## **Christine Ebel**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Structural Insights into the Catalytic Cycle of a Bacterial Multidrug ABC Efflux Pump. Journal of Molecular Biology, 2022, 434, 167541.	2.0	13
2	Maltose-Based Fluorinated Surfactants for Membrane-Protein Extraction and Stabilization. Langmuir, 2021, 37, 2111-2122.	1.6	11
3	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
4	Sedimentation Velocity Methods for the Characterization of Protein Heterogeneity and Protein Affinity Interactions. Methods in Molecular Biology, 2021, 2247, 155-171.	0.4	2
5	Interdomain Flexibility within NADPH Oxidase Suggested by SANS Using LMNG Stealth Carrier. Biophysical Journal, 2020, 119, 605-618.	0.2	9
6	TETRALEC, Artificial Tetrameric Lectins: A Tool to Screen Ligand and Pathogen Interactions. International Journal of Molecular Sciences, 2020, 21, 5290.	1.8	13
7	Examining Membrane Proteins by Neutron Scattering. Methods in Molecular Biology, 2020, 2168, 147-175.	0.4	0
8	Interplay of Protein Disorder in Retinoic Acid Receptor Heterodimer and Its Corepressor Regulates Gene Expression. Structure, 2019, 27, 1270-1285.e6.	1.6	50
9	Complex Formation between Mur Enzymes from <i>Streptococcus pneumoniae</i> . Biochemistry, 2019, 58, 3314-3324.	1.2	13
10	Enhancing Potency and Selectivity of a DCâ€SICN Glycomimetic Ligand by Fragmentâ€Based Design: Structural Basis. Chemistry - A European Journal, 2019, 25, 14659-14668.	1.7	25
11	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
12	Functionality of membrane proteins overexpressed and purified from E. coli is highly dependent upon the strain. Scientific Reports, 2019, 9, 2654.	1.6	36
13	Assemblies of lauryl maltose neopentyl glycol (LMNG) and LMNG-solubilized membrane proteins. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 939-957.	1.4	23
14	Hydrogenated Diglucose Detergents for Membrane-Protein Extraction and Stabilization. Langmuir, 2019, 35, 4287-4295.	1.6	12
15	Assembly of an atypical α-macroglobulin complex from Pseudomonas aeruginosa. Scientific Reports, 2018, 8, 527.	1.6	1
16	Role of Phosphorylation in Moesin Interactions with PIP2-Containing Biomimetic Membranes. Biophysical Journal, 2018, 114, 98-112.	0.2	10
17	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
18	Fluorinated diglucose detergents for membrane-protein extraction. Methods, 2018, 147, 84-94.	1.9	18

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19	Fast Collisional Lipid Transfer Among Polymer-Bounded Nanodiscs. Scientific Reports, 2017, 7, 45875.	1.6	74
20	Solution Behavior of Amphiphilic Glycodendrimers with a Rod‣ike Core. Macromolecular Bioscience, 2016, 16, 896-905.	2.1	8
21	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
22	Sparingly fluorinated maltoside-based surfactants for membrane-protein stabilization. New Journal of Chemistry, 2016, 40, 5364-5378.	1.4	18
23	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
24	Hybrid Fluorinated and Hydrogenated Double-Chain Surfactants for Handling Membrane Proteins. Journal of Organic Chemistry, 2016, 81, 681-688.	1.7	11
25	AUC in the High Concentration of Salts/Cosolvent. , 2016, , 355-373.		0
26	AUC and Small-Angle Scattering for Membrane Proteins. Methods in Enzymology, 2015, 562, 257-286.	0.4	34
27	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
28	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
29	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. PLoS ONE, 2015, 10, e0126420.	1.1	71
30	Unique DC-SIGN Clustering Activity of a Small Glycomimetic: A Lesson for Ligand Design. ACS Chemical Biology, 2014, 9, 1377-1385.	1.6	47
31	Probing the Conformation of FhaC with Small-Angle Neutron Scattering and Molecular Modeling. Biophysical Journal, 2014, 107, 185-196.	0.2	16
32	Analytical Ultracentrifugation and Size-Exclusion Chromatography Coupled with Light Scattering for the Characterization of Membrane Proteins in Solution. , 2014, , 267-287.		2
33	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
34	New Amphiphiles to Handle Membrane Proteins: "Ménage à Trois―Between Chemistry, Physical Chemistry, and Biochemistry. , 2014, , 205-251.		13
35	Small angle neutron scattering for the study of solubilised membrane proteins. European Physical Journal E, 2013, 36, 71.	0.7	70
36	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

