

Annette Meister

List of Publications by Year in descending order

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86
papers

1,860
citations

331670

21
h-index

315739

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92
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docs citations

92
times ranked

1979
citing authors

#	ARTICLE	IF	CITATIONS
1	Solubilization of Membrane Proteins into Functional Lipid Bilayer Nanodiscs Using a Diisobutylene/Maleic Acid Copolymer. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1919-1924.	13.8	230
2	The structure of the COPII transport-vesicle coat assembled on membranes. <i>ELife</i> , 2013, 2, e00951.	6.0	112
3	Self-assembly of bipolar amphiphiles. <i>Current Opinion in Colloid and Interface Science</i> , 2007, 12, 138-147.	7.4	102
4	Multibudded tubules formed by COPII on artificial liposomes. <i>Scientific Reports</i> , 2011, 1, 17.	3.3	86
5	A Fluorinated Detergent for Membrane Protein Applications. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5069-5073.	13.8	65
6	Structure-Property Relationship in Stimulus-Responsive Bolaamphiphile Hydrogels. <i>Langmuir</i> , 2007, 23, 7715-7723.	3.5	61
7	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
8	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
9	Insertion of Lipidated Ras Proteins into Lipid Monolayers Studied by Infrared Reflection Absorption Spectroscopy (IRRAS). <i>Biophysical Journal</i> , 2006, 91, 1388-1401.	0.5	49
10	Temperature-Dependent Self-Assembly and Mixing Behavior of Symmetrical Single-Chain Bolaamphiphiles. <i>Langmuir</i> , 2008, 24, 6238-6246.	3.5	48
11	Conformational and thermal behavior of a pH-sensitive bolaform hydrogelator. <i>Soft Matter</i> , 2006, 2, 77-86.	2.7	47
12	Influence of Mg ²⁺ and Ca ²⁺ on nanodisc formation by diisobutylene/maleic acid (DIBMA) copolymer. <i>Chemistry and Physics of Lipids</i> , 2019, 221, 30-38.	3.2	46
13	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
14	Supramolecular organization of the human N-BAR domain in shaping the sarcolemma membrane. <i>Journal of Structural Biology</i> , 2016, 194, 375-382.	2.8	32
15	General Synthesis and Aggregation Behaviour of New Single-Chain Bolaamphiphilic Phospholipids: Variations in Chain and Headgroup Structures. <i>Chemistry - A European Journal</i> , 2008, 14, 6796-6804.	3.3	31
16	Formation of square lamellae by self-assembly of long-chain bolaamphiphilic phospholipids in water. <i>Soft Matter</i> , 2010, 6, 1317.	2.7	31
17	Mixing behaviour of a symmetrical single-chain bolaamphiphile with phospholipids. <i>Soft Matter</i> , 2007, 3, 1025-1031.	2.7	26
18	Synthesis, Characterization, and Nanoencapsulation of Tetrathiatriarylmethyl and Tetrachlorotriarylmethyl (Trityl) Radical Derivatives: A Study To Advance Their Applicability as in Vivo EPR Oxygen Sensors. <i>Journal of Organic Chemistry</i> , 2015, 80, 6754-6766.	3.2	25

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19	The Headgroup (A)Symmetry Strongly Determines the Aggregation Behavior of Single-Chain Phenylene-Modified Bolalipids and Their Miscibility with Classical Phospholipids. <i>Langmuir</i> , 2014, 30, 9273-9284.	3.5	24
20	(Cryo)Transmission Electron Microscopy of Phospholipid Model Membranes Interacting with Amphiphilic and Polyphilic Molecules. <i>Polymers</i> , 2017, 9, 521.	4.5	23
21	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
22	Synthesis and characterization of graft copolymers able to form polymersomes and worm-like aggregates. <i>Soft Matter</i> , 2013, 9, 10364.	2.7	22
23	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
24	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
25	Hierarchical Micelles via Polyphilic Interactions: Hydrogen-Bonded Supramolecular Dendrons and Double Immiscible Polymers. <i>Nano Letters</i> , 2016, 16, 1491-1496.	9.1	20
26	Temperature-Dependent Aggregation Behavior of Symmetric Long-Chain Bolaamphiphiles at the Air–Water Interface. <i>Langmuir</i> , 2006, 22, 2668-2675.	3.5	19
27	Evidence for a Reverse U-Shaped Conformation of Single-Chain Bolaamphiphiles at the Air–Water Interface. <i>Langmuir</i> , 2007, 23, 6063-6069.	3.5	19
28	Self-assembly of different single-chain bolaphospholipids and their miscibility with phospholipids or classical amphiphiles. <i>Advances in Colloid and Interface Science</i> , 2014, 208, 264-278.	14.7	19
29	Phosphatidylserine (PS) and phosphatidylglycerol (PG) nanodispersions as potential anti-inflammatory therapeutics: Comparison of in vitro activity and impact of pegylation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 23, 102096.	3.3	19
30	A bioinspired glycopolymer for capturing membrane proteins in native-like lipid-bilayer nanodiscs. <i>Nanoscale</i> , 2022, 14, 1855-1867.	5.6	19
31	A T-Shaped Amphiphilic Molecule Forms Closed Vesicles in Water and Bicelles in Mixtures with a Membrane Lipid. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4871-4878.	2.6	18
32	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
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	Enzymatic Synthesis and Characterization of Hydrophilic Sugar Based Polyesters and Their Modification with Stearic Acid. <i>Polymers</i> , 2016, 8, 80.	4.5	17
35	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
36	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

