Christine Ebel

List of Publications by Year in descending order

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CHDISTINE FREI

#	Article	IF	CITATIONS
1	Interaction of the Mitotic Inhibitor Monastrol with Human Kinesin Eg5â€. Biochemistry, 2003, 42, 338-349.	1.2	171
2	Hepatitis C Virus Core Protein Is a Dimeric Alpha-Helical Protein Exhibiting Membrane Protein Features. Journal of Virology, 2005, 79, 11353-11365.	1.5	128
3	Two Microtubule-associated Proteins of <i>Arabidopsis</i> MAP65s Promote Antiparallel Microtubule Bundling. Molecular Biology of the Cell, 2008, 19, 4534-4544.	0.9	125
4	NMR Structure and Ion Channel Activity of the p7 Protein from Hepatitis C Virus. Journal of Biological Chemistry, 2010, 285, 31446-31461.	1.6	119
5	Insights into the regulation of the human COP9 signalosome catalytic subunit, CSN5/Jab1. Proceedings of the United States of America, 2013, 110, 1273-1278.	3.3	115
6	Partial specific volume and solvent interactions of amphipol A8-35. Analytical Biochemistry, 2004, 334, 318-334.	1.1	105
7	DC-SIGN Neck Domain Is a pH-sensor Controlling Oligomerization. Journal of Biological Chemistry, 2009, 284, 21229-21240.	1.6	105
8	Mannose hyperbranched dendritic polymers interact with clustered organization of DC-SIGN and inhibit gp120 binding. FEBS Letters, 2006, 580, 2402-2408.	1.3	103
9	Conformation of heparin studied with macromolecular hydrodynamic methods and X-ray scattering. European Biophysics Journal, 2003, 32, 437-449.	1.2	99
10	Well-Defined Nanoparticles Formed by Hydrophobic Assembly of a Short and Polydisperse Random Terpolymer, Amphipol A8-35. Langmuir, 2006, 22, 1281-1290.	1.6	99
11	Bacteriorhodopsin/Amphipol Complexes: Structural and Functional Properties. Biophysical Journal, 2008, 94, 3523-3537.	0.2	97
12	MIB–MIP is a mycoplasma system that captures and cleaves immunoglobulin G. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5406-5411.	3.3	97
13	Phosphorylation-induced dimerization of the FixJ receiver domain. Molecular Microbiology, 1999, 34, 504-511.	1.2	96
14	Probing Protein-Sugar Interactions. Biophysical Journal, 2000, 78, 385-393.	0.2	94
15	Non-Ideality by Sedimentation Velocity of Halophilic Malate Dehydrogenase in Complex Solvents. Biophysical Journal, 2001, 81, 1868-1880.	0.2	90
16	Relative Role of Anions and Cations in the Stabilization of Halophilic Malate Dehydrogenase. Biochemistry, 1999, 38, 9039-9047.	1.2	84
17	On the Domain Structure and the Polymerization State of the Sendai Virus P Protein. Virology, 2000, 266, 99-109.	1.1	81
18	Gel chromatography and analytical ultracentrifugation to determine the extent of detergent binding and aggregation, and Stokes radius of membrane proteins using sarcoplasmic reticulum Ca2+–ATPase as an example. Nature Protocols, 2008, 3, 1782-1795.	5.5	76

