

Jochen Balbach

List of Publications by Year in descending order

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394421

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docs citations

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times ranked

1329
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#	ARTICLE	IF	CITATIONS
1	SlyD Proteins from Different Species Exhibit High Prolyl Isomerase and Chaperone Activities. <i>Biochemistry</i> , 2006, 45, 20-33.	2.5	97
2	NMR Solution Structure of SlyD from <i>Escherichia coli</i> : Spatial Separation of Prolyl Isomerase and Chaperone Function. <i>Journal of Molecular Biology</i> , 2009, 387, 295-305.	4.2	70
3	Protein folding and stability of human CDK inhibitor p19INK4d. <i>Journal of Molecular Biology</i> , 2002, 315, 447-457.	4.2	57
4	Solution structure of the PsiAA4 oligomerization domain reveals interaction modes for transcription factors in early auxin response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6230-6235.	7.1	52
5	Structure and Dynamics of Helix-0 of the N-BAR Domain in Lipid Micelles and Bilayers. <i>Biophysical Journal</i> , 2008, 95, 4315-4323.	0.5	47
6	A Multicomponent Stapling Approach to Exocyclic Functionalized Helical Peptides: Adding Lipids, Sugars, PEGs, Labels, and Handles to the Lactam Bridge. <i>Bioconjugate Chemistry</i> , 2019, 30, 253-259.	3.6	44
7	Combined NMR-observation of cold denaturation in supercooled water and heat denaturation enables accurate measurement of ΔT_m of protein unfolding. <i>European Biophysics Journal</i> , 2006, 35, 363-366.	2.2	43
8	Structural insights into an equilibrium folding intermediate of an archaeal ankyrin repeat protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3779-3784.	7.1	36
9	Conformational Switch upon Phosphorylation: Human CDK Inhibitor p19 ^{INK4d} between the Native and Partially Folded State. <i>ACS Chemical Biology</i> , 2009, 4, 53-63.	3.4	36
10	Structure of the Kti11/Kti13 Heterodimer and Its Double Role in Modifications of tRNA and Eukaryotic Elongation Factor 2. <i>Structure</i> , 2015, 23, 149-160.	3.3	36
11	How Fluorescent Tags Modify Oligomer Size Distributions of the Alzheimer Peptide. <i>Biophysical Journal</i> , 2019, 116, 227-238.	0.5	36
12	Folding Mechanism of an Ankyrin Repeat Protein: Scaffold and Active Site Formation of Human CDK Inhibitor p19INK4d. <i>Journal of Molecular Biology</i> , 2007, 373, 219-231.	4.2	35
13	Enhanced Fibril Fragmentation of N-terminally Truncated and Pyroglutamyl-Modified A β Peptides. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5081-5084.	13.8	34
14	Supramolecular organization of the human N-BAR domain in shaping the sarcolemma membrane. <i>Journal of Structural Biology</i> , 2016, 194, 375-382.	2.8	32
15	High yield production of recombinant native and modified peptides exemplified by ligands for G-protein coupled receptors. <i>Protein Expression and Purification</i> , 2008, 58, 114-121.	1.3	31
16	Structural characterization of amyloid fibrils from the human parathyroid hormone. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 249-257.	2.3	31
17	DHPC Strongly Affects the Structure and Oligomerization Propensity of Alzheimer's A β (1-40) Peptide. <i>Journal of Molecular Biology</i> , 2010, 403, 643-659.	4.2	30
18	Phosphorylation-induced unfolding regulates p19 ^{INK4d} during the human cell cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3344-3349.	7.1	28