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37	Structures of malonic acid diamide/phospholipid composites and their lipoplexes. <i>Soft Matter</i> , 2016, 12, 5854-5866.	2.7	15
38	Fluorescent spherical mesoporous silica nanoparticles loaded with emodin: Synthesis, cellular uptake and anticancer activity. <i>Materials Science and Engineering C</i> , 2021, 119, 111619.	7.3	15
39	Single-Chain Bolaamphiphiles. <i>Behavior Research Methods</i> , 2012, , 93-128.	4.0	14
40	Investigation of Binary Lipid Mixtures of a Three-Chain Cationic Lipid with Phospholipids Suitable for Gene Delivery. <i>Bioconjugate Chemistry</i> , 2015, 26, 2461-2473.	3.6	14
41	Aggregation behaviour of a single-chain, phenylene-modified bolalipid and its miscibility with classical phospholipids. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 995-1007.	2.2	14
42	Bolalipid-Doped Liposomes: Can Bolalipids Increase the Integrity of Liposomes Exposed to Gastrointestinal Fluids?. <i>Pharmaceutics</i> , 2019, 11, 646.	4.5	14
43	Phosphatidylserine (PS) and phosphatidylglycerol (PG) enriched mixed micelles (MM): A new nano-drug delivery system with anti-inflammatory potential?. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 152, 105451.	4.0	14
44	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
45	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
46	Insights from reconstitution reactions of COPII vesicle formation using pure components and low mechanical perturbation. <i>Biological Chemistry</i> , 2014, 395, 801-812.	2.5	13
47	Solubilisierung von Membranproteinen in funktionelle Lipiddoppelschichtâ€Nanodiscs mithilfe eines Diisobutylen/ MaleinsÃureâ€Copolymers. <i>Angewandte Chemie</i> , 2017, 129, 1946-1951.	2.0	13
48	Azide-Modified Membrane Lipids: Synthesis, Properties, and Reactivity. <i>Langmuir</i> , 2017, 33, 4960-4973.	3.5	13
49	Highly Asymmetrical Glycerol Diether Bolaamphiphiles: Synthesis and Temperature-Dependent Aggregation Behavior. <i>Langmuir</i> , 2015, 31, 10683-10692.	3.5	12
50	Synthesis of poly(glycerol adipate)-g-oleate and its ternary phase diagram with glycerol monooleate and water. <i>European Polymer Journal</i> , 2017, 91, 162-175.	5.4	12
51	Synthesis of symmetrical, single-chain, phenylene/biphenylene-modified bolaamphiphiles. <i>Monatshefte für Chemie</i> , 2012, 143, 1533-1543.	1.8	11
52	Lamellar versus Micellar Structuresâ€”Aggregation Behavior of a Threeâ€Chain Cationic Lipid Designed for Nonviral Polynucleotide Transfer. <i>ChemPhysChem</i> , 2015, 16, 2115-2126.	2.1	11
53	Temperature-Dependent In-Plane Structure Formation of an X-Shaped Bolaamphiphile within Lipid Bilayers. <i>Langmuir</i> , 2015, 31, 2839-2850.	3.5	11
54	Impact of Headgroup Asymmetry and Protonation State on the Aggregation Behavior of a New Type of Glycerol Diether Bolaamphiphile. <i>Langmuir</i> , 2018, 34, 4360-4373.	3.5	10