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19	Fast Collisional Lipid Transfer Among Polymer-Bounded Nanodiscs. Scientific Reports, 2017, 7, 45875.	1.6	74
20	Oligomeric States of the Detergent-solubilized Human Serum Paraoxonase (PON1). Journal of Biological Chemistry, 2002, 277, 33386-33397.	1.6	71
21	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. PLoS ONE, 2015, 10, e0126420.	1.1	71
22	Small angle neutron scattering for the study of solubilised membrane proteins. European Physical Journal E, 2013, 36, 71.	0.7	70
23	Virulence Factor of Potato Virus Y, Genome-attached Terminal Protein VPg, Is a Highly Disordered Protein. Journal of Biological Chemistry, 2008, 283, 213-221.	1.6	66
24	Small-Angle X-Ray Scattering Reveals the Solution Structure of the Full-Length DNA Gyrase A Subunit. Structure, 2005, 13, 287-296.	1.6	65
25	Structural Studies of Langerin and Birbeck Granule: A Macromolecular Organization Model. Biochemistry, 2009, 48, 2684-2698.	1.2	64
26	Non-Ionic Amphiphilic Homopolymers: Synthesis, Solution Properties, and Biochemical Validation. Langmuir, 2012, 28, 4625-4639.	1.6	64
27	Micellar and Biochemical Properties of (Hemi)Fluorinated Surfactants Are Controlled by the Size of the Polar Head. Biophysical Journal, 2009, 97, 1077-1086.	0.2	63
28	Biophysical study of halophilic malate dehydrogenase in solution: revised subunit structure and solvent interactions of native and recombinant enzyme. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 2659-2666.	1.7	61
29	Purification of Na+,K+-ATPase Expressed in Pichia pastoris Reveals an Essential Role of Phospholipid-Protein Interactions. Journal of Biological Chemistry, 2005, 280, 16610-16618.	1.6	61
30	Anti-activator ExsD Forms a 1:1 Complex with ExsA to Inhibit Transcription of Type III Secretion Operons. Journal of Biological Chemistry, 2009, 284, 15762-15770.	1.6	61
31	PatA and PatB Form a Functional Heterodimeric ABC Multidrug Efflux Transporter Responsible for the Resistance of <i>Streptococcus pneumoniae</i> to Fluoroquinolones. Biochemistry, 2012, 51, 7755-7765.	1.2	59
32	Solvent Interactions of Halophilic Malate Dehydrogenase. Biochemistry, 2002, 41, 13234-13244.	1.2	58
33	Aggregation of VSV M protein is reversible and mediated by nucleation sites: Implications for viral assembly. Virology, 1995, 206, 28-37.	1.1	57
34	Isolation and Characterisation of the Rabies Virus Nº-P Complex Produced in Insect Cells. Virology, 2003, 305, 406-414.	1.1	57
35	The Oligomeric States of Haloarcula marismortui Malate Dehydrogenase are Modulated by Solvent Components as Shown by Crystallographic and Biochemical Studies. Journal of Molecular Biology, 2003, 326, 859-873.	2.0	57
36	The ABC transporter BmrA from Bacillus subtilis is a functional dimer when in a detergent-solubilized state. Biochemical Journal, 2006, 395, 345-353.	1.7	57

