Andreas Kerth

List of Publications by Year
in descending order

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43 papers	1,391 citations	361413 20 h-index	330143 37 g-index
45 all docs	45 docs citations	45 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. Molecular Cell, 2010, 39, 507-520.	9.7	163
2	Adsorption of Amyloid Î² (1-40) Peptide at Phospholipid Monolayers. ChemBioChem, 2005, 6, 1817-1824.	2.6	99
3	The microstructure of the stratum corneum lipid barrier: Mid-infrared spectroscopic studies of hydrated ceramide:palmitic acid:cholesterol model systems. Biophysical Chemistry, 2010, 150, 144-156.	2.8	82
4	Thermodynamics of interaction of octyl glucoside with phosphatidylcholine vesicles: partitioning and solubilization as studied by high sensitivity titration calorimetry. Biochimica Et Biophysica Acta - Biomembranes, 1997, 1326, 178-192.	2.6	73
5	Hybrid lipid/polymer giant unilamellar vesicles: effects of incorporated biocompatible PIBâ€“PEO block copolymers on vesicle properties. Soft Matter, 2011, 7, 8100.	2.7	73
6	Binding of cationic pentapeptides with modified side chain lengths to negatively charged lipid membranes: Complex interplay of electrostatic and hydrophobic interactions. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1663-1672.	2.6	67
7	Amphiphilic Block Copolymers of Poly(ethylene oxide) and Poly(perfluorohexylethyl methacrylate) at the Water Surface and Their Penetration into the Lipid Monolayer. Journal of Physical Chemistry B, 2004, 108, 9962-9969.	2.6	63
8	Infrared Reflection Absorption Spectroscopy of Amphipathic Model Peptides at the Air/Water Interface. Biophysical Journal, 2004, 86, 3750-3758.	0.5	62
9	Serum albumin hydrogels in broad pH and temperature ranges: characterization of their self-assembled structures and nanoscopic and macroscopic properties. Biomaterials Science, 2018, 6, 478-492.	5.4	53
10	Insertion of Lipidated Ras Proteins into Lipid Monolayers Studied by Infrared Reflection Absorption Spectroscopy (IRRAS). Biophysical Journal, 2006, 91, 1388-1401.	0.5	49
11	Peptide and protein binding to lipid monolayers studied by FT-IRRA spectroscopy. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2294-2305.	2.6	48
12	Infrared Reflection Absorption Spectroscopy Coupled with Brewster Angle Microscopy for Studying Interactions of Amphiphilic Triblock Copolymers with Phospholipid Monolayers. Langmuir, 2008, 24, 10041-10053.	3.5	47
13	Crystal structure of the Borna disease virus matrix protein (BDV-M) reveals ssRNA binding properties. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3710-3715.	7.1	46
14	Interaction of the Neurotransmitter, Neuropeptide Y, with Phospholipid Membranes:Â Infrared Spectroscopic Characterization at the Air/Water Interfaceâ€. Journal of Physical Chemistry B, 2006, 110, 22152-22159.	2.6	45
15	The efficacy of trivalent cyclic hexapeptides to induce lipid clustering in PG/PE membranes correlates with their antimicrobial activity. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2998-3006.	2.6	33
16	Compatible solutes: Ectoine and hydroxyectoine improve functional nanostructures in artificial lung surfactants. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2830-2840.	2.6	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. Journal of Physical Chemistry B, 2004, 108, 8371-8378.	2.6	31
18	The Binding of an Amphipathic Peptide to Lipid Monolayers at the Air/Water Interface Is Modulated by the Lipid Headgroup Structure. Langmuir, 2011, 27, 2811-2818.	3.5	25

