

Bodo Dobner

List of Publications by Year in descending order

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papers

1,433
citations

304743

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377865

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docs citations

71
times ranked

1034
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature-Dependent Behavior of a Symmetric Long-Chain Bolaamphiphile with Phosphocholine Headgroups in Water: From Hydrogel to Nanoparticles. <i>Journal of the American Chemical Society</i> , 2004, 126, 16804-16813.	13.7	102
2	Synthesis, calorimetry, and X-ray diffraction of lecithins containing branched fatty acid chains. <i>Chemistry and Physics of Lipids</i> , 1986, 39, 221-236.	3.2	75
3	Self-Assembly in a Bipolar Phosphocholine-Water System: The Formation of Nanofibers and Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 245-247.	13.8	71
4	Structure-Property Relationship in Stimulus-Responsive Bolaamphiphile Hydrogels. <i>Langmuir</i> , 2007, 23, 7715-7723.	3.5	61
5	Helical Nanofibers of Self-Assembled Bipolar Phospholipids as Template for Gold Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4506-4511.	2.6	55
6	General Synthesis and Aggregation Behaviour of a Series of Single-Chain 1,1'-Bis(phosphocholines). <i>Chemistry - A European Journal</i> , 2007, 13, 5300-5307.	3.3	50
7	Temperature-Dependent Self-Assembly and Mixing Behavior of Symmetrical Single-Chain Bolaamphiphiles. <i>Langmuir</i> , 2008, 24, 6238-6246.	3.5	48
8	Conformational and thermal behavior of a pH-sensitive bolaform hydrogelator. <i>Soft Matter</i> , 2006, 2, 77-86.	2.7	47
9	Influence of the penetration enhancer isopropyl myristate on stratum corneum lipid model membranes revealed by neutron diffraction and 2H NMR experiments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 745-755.	2.6	39
10	Self-Assembled Bolaamphiphile Fibers Have Intermediate Properties between Crystalline Nanofibers and Wormlike Micelles: Formation of Viscoelastic Hydrogels Switchable by Changes in pH and Salinity. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10478-10487.	2.6	36
11	Influence of \pm -branched fatty acid chains on the thermotropic behaviours of 1-O-acyl-2-O-hexadecyl-glycerophosphocholines. <i>Chemistry and Physics of Lipids</i> , 1987, 43, 257-264.	3.2	31
12	General Synthesis and Aggregation Behaviour of New Single-Chain Bolaphospholipids: Variations in Chain and Headgroup Structures. <i>Chemistry - A European Journal</i> , 2008, 14, 6796-6804.	3.3	31
13	Formation of square lamellae by self-assembly of long-chain bolaphospholipids in water. <i>Soft Matter</i> , 2010, 6, 1317.	2.7	31
14	Characterisation of a new ceramide EOS species: synthesis and investigation of the thermotropic phase behaviour and influence on the bilayer architecture of stratum corneum lipid model membranes. <i>Soft Matter</i> , 2011, 7, 8998.	2.7	29
15	Investigation of the Protonation State of Novel Cationic Lipids Designed for Gene Transfection. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13845-13850.	2.6	27
16	Phase separation in ceramide[NP] containing lipid model membranes: neutron diffraction and solid-state NMR. <i>Soft Matter</i> , 2017, 13, 2107-2119.	2.7	27
17	Mixing behaviour of a symmetrical single-chain bolaamphiphile with phospholipids. <i>Soft Matter</i> , 2007, 3, 1025-1031.	2.7	26
18	Novel Cationic Lipids Based on Malonic Acid Amides Backbone: Transfection Efficacy and Cell Toxicity Properties. <i>Bioconjugate Chemistry</i> , 2010, 21, 696-708.	3.6	26