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37	Reversible Dissociation and Unfolding of Dimeric Creatine Kinase Isoenzyme MM in Guanidine Hydrochloride and Urea. FEBS Journal, 1995, 234, 160-170.	0.2	54
38	Analytical Ultracentrifugation Sedimentation Velocity for the Characterization of Detergent-Solubilized Membrane Proteins Ca++-ATPase and ExbB. Journal of Biological Physics, 2007, 33, 399-419.	0.7	50
39	Interplay of Protein Disorder in Retinoic Acid Receptor Heterodimer and Its Corepressor Regulates Gene Expression. Structure, 2019, 27, 1270-1285.e6.	1.6	50
40	Density Contrast Sedimentation Velocity for the Determination of Protein Partial-Specific Volumes. PLoS ONE, 2011, 6, e26221.	1.1	49
41	Sedimentation velocity to characterize surfactants and solubilized membrane proteins. Methods, 2011, 54, 56-66.	1.9	47
42	Unique DC-SIGN Clustering Activity of a Small Glycomimetic: A Lesson for Ligand Design. ACS Chemical Biology, 2014, 9, 1377-1385.	1.6	47
43	Insights into the Molecular Relationships between Malate and Lactate Dehydrogenases:Â Structural and Biochemical Properties of Monomeric and Dimeric Intermediates of a Mutant of Tetramericl-[LDH-like] Malate Dehydrogenase from the Halophilic ArchaeonHaloarcula marismortui. Biochemistry, 2000, 39, 1001-1010.	1.2	45
44	Trapping and Stabilization of Integral Membrane Proteins by Hydrophobically Grafted Glucose-Based Telomers. Biomacromolecules, 2009, 10, 3317-3326.	2.6	44
45	Link between Proteinâ^'Solvent and Weak Proteinâ^'Protein Interactions Gives Insight into Halophilic Adaptation. Biochemistry, 2002, 41, 13245-13252.	1.2	42
46	Characterization of a TET-like Aminopeptidase Complex from the Hyperthermophilic ArchaeonPyrococcus horikoshiiâ€. Biochemistry, 2005, 44, 3477-3486.	1.2	42
47	Glucose-Based Amphiphilic Telomers Designed to Keep Membrane Proteins Soluble in Aqueous Solutions: Synthesis and Physicochemical Characterization. Langmuir, 2008, 24, 13581-13590.	1.6	42
48	Assembly and Enzymatic Properties of the Catalytic Domain of Human Complement Protease C1r. Journal of Biological Chemistry, 2001, 276, 36233-36240.	1.6	40
49	Assessing the Conformational Changes of pb5, the Receptor-binding Protein of Phage T5, upon Binding to Its Escherichia coli Receptor FhuA. Journal of Biological Chemistry, 2013, 288, 30763-30772.	1.6	40
50	Lactobionamide Surfactants with Hydrogenated, Perfluorinated or Hemifluorinated Tails:Â Physical-Chemical and Biochemical Characterization. Langmuir, 2006, 22, 8881-8890.	1.6	38
51	Mitochondrial Bovine ADP/ATP Carrier in Detergent Is Predominantly Monomeric but Also Forms Multimeric Species. Biochemistry, 2008, 47, 12319-12331.	1.2	38
52	Evidence for Kinetic Intermediate States during the Refolding of GdnHCl-Denatured MM-Creatine Kinase. Characterization of a Trapped Monomeric Species. Biochemistry, 1998, 37, 17579-17589.	1.2	37
53	Characterization of the Yeast Peroxiredoxin Ahp1 in Its Reduced Active and Overoxidized Inactive Forms Using NMRâ€. Biochemistry, 2003, 42, 14139-14149.	1.2	37
54	The oligomer plasticity of the small heat-shock protein Lo18 from <i>Oenococcus oeni</i> influences its role in both membrane stabilization and protein protection. Biochemical Journal, 2012, 444, 97-104.	1.7	36