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19	Negatively Charged Phospholipids Trigger the Interaction of a Bacterial Tat Substrate Precursor Protein with Lipid Monolayers. Langmuir, 2012, 28, 3534-3541.	3.5	23
20	Interactions of KLA Amphipathic Model Peptides with Lipid Monolayers. ChemBioChem, 2009, 10, 2884-2892.	2.6	21
21	Exploring the pH-Induced Functional Phase Space of Human Serum Albumin by EPR Spectroscopy. Magnetochemistry, 2018, 4, 47.	2.4	21
22	Evidence for a Reverse U-Shaped Conformation of Single-Chain Bolaamphiphiles at the Airâ^'Water Interface. Langmuir, 2007, 23, 6063-6069.	3.5	19
23	Interaction of Myelin Basic Protein with Myelin-like Lipid Monolayers at Airâ€"Water Interface. Langmuir, 2018, 34, 6095-6108.	3.5	19
24	Non-ionic surfactants as innovative skin penetration enhancers: insight in the mechanism of interaction with simple 2D stratum corneum model system. European Journal of Pharmaceutical Sciences, 2021, 157, 105620.	4.0	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. Biochemistry, 2008, 47, 2181-2189.	2.5	18
26	Albumin displacement at the airâ€"water interface by Tween (Polysorbate) surfactants. European Biophysics Journal, 2020, 49, 533-547.	2.2	18
27	Physicochemical characterization of the thermo-induced self-assembly of thermo-responsive PDMAEMA-b -PDEGMA copolymers. Journal of Polymer Science Part A, 2015, 53, 924-935.	2.3	17
28	Calciumâ€Induced Membrane Microdomains Trigger Plant Phospholipase D Activity. ChemBioChem, 2008, 9, 2853-2859.	2.6	16
29	Interaction of linear polyamines with negatively charged phospholipids: the effect of polyamine charge distance. Biological Chemistry, 2014, 395, 769-778.	2.5	15
30	Phospholipid crystalline clusters induced by adsorption of novel amphiphilic triblock copolymers to monolayers. Soft Matter, 2009, 5, 669-675.	2.7	14
31	Effect of Cholesterol and Myelin Basic Protein (MBP) Content on Lipid Monolayers Mimicking the Cytoplasmic Membrane of Myelin. Cells, 2020, 9, 529.	4.1	14
32	An Infrared Reflection-Absorption Spectroscopic (IRRAS) Study of the Interaction of Lipid A and Lipopolysaccharide Re with Endotoxin-Binding Proteins. Medicinal Chemistry, 2009, 5, 535-542.	1.5	13
33	Unprecedented ring expansion of [60]fullerene: incorporation of nitrogen at an open 6,6-ring juncture by regiospecific reduction of oxycarbonylaziridino-[2â€²,3â€²:1,2][60]fullerenes. Synthesis of 1a-aza-1(6a)-homo[60]fullerene, C60H2NH. Chemical Communications, 1996, , 507-508.	4.1	8
34	Adsorption Kinetics of n-Nonyl-Î²-d-glucopyranoside at the Airâ^'Water Interface Studied by Infrared Reflection Absorption Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 6239-6246.	2.6	8
35	Interaction of alkyltrimethylammonium bromides with DMPC-d54 and DMPG-d54 monolayers studied by infrared reflection absorption spectroscopy (IRRAS). Journal of Colloid and Interface Science, 2010, 342, 243-252.	9.4	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. Journal of Colloid and Interface Science, 2017, 501, 294-303.	9.4	7

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37	Interaction of a Tat Substrate and a Tat Signal Peptide with Thylakoid Lipids at the Airâ€“Water Interface. ChemBioChem, 2012, 13, 231-239.	2.6	6
38	The interaction of n-nonyl-Î²-d-glucopyranoside and sodium dodecyl sulfate with DMPC and DMPG monolayers studied by infrared reflection absorption spectroscopy. Physical Chemistry Chemical Physics, 2004, 6, 5543-5550.	2.8	5
39	Dynamic self-assembly of ions with variable size and charge in solution. RSC Advances, 2019, 9, 18627-18640.	3.6	5
40	Membrane Interacting Peptides - Towards the Understanding of Biological Membranes. Biophysical Chemistry, 2010, 150, 1.	2.8	2
41	Structure Formation in Classâ€…I and Classâ€…II Hydrophobins at the Airâ€“Water Interface under Multiple Compression/Expansion Cycles. ChemistryOpen, 2018, 7, 1005-1013.	1.9	2
42	The impact of non-ideality of lipid mixing on peptide induced lipid clustering. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183248.	2.6	2
43	Interaction of Poly(ethylene oxide) and Poly(perfluorohexylethyl methacrylate) Containing Block Copolymers with Biological Systems. ACS Symposium Series, 2005, , 92-105.	0.5	1