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19	Probing the Role of Ceramide Headgroup Polarity in Short-Chain Model Skin Barrier Lipid Mixtures by ² H Solid-State NMR Spectroscopy. <i>Langmuir</i> , 2016, 32, 2023-2031.	3.5	25
20	Impact of the ceramide subspecies on the nanostructure of stratum corneum lipids using neutron scattering and molecular dynamics simulations. Part I: impact of CER[NS]. <i>Chemistry and Physics of Lipids</i> , 2018, 214, 58-68.	3.2	24
21	General Synthesis and Physicochemical Characterisation of a Series of Peptide-Mimic Lysine-Based Amino-Functionalised Lipids. <i>Chemistry - A European Journal</i> , 2013, 19, 12824-12838.	3.3	23
22	Physical-chemical characterization of novel cationic transfection lipids and the binding of model DNA at the air-water interface. <i>Soft Matter</i> , 2011, 7, 10162.	2.7	22
23	Tuning the aggregation behaviour of single-chain bolaphospholipids in aqueous suspension: from nanoparticles to nanofibres to lamellar phases. <i>Faraday Discussions</i> , 2013, 161, 193-213.	3.2	22
24	Investigation of a CER[NP]- and [AP]-Based <i>in vitro</i> Stratum Corneum Modeling Membrane System: Using Specifically Deuterated CER Together with a Neutron Diffraction Approach. <i>Langmuir</i> , 2018, 34, 1742-1749.	3.5	22
25	Structure-property relationships in a series of diglycerol tetraether model lipids and their lyotropic assemblies: the effect of branching topology and chirality. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 3649.	2.8	21
26	Synthesis of Optically Pure Diglycerol Tetraether Model Lipids with Non-Natural Branching Pattern. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 5894-5904.	2.4	20
27	Structure-Function Relationships of New Lipids Designed for DNA Transfection. <i>ChemPhysChem</i> , 2011, 12, 2328-2337.	2.1	19
28	Localization of methyl-branched ceramide [EOS] species within the long-periodicity phase in stratum corneum lipid model membranes: A neutron diffraction study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2911-2922.	2.6	19
29	The long periodicity phase (LPP) controversy part I: The influence of a natural-like ratio of the CER[EOS] analogue [EOS]-br in a CER[NP]/[AP] based stratum corneum modelling system: A neutron diffraction study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 306-315.	2.6	19
30	Composites of malonic acid diamides and phospholipids - Impact of lipoplex stability on transfection efficiency. <i>Journal of Controlled Release</i> , 2015, 220, 295-307.	9.9	18
31	Water Dynamics in Bolaamphiphile Hydrogels Investigated by ¹ H NMR Relaxometry and Diffusometry. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14-22.	2.6	17
32	Development and validation of LC/ESI-MS method for the detection and quantification of exogenous ceramide NP in stratum corneum and other layers of the skin. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 60, 7-13.	2.8	17
33	Composites of malonic acid diamides and phospholipids - Structural parameters for optimal transfection efficiency in A549 cells. <i>European Journal of Lipid Science and Technology</i> , 2014, 116, 1184-1194.	1.5	17
34	Phenylene bolaamphiphiles: Influence of the substitution pattern on the aggregation behavior and the miscibility with classical phospholipids. <i>European Journal of Lipid Science and Technology</i> , 2014, 116, 1205-1216.	1.5	16
35	Bolalipid fiber aggregation can be modulated by the introduction of sulfur atoms into the spacer chains. <i>Journal of Colloid and Interface Science</i> , 2013, 393, 143-150.	9.4	15
36	Amino-functionalized single-chain bolalipids: Synthesis and aggregation behavior of new basic building blocks. <i>Biophysical Chemistry</i> , 2010, 150, 136-143.	2.8	13

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37	Tuning the aggregation behaviour of single-chain bolaamphiphiles in aqueous suspension by changes in headgroup asymmetry. <i>Soft Matter</i> , 2013, 9, 9562.	2.7	13
38	Potential application of oat-derived ceramides in improving skin barrier function: Part 1. Isolation and structural characterization. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1065-1066, 87-95.	2.3	13
39	Synthesis of novel symmetrical, single-chain, diacetylene-modified bolaamphiphiles with different alkyl chain lengths. <i>Monatshefte für Chemie</i> , 2010, 141, 339-349.	1.8	12
40	Synthesis and DNA transfection properties of new head group modified malonic acid diamides. <i>International Journal of Pharmaceutics</i> , 2011, 409, 46-56.	5.2	12
41	The Directional Observation of Highly Dynamic Membrane Tubule Formation Induced by Engulfed Liposomes. <i>Scientific Reports</i> , 2015, 5, 16559.	3.3	12
42	Highly Asymmetrical Glycerol Diether Bolalipids: Synthesis and Temperature-Dependent Aggregation Behavior. <i>Langmuir</i> , 2015, 31, 10683-10692.	3.5	12
43	Determination of the influence of C24 D/(2R)- and L/(2S)-isomers of the CER[AP] on the lamellar structure of stratum corneum model systems using neutron diffraction. <i>Chemistry and Physics of Lipids</i> , 2017, 209, 29-36.	3.2	12
44	DNA Delivery Systems Based on Peptide-Mimicking Cationic Lipids – The Effect of the Co-Lipid on the Structure and DNA Binding Capacity. <i>Langmuir</i> , 2019, 35, 4613-4625.	3.5	12
45	Synthesis of symmetrical, single-chain, phenylene/biphenylene-modified bolaamphiphiles. <i>Monatshefte für Chemie</i> , 2012, 143, 1533-1543.	1.8	11
46	Bis-Sonogashira cross-coupling: an expeditious approach towards long-chain, phenylene-modified 1,3-diols. <i>RSC Advances</i> , 2012, 2, 4052.	3.6	11
47	Phase behavior of selected artificial lipids. <i>Current Opinion in Colloid and Interface Science</i> , 2014, 19, 17-24.	7.4	11
48	Lamellar versus Micellar Structures – Aggregation Behavior of a Three-Chain Cationic Lipid Designed for Nonviral Polynucleotide Transfer. <i>ChemPhysChem</i> , 2015, 16, 2115-2126.	2.1	11
49	Lysine-based amino-functionalized lipids for gene transfection: the protonation state in monolayers at the air-liquid interface. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20271-20280.	2.8	11
50	Impact of Headgroup Asymmetry and Protonation State on the Aggregation Behavior of a New Type of Glycerol Diether Bolalipid. <i>Langmuir</i> , 2018, 34, 4360-4373.	3.5	10
51	New Micellar Transfection Agents. <i>Langmuir</i> , 2014, 30, 4905-4915.	3.5	9
52	Influence of a Novel Dimeric Ceramide Molecule on the Nanostructure and Thermotropic Phase Behavior of a Stratum Corneum Model Mixture. <i>Langmuir</i> , 2017, 33, 9211-9221.	3.5	9
53	Lysine-based amino-functionalized lipids for gene transfection: the influence of the chain composition on 2D properties. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6936-6944.	2.8	9
54	Synthesis of ceramides NS and NP with perdeuterated and specifically ^{13}C deuterated N-acyl residues. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2016, 59, 531-542.	1.0	8