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55	Functionality of membrane proteins overexpressed and purified from E. coli is highly dependent upon the strain. Scientific Reports, 2019, 9, 2654.	1.6	36
56	An Archaeal Peptidase Assembles into Two Different Quaternary Structures. Journal of Biological Chemistry, 2006, 281, 36327-36337.	1.6	35
57	Modular Structure of the Full-Length DNA Gyrase B Subunit Revealed by Small-Angle X-Ray Scattering. Structure, 2007, 15, 329-339.	1.6	35
58	Oligomerization of the 17-kDa peptide-binding domain of the molecular chaperone HSC70. FEBS Journal, 1999, 259, 379-384.	0.2	34
59	Synergy between Extracellular Modules of Vascular Endothelial Cadherin Promotes Homotypic Hexameric Interactions. Journal of Biological Chemistry, 2002, 277, 12790-12801.	1.6	34
60	Characterization of the elongasome core PBP2 : MreC complex of <i>Helicobacter pylori</i> . Molecular Microbiology, 2011, 82, 68-86.	1.2	34
61	AUC and Small-Angle Scattering for Membrane Proteins. Methods in Enzymology, 2015, 562, 257-286.	0.4	34
62	New Functional Sulfide Oxidase-Oxygen Reductase Supercomplex in the Membrane of the Hyperthermophilic Bacterium Aquifex aeolicus. Journal of Biological Chemistry, 2010, 285, 41815-41826.	1.6	33
63	The major leucyl aminopeptidase of Trypanosoma cruzi (LAPTc) assembles into a homohexamer and belongs to the M17 family of metallopeptidases. BMC Biochemistry, 2011, 12, 46.	4.4	33
64	Optimized Purification of a Heterodimeric ABC Transporter in a Highly Stable Form Amenable to 2-D Crystallization. PLoS ONE, 2011, 6, e19677.	1.1	32
65	Characterization of a Novel Complex from Halophilic Archaebacteria, Which Displays Chaperone-like Activities in Vitro. Journal of Biological Chemistry, 2001, 276, 29906-29914.	1.6	31
66	Organic solvent extracted EmrE solubilized in dodecyl maltoside is monomeric and binds drug ligand. Biochemical and Biophysical Research Communications, 2005, 327, 437-445.	1.0	31
67	The RNA-binding region of human TRBP interacts with microRNA precursors through two independent domains. Nucleic Acids Research, 2013, 41, 4241-4252.	6.5	30
68	Micellar and biochemical properties of a propyl-ended fluorinated surfactant designed for membrane–protein study. Journal of Colloid and Interface Science, 2015, 445, 127-136.	5.0	30
69	Low Resolution Structure Determination Shows Procollagen C-Proteinase Enhancer to be an Elongated Multidomain Glycoprotein. Journal of Biological Chemistry, 2003, 278, 7199-7205.	1.6	29
70	Biophysical Characterization of the C-propeptide Trimer from Human Procollagen III Reveals a Tri-lobed Structure. Journal of Biological Chemistry, 2001, 276, 48930-48936.	1.6	28
71	Self-assembly of the Vascular Endothelial Cadherin Ectodomain in a Ca2+-dependent Hexameric Structure. Journal of Biological Chemistry, 2001, 276, 3581-3588.	1.6	27
72	The BR domain of PsrP interacts with extracellular DNA to promote bacterial aggregation; structural insights into pneumococcal biofilm formation. Scientific Reports, 2016, 6, 32371.	1.6	27

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73	Analytical Ultracentrifuge for the Characterization of Detergent in Solution. , 0, , 74-82.		26
74	The basic keratin 10-binding domain of the virulence-associated pneumococcal serine-rich protein PsrP adopts a novel MSCRAMM fold. Open Biology, 2014, 4, 130090.	1.5	26
75	An Example of Non-Conservation of Oligomeric Structure in Prokaryotic Aminoacyl-tRNA Synthetases. Biochemical and Structural Properties of Glycyl-tRNA Synthetase from Thermus thermophilus. FEBS Journal, 1996, 241, 814-826.	0.2	25
76	Enhancing Potency and Selectivity of a DCâ€SIGN Glycomimetic Ligand by Fragmentâ€Based Design: Structural Basis. Chemistry - A European Journal, 2019, 25, 14659-14668.	1.7	25
77	The Trypanosoma cruzi Virulence Factor Oligopeptidase B (OPBTc) Assembles into an Active and Stable Dimer. PLoS ONE, 2012, 7, e30431.	1.1	24
78	Functional determinants of the Epstein-Barr virus protease. Journal of Molecular Biology, 2001, 311, 217-228.	2.0	23
79	Assemblies of lauryl maltose neopentyl glycol (LMNG) and LMNG-solubilized membrane proteins. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 939-957.	1.4	23
80	Salivary apyrases of Triatoma infestans are assembled into homo-oligomers. Biochemical Journal, 2006, 396, 509-515.	1.7	22
81	A Central Role for Water in the Control of the Spin State of Cytochrome P-450scc. FEBS Journal, 1997, 250, 276-285.	0.2	21
82	Protein–solvent and weak protein–protein interactions in halophilic malate dehydrogenase. Journal of Crystal Growth, 1999, 196, 395-402.	0.7	21
83	A diglucosylated fluorinated surfactant to handle integral membrane proteins in aqueous solution. Journal of Fluorine Chemistry, 2012, 134, 63-71.	0.9	21
84	Comparison of solubility and interactions of aprotinin (BPTI) solutions in H2O and D2O. Journal of Crystal Growth, 2000, 217, 311-319.	0.7	20
85	Understanding the crystallisation of an acidic protein by dilution in the ternary NaCl–2-methyl-2,4-pentanediol–H2O system. Journal of Crystal Growth, 2001, 232, 102-113.	0.7	20
86	Potassium Acts as a GTPase-Activating Element on Each Nucleotide-Binding Domain of the Essential Bacillus subtilis EngA. PLoS ONE, 2012, 7, e46795.	1.1	20
87	Influence of an anion-binding site in the stabilization of halophilic malate dehydrogenase from Haloarcula marismortui. Biochimie, 2007, 89, 981-987.	1.3	19
88	Organization of Human Interferon γâ~'Heparin Complexes from Solution Properties and Hydrodynamicsâ€. Biochemistry, 2006, 45, 13227-13238.	1.2	18
89	Structure and Interactions of Fish Type III Antifreeze Protein inÂSolution. Biophysical Journal, 2010, 99, 609-618.	0.2	18
90	Sparingly fluorinated maltoside-based surfactants for membrane-protein stabilization. New Journal of Chemistry, 2016, 40, 5364-5378.	1.4	18

