

Andreas Kerth

List of Publications by Year in descending order

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43
papers

1,391
citations

361045

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docs citations

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times ranked

1849
citing authors

#	ARTICLE	IF	CITATIONS
1	Hsp12 Is an Intrinsically Unstructured Stress Protein that Folds upon Membrane Association and Modulates Membrane Function. <i>Molecular Cell</i> , 2010, 39, 507-520.	4.5	163
2	Adsorption of Amyloid \hat{I}^2 (1-40) Peptide at Phospholipid Monolayers. <i>ChemBioChem</i> , 2005, 6, 1817-1824.	1.3	99
3	The microstructure of the stratum corneum lipid barrier: Mid-infrared spectroscopic studies of hydrated ceramide:palmitic acid:cholesterol model systems. <i>Biophysical Chemistry</i> , 2010, 150, 144-156.	1.5	82
4	Thermodynamics of interaction of octyl glucoside with phosphatidylcholine vesicles: partitioning and solubilization as studied by high sensitivity titration calorimetry. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997, 1326, 178-192.	1.4	73
5	Hybrid lipid/polymer giant unilamellar vesicles: effects of incorporated biocompatible PIB \hat{A} PEO block copolymers on vesicle properties. <i>Soft Matter</i> , 2011, 7, 8100.	1.2	73
6	Binding of cationic pentapeptides with modified side chain lengths to negatively charged lipid membranes: Complex interplay of electrostatic and hydrophobic interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1663-1672.	1.4	67
7	Amphiphilic Block Copolymers of Poly(ethylene oxide) and Poly(perfluorohexylethyl methacrylate) at the Water Surface and Their Penetration into the Lipid Monolayer. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9962-9969.	1.2	63
8	Infrared Reflection Absorption Spectroscopy of Amphipathic Model Peptides at the Air/Water Interface. <i>Biophysical Journal</i> , 2004, 86, 3750-3758.	0.2	62
9	Serum albumin hydrogels in broad pH and temperature ranges: characterization of their self-assembled structures and nanoscopic and macroscopic properties. <i>Biomaterials Science</i> , 2018, 6, 478-492.	2.6	53
10	Insertion of Lipidated Ras Proteins into Lipid Monolayers Studied by Infrared Reflection Absorption Spectroscopy (IRRAS). <i>Biophysical Journal</i> , 2006, 91, 1388-1401.	0.2	49
11	Peptide and protein binding to lipid monolayers studied by FT-IRRA spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2294-2305.	1.4	48
12	Infrared Reflection Absorption Spectroscopy Coupled with Brewster Angle Microscopy for Studying Interactions of Amphiphilic Triblock Copolymers with Phospholipid Monolayers. <i>Langmuir</i> , 2008, 24, 10041-10053.	1.6	47
13	Crystal structure of the Borna disease virus matrix protein (BDV-M) reveals ssRNA binding properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3710-3715.	3.3	46
14	Interaction of the Neurotransmitter, Neuropeptide Y, with Phospholipid Membranes: Infrared Spectroscopic Characterization at the Air/Water Interface. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22152-22159.	1.2	45
15	The efficacy of trivalent cyclic hexapeptides to induce lipid clustering in PG/PE membranes correlates with their antimicrobial activity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 2998-3006.	1.4	33
16	Compatible solutes: Ectoine and hydroxyectoine improve functional nanostructures in artificial lung surfactants. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2830-2840.	1.4	32
17	Interaction of Sodium Dodecyl Sulfate with Dimyristoyl-sn-glycero-3-phosphocholine Monolayers Studied by Infrared Reflection Absorption Spectroscopy. A New Method for the Determination of Surface Partition Coefficients. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8371-8378.	1.2	31
18	The Binding of an Amphipathic Peptide to Lipid Monolayers at the Air/Water Interface Is Modulated by the Lipid Headgroup Structure. <i>Langmuir</i> , 2011, 27, 2811-2818.	1.6	25