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19	NMR relaxation unravels interdomain crosstalk of the two domain prolyl isomerase and chaperone SlyD. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 873-881.	2.3	20
20	Real-time protein NMR spectroscopy and investigation of assisted protein folding. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1965-1972.	2.4	20
21	Folding and Stability of Ankyrin Repeats Control Biological Protein Function. <i>Biomolecules</i> , 2021, 11, 840.	4.0	20
22	Local and Coupled Thermodynamic Stability of the Two-Domain and Bifunctional Enzyme SlyD from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2011, 50, 7321-7329.	2.5	17
23	N-Terminal Phosphorylation of Parathyroid Hormone (PTH) Abolishes Its Receptor Activity. <i>ACS Chemical Biology</i> , 2014, 9, 2465-2470.	3.4	16
24	A Detailed Analysis of the Morphology of Fibrils of Selectively Mutated Amyloid β (1-40). <i>ChemPhysChem</i> , 2016, 17, 2744-2753.	2.1	15
25	Modulation of amyloid β peptide aggregation by hydrophilic polymers. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20999-21006.	2.8	15
26	Probing Polymer Chain Conformation and Fibril Formation of Peptide Conjugates. <i>ChemPhysChem</i> , 2019, 20, 236-240.	2.1	15
27	In-Cell NMR: Analysis of Protein-Small Molecule Interactions, Metabolic Processes, and Protein Phosphorylation. <i>International Journal of Molecular Sciences</i> , 2019, 20, 378.	4.1	14
28	Targeting the molecular chaperone SlyD to inhibit bacterial growth with a small molecule. <i>Scientific Reports</i> , 2017, 7, 42141.	3.3	12
29	Equilibrium and Kinetic Unfolding of GB1: Stabilization of the Native State by Pressure. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8846-8852.	2.6	10
30	Binding specificity of the ectodomain of the parathyroid hormone receptor. <i>Biophysical Chemistry</i> , 2011, 154, 66-72.	2.8	9
31	Dynamic control of the prolyl isomerase function of the dual-domain SlyD protein. <i>Biophysical Chemistry</i> , 2013, 171, 16-23.	2.8	9
32	Synthesis and Aggregation of Polymer-Amyloid β Conjugates. <i>Macromolecular Rapid Communications</i> , 2020, 41, 1900378.	3.9	9
33	Inhibition of $A\beta$ (1-40) fibril formation by cyclophilins. <i>Biochemical Journal</i> , 2016, 473, 1355-1368.	3.7	8
34	Hyperbolic Pressure-Temperature Phase Diagram of the Zinc-Finger Protein apoKti11 Detected by NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 792-801.	2.6	8
35	Protein Folding Mechanism of the Dimeric AmphiphysinII/Bin1 N-BAR Domain. <i>PLoS ONE</i> , 2015, 10, e0136922.	2.5	7
36	Monitoring protein unfolding transitions by NMR-spectroscopy. <i>Journal of Biomolecular NMR</i> , 2022, 76, 3-15.	2.8	7

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37	Insights into the secondary structures of lactam <i>N</i> -substituted stapled peptides. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 3838-3842.	2.8	6
38	Macromolecular Crowding Induces a Binding Competent Transient Structure in Intrinsically Disordered Gab1. <i>Journal of Molecular Biology</i> , 2022, 434, 167407.	4.2	6
39	Small Molecule Inhibited Parathyroid Hormone Mediated cAMP Response by N-Terminal Peptide Binding. <i>Scientific Reports</i> , 2016, 6, 22533.	3.3	5
40	Novel sulfated phosphoglycolipids from <i>Natronomonas moolapensis</i> . <i>Chemistry and Physics of Lipids</i> , 2015, 191, 8-15.	3.2	3
41	A Cu ²⁺ complex induces the aggregation of human papillomavirus oncoprotein E6 and stabilizes p53. <i>FEBS Journal</i> , 2018, 285, 3013-3025.	4.7	3
42	Lipid-Dependent Interaction of Human N-BAR Domain Proteins with Sarcolemma Mono- and Bilayers. <i>Langmuir</i> , 2020, 36, 8695-8704.	3.5	3
43	Molecular architecture of A β fibrils grown in cerebrospinal fluid solution and in a cell culture model of A β plaque formation. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2016, 23, 76-85.	3.0	2
44	Inactivation of parathyroid hormone: perspectives of drug discovery to combating hyperparathyroidism. <i>Current Molecular Pharmacology</i> , 2021, 14, .	1.5	2