Drug Delivery, 2011, 2011, 1-11.	2.5	32
20	Synthetic Approaches to Novel Archaeal Tetraether Glycolipid Analoguesâ€. Journal of Organic Chemistry, 1999, 64, 3139-3150.	3.2	28
21	Supramolecular Self-Assembling Properties of Membrane-Spanning Archaeal Tetraether Glycolipid Analogues. Chemistry - A European Journal, 2002, 8, 585-593.	3.3	27
22	Interactions and hybrid complex formation of anionic algal polysaccharides with a cationic glycine betaine-derived surfactant. Carbohydrate Polymers, 2015, 121, 436-448.	10.2	23
23	Extracted ulvans from green algae Ulva linza of Lebanese origin and amphiphilic derivatives: evaluation of their physico-chemical and rheological properties. Journal of Applied Phycology, 2019, 31, 1931-1946.	2.8	23
24	Synthesis and liquid-crystalline properties of novel archaeal diether-type glycolipids possessing one or two furanosyl units. Carbohydrate Research, 1998, 314, 65-77.	2.3	21
25	Diastereospecific synthesis and amphiphilic properties of new alkyl Î²-D-fructopyranosides. Journal of the Chemical Society Perkin Transactions II, 1999, , 951-960.	0.9	20
26	Synthesis and Physico-Chemical Properties of Novel Biocompatible AlkylD-Mannopyranosiduronate Surfactants Derived from Alginate. European Journal of Organic Chemistry, 2005, 2005, 3085-3094.	2.4	20
27	How the Stereochemistry of a Central Cyclopentyl Ring Influences the Self-Assembling Properties of Archaeal Lipid Analogues: Synthesis and CryoTEM Observations. Journal of Organic Chemistry, 2011, 76, 9738-9747.	3.2	20
28	Folate-Equipped Nanolipoplexes Mediated Efficient Gene Transfer into Human Epithelial Cells. International Journal of Molecular Sciences, 2013, 14, 1477-1501.	4.1	20
29	Glycoside Hydrolases and Glycosyltransferases from Hyperthermophilic Archaea: Insights on Their Characteristics and Applications in Biotechnology. Biomolecules, 2021, 11, 1557.	4.0	20
30	Effects of a Novel Archaeal Tetraether-Based Colipid on the In Vivo Gene Transfer Activity of Two Cationic Amphiphiles. Molecular Pharmaceutics, 2014, 11, 2973-2988.	4.6	19
31	Synthesis of unsymmetrical saturated or diacetylenic cationic bolaamphiphiles. Tetrahedron Letters, 2008, 49, 7419-7422.	1.4	18
32	Stereochemical Effect Revealed in Self-Assemblies Based on Archaeal Lipid Analogues Bearing a Central Five-Membered Carbocycle: A SAXS Study. Langmuir, 2012, 28, 7591-7597.	3.5	18
33	Air/water interface study of cyclopentane-containing archaeal bipolar lipid analogues. Chemistry and Physics of Lipids, 2010, 163, 794-799.	3.2	12
34	Oligomannuronates from Seaweeds as Renewable Sources for the Development of Green Surfactants. Topics in Current Chemistry, 2010, 294, 143-164.	4.0	12
35	Structural and rheological properties of kappa (Î°)-carrageenans covalently modified with cationic moieties. Journal of Polymer Research, 2016, 23, 1.	2.4	12
36	Isolation of Bioactive Compounds from Calicotome villosa Stems. Molecules, 2018, 23, 851.	3.8	12

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37	n-Pentenyl Furanosides and Related Glycosyl Donors for the Synthesis of Archaeol Glycolipid Analogues. Synlett, 1996, 1996, 817-819.	1.8	11
38	Synthesis of 1-octadecyl 5-betainylamino-5-deoxy-Î²-d-fructopyranoside hydrochloride as a new long-chain cationic sugar-based surfactant. Carbohydrate Research, 2009, 344, 136-139.	2.3	11
39	Synthesis of a trimannosylated-equipped archaeal diether lipid for the development of novel glycoliposomes. Carbohydrate Research, 2016, 435, 142-148.	2.3	11
