Heiko Heerklotz

List of Publications by Year
in descending order

73	4,312	87888	106344
papers	citations	38 h-index	65 g-index

96	96	96	4555
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Complex Micellization Behavior of the Polysorbates Tween 20 and Tween 80. Molecular Pharmaceutics, 2021, 18, 3147-3157.	4.6	31
2	The Optimal Lipid Chain Length of a Membrane-Permeabilizing Lipopeptide Results From the Balance of Membrane Partitioning and Local Damage. Frontiers in Microbiology, 2021, 12, 669709.	3.5	11
3	Membrane-water partitioning â€“ Tackling the challenges of poorly soluble drugs using chaotropic co-solvents. Biophysical Chemistry, 2021, 277, 106654.	2.8	5
4	Screening for Optimal Liposome Preparation Conditions by Using Dual Centrifugation and Time-Resolved Fluorescence Measurements. Pharmaceutics, 2021, 13, 2046.	4.5	7
5	Stairway to Asymmetry: Five Steps to Lipid-Asymmetric Proteoliposomes. Biophysical Journal, 2020, 118, 294-302.	0.5	27
6	Determining critical parameters that influence in vitro performance characteristics of a thermosensitive liposome formulation of vinorelbine. Journal of Controlled Release, 2020, 328, 551-561.	9.9	16
7	Lipid Scrambling Induced by Membrane-Active Substances. Biophysical Journal, 2020, 119, 767-779.	0.5	10
8	Calcium affects CHP1 and CHP2 conformation and their interaction with sodium/proton exchanger 1. FASEB Journal, 2020, 34, 3253-3266.	0.5	4
9	Primary and Secondary Binding of Exenatide to Liposomes. Biophysical Journal, 2020, 118, 600-611.	0.5	4
10	Kiss and Run Asymmetric Vesicles to Investigate Coupling. Biophysical Journal, 2019, 117, 1009-1011.	0.5	1
11	Engineering Asymmetric Lipid Vesicles: Accurate and Convenient Control of the Outer Leaflet Lipid Composition. Langmuir, 2018, 34, 1999-2005.	3.5	50
12	Biomembrane Permeabilization: Statistics of Individual Leakage Events Harmonize the Interpretation of Vesicle Leakage. ACS Nano, 2018, 12, 813-819.	14.6	19
13	Calcineurin B homologous protein 3 binds with high affinity to the CHP binding domain of the human sodium/proton exchanger NHE1. Scientific Reports, 2018, 8, 14837.	3.3	5
14	Preparation of Asymmetric Liposomes Using a Phosphatidylserine Decarboxylase. Biophysical Journal, 2018, 115, 1509-1517.	0.5	30
15	Digitonin does not flip across cholesterol-poor membranes. Journal of Colloid and Interface Science, 2017, 504, 283-293.	9.4	16
16	â€œStaying Outâ€•Rather than â€œCracking Inâ€• Asymmetric Membrane Insertion of 12:0 Lysophosphocholine. Langmuir, 2016, 32, 11655-11663.	3.5	15
17	Design and Characterization of a Multifunctional pHâ€Triggered Peptide C8 for Selective Anticancer Activity. Advanced Healthcare Materials, 2015, 4, 2709-2718.	7.6	23
18	Lipid Selectivity of Fungicidal Lipopeptides. Biophysical Journal, 2015, 108, 549a.	0.5	2