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55	Solubilization of artificial mitochondrial membranes by amphiphilic copolymers of different charge. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183725.	2.6	10
56	Synthesis and structure formation of block copolymers of poly(ethylene glycol) with homopolymers and copolymers of L-glutamic acid β -benzyl ester and L-leucine in water. <i>Colloid and Polymer Science</i> , 2015, 293, 2147-2155.	2.1	9
57	Tunable dynamic hydrophobic attachment of guest molecules in amphiphilic core-shell polymers. <i>Polymer Chemistry</i> , 2016, 7, 5783-5798.	3.9	9
58	Binding of the GTPase Sar1 to a Lipid Membrane Monolayer: Insertion and Orientation Studied by Infrared Reflection-Absorption Spectroscopy. <i>Polymers</i> , 2017, 9, 612.	4.5	9
59	Mixing behaviour of bilayer-forming phosphatidylcholines with single-chain alkyl-branched bolalipids: effect of lateral chain length. <i>Biophysical Chemistry</i> , 2019, 244, 1-10.	2.8	9
60	2.7 Å... cryo-EM structure of vitrified <i>M. musculus</i> H-chain apoferritin from a compact 200 keV cryo-microscope. <i>PLoS ONE</i> , 2020, 15, e0232540.	2.5	9
61	Towards the Development of Long Circulating Phosphatidylserine (PS)- and Phosphatidylglycerol (PG)-Enriched Anti-Inflammatory Liposomes: Is PEGylation Effective?. <i>Pharmaceutics</i> , 2021, 13, 282.	4.5	8
62	Morphological changes of bacterial model membrane vesicles. <i>European Journal of Lipid Science and Technology</i> , 2014, 116, 1228-1233.	1.5	7
63	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
64	Hybrid Double-Chain Maltose-Based Detergents: Synthesis and Colloidal and Biochemical Evaluation. <i>Journal of Organic Chemistry</i> , 2019, 84, 10606-10614.	3.2	6
65	Tris(2-aminoethyl)amine-based β -branched fatty acid amides - 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
66	Supramolecular semifluorinated dendrons glued by weak hydrogen-bonds. <i>Chemical Communications</i> , 2017, 53, 8699-8702.	4.1	5
67	Mixing behaviour of asymmetrical glycerol diether bolalipids with saturated and unsaturated phosphatidylcholines. <i>Biophysical Chemistry</i> , 2018, 238, 39-48.	2.8	5
68	Azide-Modified Membrane Lipids: Miscibility with Saturated Phosphatidylcholines. <i>Langmuir</i> , 2019, 35, 12439-12450.	3.5	5
69	A Diazirine-Modified Membrane Lipid to Study Peptide/Lipid Interactions - Chances and Challenges. <i>Chemistry - A European Journal</i> , 2021, 27, 14586-14593.	3.3	5
70	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
71	Nanofiber Formation and Polymerization of Bolalipids with Diacetylene-Modified Single Alkyl Chains. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1566-1577.	2.6	4
72	Divalent Amino-Acid-Based Amphiphilic Antioxidants: Synthesis, Self-Assembling Properties, and Biological Evaluation. <i>Bioconjugate Chemistry</i> , 2016, 27, 772-781.	3.6	3

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73	Lipid-Dependent Interaction of Human N-BAR Domain Proteins with Sarcolemma Mono- and Bilayers. <i>Langmuir</i> , 2020, 36, 8695-8704.	3.5	3
74	Synthesis and aggregation behaviour of single-chain, 1,32-alkyl-branched bis(phosphocholines) – part 2: lateral chain length triggers self-assembling from sheets to fibres to vesicles. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 3585-3598.	2.8	3
75	Nanoscale Model System for the Human Myelin Sheath. <i>Biomacromolecules</i> , 2021, 22, 3901-3912.	5.4	3
76	Selection and Incorporation of siRNA Carrying Non-Viral Vector for Sustained Delivery from Gellan Gum Hydrogels. <i>Pharmaceutics</i> , 2021, 13, 1546.	4.5	3
77	Functionalization of Bolalipid Nanofibers by Silicification and Subsequent One-Dimensional Fixation of Gold Nanoparticles. <i>Langmuir</i> , 2012, 28, 11615-11624.	3.5	2
78	Tuning the Thickness of a Biomembrane by Stapling Diamidophospholipids with Bolalipids. <i>Langmuir</i> , 2020, 36, 8610-8616.	3.5	2
79	Measuring protein insertion areas in lipid monolayers by fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2021, 120, 1333-1342.	0.5	2
80	Thin-Layer Chromatography and Coomassie Staining of Phospholipids for Fast and Simple Lipidomics Sample Preparation. <i>Analysis & Sensing</i> , 2021, 1, 171-179.	2.0	2
81	Triphasic pentablock copolymers with perfluoroalkyl segment in central position. <i>Journal of Polymer Science</i> , 2020, 58, 3322-3335.	3.8	2
82	Filling the Gap with Long <i>n</i> -Alkanes: Incorporation of C20 and C30 into Phospholipid Membranes. <i>Langmuir</i> , 2022, 38, 8595-8606.	3.5	2
83	Azide- and diazirine-modified membrane lipids: Physicochemistry and applicability to study peptide/lipid interactions via cross-linking/mass spectrometry. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022, , 184004.	2.6	2
84	Controlling the Miscibility of X-Shaped Bolapolyphiles in Lipid Membranes by Varying the Chemical Structure and Size of the Polyphile Polar Headgroup. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10861-10871.	2.6	1
85	Lamellar versus Micellar Structures – Aggregation Behavior of a Three-Chain Cationic Lipid Designed for Nonviral Polynucleotide Transfer. <i>ChemPhysChem</i> , 2015, 16, 2029-2029.	2.1	0
86	Thin-Layer Chromatography and Coomassie Staining of Phospholipids for Fast and Simple Lipidomics Sample Preparation. <i>Analysis & Sensing</i> , 2021, 1, 134.	2.0	0