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19	Negatively Charged Phospholipids Trigger the Interaction of a Bacterial Tat Substrate Precursor Protein with Lipid Monolayers. <i>Langmuir</i> , 2012, 28, 3534-3541.	1.6	23
20	Interactions of KLA Amphipathic Model Peptides with Lipid Monolayers. <i>ChemBioChem</i> , 2009, 10, 2884-2892.	1.3	21
21	Exploring the pH-Induced Functional Phase Space of Human Serum Albumin by EPR Spectroscopy. <i>Magnetochemistry</i> , 2018, 4, 47.	1.0	21
22	Evidence for a Reverse U-Shaped Conformation of Single-Chain Bolaamphiphiles at the Air/Water Interface. <i>Langmuir</i> , 2007, 23, 6063-6069.	1.6	19
23	Interaction of Myelin Basic Protein with Myelin-like Lipid Monolayers at Air/Water Interface. <i>Langmuir</i> , 2018, 34, 6095-6108.	1.6	19
24	Non-ionic surfactants as innovative skin penetration enhancers: insight in the mechanism of interaction with simple 2D stratum corneum model system. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 157, 105620.	1.9	19
25	Hofmeister Salts and Potential Therapeutic Compounds Accelerate in Vitro Fibril Formation of the N-Terminal Domain of PABPN1 Containing a Disease-Causing Alanine Extension. <i>Biochemistry</i> , 2008, 47, 2181-2189.	1.2	18
26	Albumin displacement at the air/water interface by Tween (Polysorbate) surfactants. <i>European Biophysics Journal</i> , 2020, 49, 533-547.	1.2	18
27	Physicochemical characterization of the thermo-induced self-assembly of thermo-responsive PDMAEMA- <i>b</i> -PDEGMA copolymers. <i>Journal of Polymer Science Part A</i> , 2015, 53, 924-935.	2.5	17
28	Calcium-Induced Membrane Microdomains Trigger Plant Phospholipase D Activity. <i>ChemBioChem</i> , 2008, 9, 2853-2859.	1.3	16
29	Interaction of linear polyamines with negatively charged phospholipids: the effect of polyamine charge distance. <i>Biological Chemistry</i> , 2014, 395, 769-778.	1.2	15
30	Phospholipid crystalline clusters induced by adsorption of novel amphiphilic triblock copolymers to monolayers. <i>Soft Matter</i> , 2009, 5, 669-675.	1.2	14
31	Effect of Cholesterol and Myelin Basic Protein (MBP) Content on Lipid Monolayers Mimicking the Cytoplasmic Membrane of Myelin. <i>Cells</i> , 2020, 9, 529.	1.8	14
32	An Infrared Reflection-Absorption Spectroscopic (IRRAS) Study of the Interaction of Lipid A and Lipopolysaccharide Re with Endotoxin-Binding Proteins. <i>Medicinal Chemistry</i> , 2009, 5, 535-542.	0.7	13
33	Unprecedented ring expansion of [60]fullerene: incorporation of nitrogen at an open 6,6-ring juncture by regiospecific reduction of oxycarbonylaziridino-[2,3,1,2][60]fullerenes. Synthesis of 1a-aza-1(6a)-homo[60]fullerene, C ₆₀ H ₂ NH. <i>Chemical Communications</i> , 1996, , 507-508.	2.2	8
34	Adsorption Kinetics of n-Nonyl-β-D-glucopyranoside at the Air/Water Interface Studied by Infrared Reflection Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6239-6246.	1.2	8
35	Interaction of alkyltrimethylammonium bromides with DMPC-d54 and DMPG-d54 monolayers studied by infrared reflection absorption spectroscopy (IRRAS). <i>Journal of Colloid and Interface Science</i> , 2010, 342, 243-252.	5.0	7
36	The cmc-value of a bolalipid with two phosphocholine headgroups and a C24 alkyl chain: Unusual binding properties of fluorescence probes to bolalipid aggregates. <i>Journal of Colloid and Interface Science</i> , 2017, 501, 294-303.	5.0	7

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37	Interaction of a Tat Substrate and a Tat Signal Peptide with Thylakoid Lipids at the Air-Water Interface. <i>ChemBioChem</i> , 2012, 13, 231-239.	1.3	6
38	The interaction of n-nonyl- β -D-glucopyranoside and sodium dodecyl sulfate with DMPC and DMPC monolayers studied by infrared reflection absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5543-5550.	1.3	5
39	Dynamic self-assembly of ions with variable size and charge in solution. <i>RSC Advances</i> , 2019, 9, 18627-18640.	1.7	5
40	Membrane Interacting Peptides - Towards the Understanding of Biological Membranes. <i>Biophysical Chemistry</i> , 2010, 150, 1.	1.5	2
41	Structure Formation in Class I and Class II Hydrophobins at the Air-Water Interface under Multiple Compression/Expansion Cycles. <i>ChemistryOpen</i> , 2018, 7, 1005-1013.	0.9	2
42	The impact of non-ideality of lipid mixing on peptide induced lipid clustering. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183248.	1.4	2
43	Interaction of Poly(ethylene oxide) and Poly(perfluorohexylethyl methacrylate) Containing Block Copolymers with Biological Systems. <i>ACS Symposium Series</i> , 2005, , 92-105.	0.5	1