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91	Fluorinated diglucose detergents for membrane-protein extraction. Methods, 2018, 147, 84-94.	1.9	18
92	Crowding in extremophiles: linkage between solvation and weak protein–protein interactions, stability and dynamics, provides insight into molecular adaptation. Journal of Molecular Recognition, 2004, 17, 382-389.	1.1	17
93	Sedimentation Velocity Analytical Ultracentrifugation for Intrinsically Disordered Proteins. Methods in Molecular Biology, 2012, 896, 91-105.	0.4	17
94	X-ray structure of full-length human RuvB-Like 2 – mechanistic insights into coupling between ATP binding and mechanical action. Scientific Reports, 2018, 8, 13726.	1.6	17
95	Probing the Conformation of FhaC with Small-Angle Neutron Scattering and Molecular Modeling. Biophysical Journal, 2014, 107, 185-196.	0.2	16
96	The MurG glycosyltransferase provides an oligomeric scaffold for the cytoplasmic steps of peptidoglycan biosynthesis in the human pathogen Bordetella pertussis. Scientific Reports, 2019, 9, 4656.	1.6	15
97	Tail proteins of phage T5: Investigation of the effect of the His6-tag position, from expression to crystallisation. Protein Expression and Purification, 2015, 109, 70-78.	0.6	14
98	Sedimentation Velocity Analytical Ultracentrifugation in Hydrogenated and Deuterated Solvents for the Characterization of Membrane Proteins. Methods in Molecular Biology, 2013, 1033, 219-251.	0.4	14
99	Complex Formation between Mur Enzymes from <i>Streptococcus pneumoniae</i> . Biochemistry, 2019, 58, 3314-3324.	1.2	13
100	TETRALEC, Artificial Tetrameric Lectins: A Tool to Screen Ligand and Pathogen Interactions. International Journal of Molecular Sciences, 2020, 21, 5290.	1.8	13
101	New Amphiphiles to Handle Membrane Proteins: "Ménage à Trois―Between Chemistry, Physical Chemistry, and Biochemistry. , 2014, , 205-251.		13
102	Structural Insights into the Catalytic Cycle of a Bacterial Multidrug ABC Efflux Pump. Journal of Molecular Biology, 2022, 434, 167541.	2.0	13
103	Hydrogenated Diglucose Detergents for Membrane-Protein Extraction and Stabilization. Langmuir, 2019, 35, 4287-4295.	1.6	12
104	The role of polar and dispersive parts of surface tension on the bistability of SmC cells. Ferroelectrics, 1988, 85, 47-56.	0.3	11
105	Active Detergent-solubilized H+,K+-ATPase Is a Monomer*. Journal of Biological Chemistry, 2012, 287, 41963-41978.	1.6	11
106	Hybrid Fluorinated and Hydrogenated Double-Chain Surfactants for Handling Membrane Proteins. Journal of Organic Chemistry, 2016, 81, 681-688.	1.7	11
107	Maltose-Based Fluorinated Surfactants for Membrane-Protein Extraction and Stabilization. Langmuir, 2021, 37, 2111-2122.	1.6	11
108	Self-association of adenine-dependent hairpin ribozymes. European Biophysics Journal, 2008, 37, 173-182.	1.2	10