40	Model Affitin and PEG modifications onto siRNA lipid nanocapsules: cell uptake and in vivo biodistribution improvements. RSC Advances, 2019, 9, 27264-27278.	3.6	11
41	Supramolecular Structures Based on New Bolaamphiphile Molecules Investigated by Small Angle and Wide Angle X-ray Scattering and Polarized Optical Microscopy. Journal of Physical Chemistry B, 2009, 113, 15433-15444.	2.6	10
42	Synthesis and evaluation of C-glycosides as hydrotropes and solubilizing agents. Science China Chemistry, 2010, 53, 1957-1962.	8.2	10
43	An efficient synthesis of analogues of unsymmetrical archaeal tetraether glycolipids. Chemical Communications, 1998, , 1571-1572.	4.1	9
44	Surfactants from Renewable Sources: Synthesis and Applications. , 2008, , 153-178.		9
45	Folate-conjugated stealth archaeosomes for the targeted delivery of novel antitumoral peptides. RSC Advances, 2016, 6, 75234-75241.	3.6	9
46	Transformation of Pectins into Non-Ionic or Anionic Surfactants Using a One-Pot and Cascade Mode Process. Molecules, 2021, 26, 1956.	3.8	7
47	Aerosol-Mediated Non-Viral Lung Gene Therapy: The Potential of Aminoglycoside-Based Cationic Liposomes. Pharmaceutics, 2022, 14, 25.	4.5	7
48	Synthesis of a novel archaeal tetraether-type lipid containing a diorthoester group as a helper lipid for gene delivery. Tetrahedron Letters, 2016, 57, 2976-2980.	1.4	6
49	Efficient transfection of Xenobiotic Responsive Element-biosensor plasmid using diether lipid and phosphatidylcholine liposomes in differentiated HepaRG cells. International Journal of Pharmaceutics, 2017, 524, 268-278.	5.2	6
50	Collapsed bipolar glycolipids at the air/water interface: Effect of the stereochemistry on the stretched/bent conformations. Journal of Colloid and Interface Science, 2013, 412, 72-81.	9.4	5
51	Direct Conversion of Alginate Oligoâ€•and Polysaccharides into Biodegradable and Nonâ€Ecotoxic Anionic Furanic Surfactantsâ€”An Experimental and Mechanistic Study. Advanced Sustainable Systems, 2021, 5, 2100108.	5.3	5
52	Î²-Anomeric selectivity in the glycosidation of d-mannofuranurono-6,3-lactone catalyzed by boron trifluoride diethyl etherate. Carbohydrate Research, 2003, 338, 375-378.	2.3	4
53	Chapter 17. Glycolipid-based nanosystems for the delivery of drugs, genes and vaccine adjuvant applications. Carbohydrate Chemistry, 2014, , 341-377.	0.3	4
54	Modification of bipolar lipid conformation at the air/water interface by a single stereochemical variation. Chemistry and Physics of Lipids, 2014, 183, 9-17.	3.2	4

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55	Regioselective synthesis of folic acid conjugates from diether-type archaeal lipid analogues. Tetrahedron, 2009, 65, 1455-1460.	1.9	3
56	Folate PEGylated archaeal lipids: Cell targeting and drug delivery. Journal of Controlled Release, 2010, 148, e115-e116.	9.9	2
57	Data on characterization of nano- and micro-structures resulting from glycine betaine surfactant/kappa-carrageenan interactions by Laser Scanning Confocal Microscopy and Transmission Electron Microscopy. Data in Brief, 2016, 9, 508-523.	1.0	2
58	Direct Conversion of Agarose into Alkyl Monoâ€•and Disaccharide Surfactants Based on 3,6â€Anhydro Lâ€• and Dâ€Galactose Units. ChemistrySelect, 2021, 6, 389-395.	1.5	2
59	Lipid bolaamphiphiles for fabricating membrane-mimetic biomaterials. , 2018, , 113-156.		0