

Jochen Balbach

List of Publications by Year in descending order

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all docs

44
docs citations

44
times ranked

1329
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring protein unfolding transitions by NMR-spectroscopy. Journal of Biomolecular NMR, 2022, 76, 3-15.	2.8	7
2	Macromolecular Crowding Induces a Binding Competent Transient Structure in Intrinsically Disordered Gab1. Journal of Molecular Biology, 2022, 434, 167407.	4.2	6
3	Folding and Stability of Ankyrin Repeats Control Biological Protein Function. Biomolecules, 2021, 11, 840.	4.0	20
4	Inactivation of parathyroid hormone: perspectives of drug discovery to combating hyperparathyroidism. Current Molecular Pharmacology, 2021, 14, .	1.5	2
5	Synthesis and Aggregation of Polymer- β -Amyloid β Conjugates. Macromolecular Rapid Communications, 2020, 41, 1900378.	3.9	9
6	Lipid-Dependent Interaction of Human N-BAR Domain Proteins with Sarcolemma Mono- and Bilayers. Langmuir, 2020, 36, 8695-8704.	3.5	3
7	Insights into the secondary structures of lactam <i>N</i> -substituted stapled peptides. Organic and Biomolecular Chemistry, 2020, 18, 3838-3842.	2.8	6
8	Modulation of amyloid β peptide aggregation by hydrophilic polymers. Physical Chemistry Chemical Physics, 2019, 21, 20999-21006.	2.8	15
9	In-Cell NMR: Analysis of Protein-Small Molecule Interactions, Metabolic Processes, and Protein Phosphorylation. International Journal of Molecular Sciences, 2019, 20, 378.	4.1	14
10	Probing Polymer Chain Conformation and Fibril Formation of Peptide Conjugates. ChemPhysChem, 2019, 20, 236-240.	2.1	15
11	A Multicomponent Stapling Approach to Exocyclic Functionalized Helical Peptides: Adding Lipids, Sugars, PEGs, Labels, and Handles to the Lactam Bridge. Bioconjugate Chemistry, 2019, 30, 253-259.	3.6	44
12	Hyperbolic Pressure-Temperature Phase Diagram of the Zinc-Finger Protein apoKti11 Detected by NMR Spectroscopy. Journal of Physical Chemistry B, 2019, 123, 792-801.	2.6	8
13	How Fluorescent Tags Modify Oligomer Size Distributions of the Alzheimer Peptide. Biophysical Journal, 2019, 116, 227-238.	0.5	36
14	Phosphorylation-induced unfolding regulates p19 ^{INK4d} during the human cell cycle. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3344-3349.	7.1	28
15	Equilibrium and Kinetic Unfolding of GB1: Stabilization of the Native State by Pressure. Journal of Physical Chemistry B, 2018, 122, 8846-8852.	2.6	10
16	A Cu ²⁺ complex induces the aggregation of human papillomavirus oncoprotein E6 and stabilizes p53. FEBS Journal, 2018, 285, 3013-3025.	4.7	3
17	Targeting the molecular chaperone SlyD to inhibit bacterial growth with a small molecule. Scientific Reports, 2017, 7, 42141.	3.3	12
18	Enhanced Fibril Fragmentation of N-Terminally Truncated and Pyroglutamylyl-Modified β Peptides. Angewandte Chemie - International Edition, 2016, 55, 5081-5084.	13.8	34

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19	Small Molecule Inhibited Parathyroid Hormone Mediated cAMP Response by N-terminus Peptide Binding. <i>Scientific Reports</i> , 2016, 6, 22533.	3.3	5
20	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
21	Inhibition of A β (1-40) fibril formation by cyclophilins. <i>Biochemical Journal</i> , 2016, 473, 1355-1368.	3.7	8
22	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
23	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
24	Protein Folding Mechanism of the Dimeric AmphiphysinII/Bin1 N-BAR Domain. <i>PLoS ONE</i> , 2015, 10, e0136922.	2.5	7
25	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
26	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
27	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
28	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
29	Novel sulfated phosphoglycolipids from <i>Natronomonas moolapensis</i> . <i>Chemistry and Physics of Lipids</i> , 2015, 191, 8-15.	3.2	3
30	N-Terminal Phosphorylation of Parathyroid Hormone (PTH) Abolishes Its Receptor Activity. <i>ACS Chemical Biology</i> , 2014, 9, 2465-2470.	3.4	16
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	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
33	Binding specificity of the ectodomain of the parathyroid hormone receptor. <i>Biophysical Chemistry</i> , 2011, 154, 66-72.	2.8	9
34	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
35	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
36	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

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37	NMR Solution Structure of SlyD from Escherichia coli: Spatial Separation of Prolyl Isomerase and Chaperone Function. <i>Journal of Molecular Biology</i> , 2009, 387, 295-305.	4.2	70
38	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
39	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
40	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
41	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
42	SlyD Proteins from Different Species Exhibit High Prolyl Isomerase and Chaperone Activities. <i>Biochemistry</i> , 2006, 45, 20-33.	2.5	97
43	Combined NMR-observation of cold denaturation in supercooled water and heat denaturation enables accurate measurement of $\Delta\Delta G$ of protein unfolding. <i>European Biophysics Journal</i> , 2006, 35, 363-366.	2.2	43
44	Protein folding and stability of human CDK inhibitor p19INK4d. <i>Journal of Molecular Biology</i> , 2002, 315, 447-457.	4.2	57