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109	Role of Phosphorylation in Moesin Interactions with PIP2-Containing Biomimetic Membranes. Biophysical Journal, 2018, 114, 98-112.	0.2	10
110	Oligomeric structure of the repressor of the bacteriophage Mu early operon. FEBS Journal, 1998, 252, 408-415.	0.2	9
111	Thermodynamic relationships between protein-solvent and protein-protein interactions. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1554-1559.	2.5	9
112	Essential Kinesins: Characterization ofCaenorhabditis elegansKLP-15â€. Biochemistry, 2005, 44, 6526-6536.	1.2	9
113	Interdomain Flexibility within NADPH Oxidase Suggested by SANS Using LMNG Stealth Carrier. Biophysical Journal, 2020, 119, 605-618.	0.2	9
114	Oligomeric Status and Nucleotide Binding Properties of the Plastid ATP/ADP Transporter 1: Toward a Molecular Understanding of the Transport Mechanism. PLoS ONE, 2012, 7, e32325.	1.1	9
115	Cold-induced conformational changes of ribonuclease A as investigated by subzero transverse temperature gradient gel electrophoresis. BBA - Proteins and Proteomics, 1994, 1208, 1-7.	2.1	8
116	Solution Behavior of Amphiphilic Glycodendrimers with a Rod‣ike Core. Macromolecular Bioscience, 2016, 16, 896-905.	2.1	8
117	Fine-tuning of intrinsic N-Oct-3 POU domain allostery by regulatory DNA targets. Nucleic Acids Research, 2007, 35, 4420-4432.	6.5	7
118	Solvent Mediated Protein–Protein Interactions. , 2007, , 255-287.		7
119	Small-angle neutron scattering study of halophilic glyceraldehyde 3-phosphate dehydrogenase (hGAPDH). Physica B: Condensed Matter, 1991, 174, 306-308.	1.3	3
120	Molecular Adaptation to High Salt. , 0, , 240-253.		3
121	New ferrolectric materials with high spontaneous polarization: Synthesis, physical properties and electro-optical behaviour of some mixtures. Ferroelectrics, 1988, 85, 441-450.	0.3	2
122	Analytical Ultracentrifugation and Size-Exclusion Chromatography Coupled with Light Scattering for the Characterization of Membrane Proteins in Solution. , 2014, , 267-287.		2
123	Glucose-Based Fluorinated Surfactants as Additives for the Crystallization of Membrane Proteins: Synthesis and Preliminary Physical–Chemical and Biochemical Characterization. ACS Omega, 2021, 6, 24397-24406.	1.6	2
124	Sedimentation Velocity Methods for the Characterization of Protein Heterogeneity and Protein Affinity Interactions. Methods in Molecular Biology, 2021, 2247, 155-171.	0.4	2
125	Assembly of an atypical α-macroglobulin complex from Pseudomonas aeruginosa. Scientific Reports, 2018, 8, 527.	1.6	1

AUC in the High Concentration of Salts/Cosolvent. , 2016, , 355-373.

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127	Examining Membrane Proteins by Neutron Scattering. Methods in Molecular Biology, 2020, 2168, 147-175.	0.4	0