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19	Correlating antimicrobial activity and model membrane leakage induced by nylon-3 polymers and detergents. Soft Matter, 2015, 11, 6840-6851.	2.7	48
20	Vesicle Leakage Reflects the Target Selectivity of Antimicrobial Lipopeptides from Bacillus subtilis. Biophysical Journal, 2015, 109, 2079-2089.	0.5	50
21	Folding thermodynamics of the hybridâ€‡1 type intramolecular human telomeric Gâ€quadruplex. Biopolymers, 2014, 101, 216-227.	2.4	19
22	Utilizing zeta potential measurements to study the effective charge, membrane partitioning, and membrane permeation of the lipopeptide surfactin. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2306-2312.	2.6	35
23	Additive and Synergistic Membrane Permeabilization by Antimicrobial (Lipo)Peptides and Detergents. Biophysical Journal, 2014, 106, 2115-2125.	0.5	31
24	How Membrane Partitioning Modulates Receptor Activation: Parallel versus Serial Effects of Hydrophobic Ligands. Biophysical Journal, 2013, 105, 2607-2610.	0.5	13
25	Design of pH-responsive nanoparticles of terpolymer of poly(methacrylic acid), polysorbate 80 and starch for delivery of doxorubicin. Colloids and Surfaces B: Biointerfaces, 2013, 101, 405-413.	5.0	73
26	Efficacy as an Intrinsic Property of the M₂ Muscarinic Receptor in Its Tetrameric State. Biochemistry, 2013, 52, 7405-7427.	2.5	28
27	pH-Dependent doxorubicin release from terpolymer of starch, polymethacrylic acid and polysorbate 80 nanoparticles for overcoming multi-drug resistance in human breast cancer cells. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 82, 587-597.	4.3	88
28	Effect of Hydrophobic Interactions on Volume and Thermal Expansivity as Derived from Micelle Formation. Langmuir, 2012, 28, 14129-14136.	3.5	12
29	Classifying Surfactants with Respect to Their Effect on Lipid Membrane Order. Biophysical Journal, 2012, 102, 498-506.	0.5	138
30	Volume and Expansivity Changes of Micelle Formation Measured by Pressure Perturbation Calorimetry. Langmuir, 2011, 27, 1693-1699.	3.5	11
31	ThermoML: an XML-Based Approach for Storage and Exchange of Experimental and Critically Evaluated Thermophysical and Thermochemical Property Data. 5. Speciation and Complex Equilibria. Journal of Chemical & Engineering Data, 2011, 56, 307-316.	1.9	8
32	Volumetric Characterization of Sodium-Induced G-Quadruplex Formation. Journal of the American Chemical Society, 2011, 133, 4518-4526.	13.7	84
33	Extension of ThermoML: The IUPAC standard for thermodynamic data communications (IUPAC) Tj ETQq1 1 0.784314 rgBT /Overlock	1.9	19
34	All-or-none membrane permeabilization by fengycin-type lipopeptides from Bacillus subtilis QST713. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2000-2008.	2.6	88
35	Effects of buffer ionization in protein transition volumes. Biophysical Chemistry, 2010, 148, 144-147.	2.8	15
36	Effects of glycerol and urea on micellization, membrane partitioning and solubilization by a non-ionic surfactant. Biophysical Chemistry, 2010, 150, 119-128.	2.8	34

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37	ThermoMLâ€"An XML-Based Approach for Storage and Exchange of Experimental and Critically Evaluated Thermophysical and Thermochemical Property Data. 4. Biomaterials. Journal of Chemical & Engineering Data, 2010, 55, 1564-1572.	1.9	11
38	Monitoring detergent-mediated solubilization and reconstitution of lipid membranes by isothermal titration calorimetry. Nature Protocols, 2009, 4, 686-697.	12.0	60
39	Modeling the Micellization Behavior of Mixed and Pure n-Alkyl-Maltosides. Langmuir, 2009, 25, 4393-4401.	3.5	34
40	Helixâ^'Coil Transition of DNA Monitored by Pressure Perturbation Calorimetry. Journal of Physical Chemistry B, 2009, 113, 1738-1742.	2.6	29
41	Characterizing vesicle leakage by fluorescence lifetime measurements. Soft Matter, 2009, 5, 2849.	2.7	82
42	Interactions of surfactants with lipid membranes. Quarterly Reviews of Biophysics, 2008, 41, 205-264.	5.7	255
43	Additive Action of Two or More Solutes on Lipid Membranes. Langmuir, 2008, 24, 8833-8840.	3.5	16
44	Activation of the Diguanylate Cyclase PleD by Phosphorylation-mediated Dimerization. Journal of Biological Chemistry, 2007, 282, 29170-29177.	3.4	167
45	Molecular determinants for the recruitment of the ubiquitinâ€ligase MuRFâ€1 onto Mâ€line titin. FASEB Journal, 2007, 21, 1383-1392.	0.5	91
46	Uptake and release protocol for assessing membrane binding and permeation by way of isothermal titration calorimetry. Nature Protocols, 2007, 2, 695-704.	12.0	57
47	Structure of BeF3â^'-Modified Response Regulator PleD: Implications for Diguanylate Cyclase Activation, Catalysis, and Feedback Inhibition. Structure, 2007, 15, 915-927.	3.3	209
48	Leakage and lysis of lipid membranes induced by the lipopeptide surfactin. European Biophysics Journal, 2007, 36, 305-314.	2.2	168
49	Monitoring Lipid Membrane Translocation of Sodium Dodecyl Sulfate by Isothermal Titration Calorimetry. Journal of the American Chemical Society, 2006, 128, 1279-1286.	13.7	70
50	Thermodynamics of Lipid Membrane Solubilization by Sodium Dodecyl Sulfate. Biophysical Journal, 2006, 90, 4509-4521.	0.5	70
51	Thermodynamic Comparison of the Interactions of Cholesterol with Unsaturated Phospholipid and Sphingomyelins. Biophysical Journal, 2006, 90, 4479-4487.	0.5	73
52	Gradual Change or Phase Transition: Characterizing Fluid Lipid-Cholesterol Membranes on the Basis of Thermal Volume Changes. Biophysical Journal, 2006, 91, 600-607.	0.5	61
53	Nonideal mixing in multicomponent lipid/detergent systems. Journal of Physics Condensed Matter, 2006, 18, S1125-S1138.	1.8	46
54	Detergent-resistant membranes should not be identified with membrane rafts. Trends in Biochemical Sciences, 2005, 30, 430-436.	7.5	446