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55	Interactions of Cationic Lipids with DNA: A Structural Approach. <i>Langmuir</i> , 2018, 34, 14858-14868.	3.5	8
56	Synthesis and study of the complex formation of a cationic alkyl-chain bola amino alcohol with DNA: in vitro transfection efficiency. <i>Colloid and Polymer Science</i> , 2015, 293, 3167-3175.	2.1	7
57	Synthesis of specific deuterated derivatives of the long chained stratum corneum lipids [EOS] and [EOP] and characterization using neutron scattering. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2017, 60, 316-330.	1.0	6
58	An Asymmetrical Glycerol Diether Bolalipid with Protonable Phosphodimethylethanolamine Headgroup: The Impact of pH on Aggregation Behavior and Miscibility with DPPC. <i>Polymers</i> , 2017, 9, 573.	4.5	6
59	Tris(2-aminoethyl)amine-based $\hat{\pm}$ -branched fatty acid amides $\hat{\pm}$ Synthesis of lipids and comparative study of transfection efficiency of their lipid formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 96, 349-362.	4.3	5
60	Development and Validation of Analytical Methods for the Detection and Quantification of a Novel Dimeric Ceramide in Stratum Corneum and Other Layers of the Skin. <i>Chromatographia</i> , 2016, 79, 1615-1624.	1.3	5
61	Synthesis of specifically deuterated ceramide [AP]-C18 and its biophysical characterization using neutron diffraction. <i>Chemistry and Physics of Lipids</i> , 2017, 204, 15-24.	3.2	5
62	The Motional Dynamics in Bolaamphiphilic Nanofibers and Micellar Aggregates: An ESR Spin Probe Study. <i>Journal of Physical Chemistry B</i> , 2009, 113, 574-582.	2.6	4
63	Synthese der racemischen CorynomycolsÄure. <i>Zeitschrift für Chemie</i> , 1988, 28, 299-300.	0.0	4
64	The Impact of Alkylä€Chain Purity on Lipidä€Based Nucleic Acid Delivery Systems ä€ Is the Utilization of Lipid Components with Technical Grade Justified?. <i>ChemPhysChem</i> , 2019, 20, 2110-2121.	2.1	4
65	Simple and high yield synthesis of ($\hat{\pm}$)10,10ä€ ² -dimethyl-dotriacontan-1,1ä€ ² -diol as a building block for branched bola compounds. Preparation of ($\hat{\pm}$)10,10ä€ ² -dimethyl-dotriacontan-1,1ä€ ² -diyl-bis[2-(trimethylammonio)ethyl phosphate] and the corresponding unbranched equivalent. <i>Chemistry and Physics of Lipids</i> , 1997, 90, 25-30.	3.2	3
66	Functionalization of Bolalipid Nanofibers by Silicification and Subsequent One-Dimensional Fixation of Gold Nanoparticles. <i>Langmuir</i> , 2012, 28, 11615-11624.	3.5	2
67	Synthesis of Novel Asymmetrical Single-Chain Phosphoglycol-Based Bolaamphiphiles. <i>Synthetic Communications</i> , 2014, 44, 564-573.	2.1	2
68	Two- and Three-Dimensional Physicalä€Chemical Characterization of CER[AP]: A Study of Stereochemistry and Chain Symmetry. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9960-9969.	2.6	2
69	Lamellar versus Micellar Structuresä€Aggregation Behavior of a Threeä€Chain Cationic Lipid Designed for Nonviral Polynucleotide Transfer. <i>ChemPhysChem</i> , 2015, 16, 2029-2029.	2.1	0