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37	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
38	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
39	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
40	Active Detergent-solubilized H+,K+-ATPase Is a Monomer*. Journal of Biological Chemistry, 2012, 287, 41963-41978.	1.6	11
41	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
42	Sedimentation Velocity Analytical Ultracentrifugation for Intrinsically Disordered Proteins. Methods in Molecular Biology, 2012, 896, 91-105.	0.4	17
43	Non-Ionic Amphiphilic Homopolymers: Synthesis, Solution Properties, and Biochemical Validation. Langmuir, 2012, 28, 4625-4639.	1.6	64
44	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
45	The Trypanosoma cruzi Virulence Factor Oligopeptidase B (OPBTc) Assembles into an Active and Stable Dimer. PLoS ONE, 2012, 7, e30431.	1.1	24
46	A diglucosylated fluorinated surfactant to handle integral membrane proteins in aqueous solution. Journal of Fluorine Chemistry, 2012, 134, 63-71.	0.9	21
47	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
48	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
49	Sedimentation velocity to characterize surfactants and solubilized membrane proteins. Methods, 2011, 54, 56-66.	1.9	47
50	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
51	Characterization of the elongasome core PBP2 : MreC complex of <i>Helicobacter pylori</i> . Molecular Microbiology, 2011, 82, 68-86.	1.2	34
52	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
53	Density Contrast Sedimentation Velocity for the Determination of Protein Partial-Specific Volumes. PLoS ONE, 2011, 6, e26221.	1.1	49
54	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

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55	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
56	Structure and Interactions of Fish Type III Antifreeze Protein inÂSolution. Biophysical Journal, 2010, 99, 609-618.	0.2	18
57	DC-SIGN Neck Domain Is a pH-sensor Controlling Oligomerization. Journal of Biological Chemistry, 2009, 284, 21229-21240.	1.6	105
58	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
59	Trapping and Stabilization of Integral Membrane Proteins by Hydrophobically Grafted Glucose-Based Telomers. Biomacromolecules, 2009, 10, 3317-3326.	2.6	44
60	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
61	Structural Studies of Langerin and Birbeck Granule: A Macromolecular Organization Model. Biochemistry, 2009, 48, 2684-2698.	1.2	64
62	Self-association of adenine-dependent hairpin ribozymes. European Biophysics Journal, 2008, 37, 173-182.	1.2	10
63	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
64	Bacteriorhodopsin/Amphipol Complexes: Structural and Functional Properties. Biophysical Journal, 2008, 94, 3523-3537.	0.2	97
65	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
66	Mitochondrial Bovine ADP/ATP Carrier in Detergent Is Predominantly Monomeric but Also Forms Multimeric Species. Biochemistry, 2008, 47, 12319-12331.	1.2	38
67	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
68	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
69	Fine-tuning of intrinsic N-Oct-3 POU domain allostery by regulatory DNA targets. Nucleic Acids Research, 2007, 35, 4420-4432.	6.5	7
70	Influence of an anion-binding site in the stabilization of halophilic malate dehydrogenase from Haloarcula marismortui. Biochimie, 2007, 89, 981-987.	1.3	19
71	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
72	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

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73	Solvent Mediated Protein–Protein Interactions. , 2007, , 255-287.		7
74	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
75	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
76	Lactobionamide Surfactants with Hydrogenated, Perfluorinated or Hemifluorinated Tails:Â Physical-Chemical and Biochemical Characterization. Langmuir, 2006, 22, 8881-8890.	1.6	38
77	Organization of Human Interferon γâ `Heparin Complexes from Solution Properties and Hydrodynamicsâ€. Biochemistry, 2006, 45, 13227-13238.	1.2	18
78	Mannose hyperbranched dendritic polymers interact with clustered organization of DC-SIGN and inhibit gp120 binding. FEBS Letters, 2006, 580, 2402-2408.	1.3	103
79	Salivary apyrases of Triatoma infestans are assembled into homo-oligomers. Biochemical Journal, 2006, 396, 509-515.	1.7	22
80	An Archaeal Peptidase Assembles into Two Different Quaternary Structures. Journal of Biological Chemistry, 2006, 281, 36327-36337.	1.6	35
81	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
82	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
83	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
84	Essential Kinesins: Characterization ofCaenorhabditis elegansKLP-15â€. Biochemistry, 2005, 44, 6526-6536.	1.2	9
85	Characterization of a TET-like Aminopeptidase Complex from the Hyperthermophilic ArchaeonPyrococcus horikoshiiâ€. Biochemistry, 2005, 44, 3477-3486.	1.2	42
86	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
87	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
88	Partial specific volume and solvent interactions of amphipol A8-35. Analytical Biochemistry, 2004, 334, 318-334.	1.1	105
89	Isolation and Characterisation of the Rabies Virus N°-P Complex Produced in Insect Cells. Virology, 2003, 305, 406-414.	1.1	57
90	Conformation of heparin studied with macromolecular hydrodynamic methods and X-ray scattering. European Biophysics Journal, 2003, 32, 437-449.	1.2	99