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55	A Quantitative Model Describing the Selective Solubilization of Membrane Domains. Journal of the American Chemical Society, 2005, 127, 11469-11476.	13.7	39
56	Interactions of Cholesterol with Lipid Membranes and Cyclodextrin Characterized by Calorimetry. Biophysical Journal, 2005, 89, 1109-1119.	0.5	74
57	Membrane Perturbation by the Lipopeptide Surfactin and Detergents as Studied by Deuterium NMR. Journal of Physical Chemistry B, 2004, 108, 4909-4915.	2.6	55
58	Structural, Volumetric, and Thermodynamic Characterization of a Micellar Sphere-to-Rod Transition. Journal of the American Chemical Society, 2004, 126, 16544-16552.	13.7	68
59	The microcalorimetry of lipid membranes. Journal of Physics Condensed Matter, 2004, 16, R441-R467.	1.8	67
60	The Sensitivity of Lipid Domains to Small Perturbations Demonstrated by the Effect of Triton. Journal of Molecular Biology, 2003, 329, 793-799.	4.2	159
61	Application of Pressure Perturbation Calorimetry to Lipid Bilayers. Biophysical Journal, 2002, 82, 1445-1452.	0.5	75
62	Membrane Stress and Permeabilization Induced by Asymmetric Incorporation of Compounds. Biophysical Journal, 2001, 81, 184-195.	0.5	67
63	Detergent-Like Action of the Antibiotic Peptide Surfactin on Lipid Membranes. Biophysical Journal, 2001, 81, 1547-1554.	0.5	182
64	The Enthalpy of Acyl Chain Packing and the Apparent Water-Accessible Apolar Surface Area of Phospholipids. Biophysical Journal, 2001, 80, 271-279.	0.5	90
65	A humidity titration calorimetry technique to study the thermodynamics of hydration. Chemical Physics Letters, 1999, 304, 329-335.	2.6	36
66	Hydration and Lyotropic Melting of Amphiphilic Molecules: A Thermodynamic Study Using Humidity Titration Calorimetry. Journal of Colloid and Interface Science, 1999, 220, 235-249.	9.4	38
67	A â€œReleaseâ€•Protocol for Isothermal Titration Calorimetry. Biophysical Journal, 1999, 76, 2606-2613.	0.5	73
68	Lipid/Detergent Interaction Thermodynamics as a Function of Molecular Shape. Journal of Physical Chemistry B, 1997, 101, 639-645.	2.6	80
69	Surface areas and packing constraints in membranes. A time-resolved fluorescence study. Biophysical Chemistry, 1996, 58, 289-302.	2.8	52
70	Application of isothermal titration calorimetry for detecting lipid membrane solubilization. Chemical Physics Letters, 1995, 235, 517-520.	2.6	50
71	Surface area per molecule in lipid/C12E n membranes as seen by fluorescence resonance energy transfer. Journal of Fluorescence, 1994, 4, 339-343.	2.5	40
72	Determination of the partition coefficients of the nonionic detergent C12E7 between lipid-detergent mixed membranes and water by means of Laurdan fluorescence spectroscopy. Journal of Fluorescence, 1994, 4, 349-352.	2.5	10

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73	Membrane/water partition of oligo(ethylene oxide) dodecyl ethers and its relevance for solubilization. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1196, 114-122.	2.6	42