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91	Interaction of the Mitotic Inhibitor Monastrol with Human Kinesin Eg5â€. Biochemistry, 2003, 42, 338-349.	1.2	171
92	Characterization of the Yeast Peroxiredoxin Ahp1 in Its Reduced Active and Overoxidized Inactive Forms Using NMRâ€. Biochemistry, 2003, 42, 14139-14149.	1.2	37
93	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
94	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
95	Oligomeric States of the Detergent-solubilized Human Serum Paraoxonase (PON1). Journal of Biological Chemistry, 2002, 277, 33386-33397.	1.6	71
96	Synergy between Extracellular Modules of Vascular Endothelial Cadherin Promotes Homotypic Hexameric Interactions. Journal of Biological Chemistry, 2002, 277, 12790-12801.	1.6	34
97	Solvent Interactions of Halophilic Malate Dehydrogenase. Biochemistry, 2002, 41, 13234-13244.	1.2	58
98	Link between Proteinâ^'Solvent and Weak Proteinâ^'Protein Interactions Gives Insight into Halophilic Adaptation. Biochemistry, 2002, 41, 13245-13252.	1.2	42
99	Thermodynamic relationships between protein-solvent and protein-protein interactions. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1554-1559.	2.5	9
100	Functional determinants of the Epstein-Barr virus protease. Journal of Molecular Biology, 2001, 311, 217-228.	2.0	23
101	Non-Ideality by Sedimentation Velocity of Halophilic Malate Dehydrogenase in Complex Solvents. Biophysical Journal, 2001, 81, 1868-1880.	0.2	90
102	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
103	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
104	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
105	Assembly and Enzymatic Properties of the Catalytic Domain of Human Complement Protease C1r. Journal of Biological Chemistry, 2001, 276, 36233-36240.	1.6	40
106	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
107	Comparison of solubility and interactions of aprotinin (BPTI) solutions in H2O and D2O. Journal of Crystal Growth, 2000, 217, 311-319.	0.7	20
108	On the Domain Structure and the Polymerization State of the Sendai Virus P Protein. Virology, 2000, 266, 99-109.	1.1	81

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109	Probing Protein-Sugar Interactions. Biophysical Journal, 2000, 78, 385-393.	0.2	94
110	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
111	Phosphorylation-induced dimerization of the FixJ receiver domain. Molecular Microbiology, 1999, 34, 504-511.	1.2	96
112	Oligomerization of the 17-kDa peptide-binding domain of the molecular chaperone HSC70. FEBS Journal, 1999, 259, 379-384.	0.2	34
113	Protein–solvent and weak protein–protein interactions in halophilic malate dehydrogenase. Journal of Crystal Growth, 1999, 196, 395-402.	0.7	21
114	Relative Role of Anions and Cations in the Stabilization of Halophilic Malate Dehydrogenase. Biochemistry, 1999, 38, 9039-9047.	1.2	84
115	Oligomeric structure of the repressor of the bacteriophage Mu early operon. FEBS Journal, 1998, 252, 408-415.	0.2	9
116	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
117	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
118	An Example of Non-Conservation of Oligomeric Structure in Prokaryotic Aminoacyl-tRNA Synthetases. Biochemical and Structural Properties of Clycyl-tRNA Synthetase from Thermus thermophilus. FEBS Journal, 1996, 241, 814-826.	0.2	25
119	Aggregation of VSV M protein is reversible and mediated by nucleation sites: Implications for viral assembly. Virology, 1995, 206, 28-37.	1.1	57
120	Reversible Dissociation and Unfolding of Dimeric Creatine Kinase Isoenzyme MM in Guanidine Hydrochloride and Urea. FEBS Journal, 1995, 234, 160-170.	0.2	54
121	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
122	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
123	Small-angle neutron scattering study of halophilic glyceraldehyde 3-phosphate dehydrogenase (hGAPDH). Physica B: Condensed Matter, 1991, 174, 306-308.	1.3	3
124	The role of polar and dispersive parts of surface tension on the bistability of SmC cells. Ferroelectrics, 1988, 85, 47-56.	0.3	11
125	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

126 Analytical Ultracentrifuge for the Characterization of Detergent in Solution. , 0, , 74-82.

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127	Molecular Adaptation to High Salt. , 0, , 240-253.		3