Jan Backmann

List of Publications by Year
in descending order

20 papers	990 citations	623734 14 h-index	839539 18 g-index
20 all docs	20 docs citations	20 times ranked	1091 citing authors

#	Article	IF	Citations
1	The crystal structure of triosephosphate isomerase (TIM) fromThermotoga maritima: A comparative thermostability structural analysis of ten different TIM structures. Proteins: Structure, Function and Bioinformatics, 1999, 37, 441-453.	2.6	131
2	Refolding of Thermally and Urea-Denatured Ribonuclease A Monitored by Time-Resolved FTIR Spectroscopyâ€. Biochemistry, 1996, 35, 15822-15830.	2.5	111
3	Impact of Point Mutations on the Structure and Thermal Stability of Ribonuclease T1 in Aqueous Solution Probed by Fourier Transform Infrared Spectroscopy. Biochemistry, 1994, 33, 10725-10730.	2.5	101
4	Structural and mutagenesis studies of leishmania triosephosphate isomerase: a point mutation can convert a mesophilic enzyme into a superstable enzyme without losing catalytic power. Protein Engineering, Design and Selection, 1999, 12, 243-250.	2.1	97
5	Hydrogen Peroxide-induced Structural Alterations of RNase A. Journal of Biological Chemistry, 2001, 276, 9492-9502.	3.4	90
6	Thermodynamics and kinetics of unfolding of the thermostable trimeric adenylate kinase from the archaeon Sulfolobus acidocaldarius. Journal of Molecular Biology, 1998, 284, 817-833.	4.2	85
7	Intricate Interactions within the ccd Plasmid Addiction System. Journal of Biological Chemistry, 2002, 277, 3733-3742.	3.4	69
8	Biophysical and Structural Properties of DNAÂ·diC14-amidine Complexes. Journal of Biological Chemistry, 2000, 275, 29533-29538.	3.4	50
9	The ionization of a buried glutamic acid is thermodynamically linked to the stability of Leishmania mexicana triose phosphate isomerase. FEBS Journal, 2000, 267, 2516-2524.	0.2	49
10	Adenylate Kinase fromSulfolobus acidocaldarius:Expression inEscherichia coliand Characterization by Fourier Transform Infrared Spectroscopy. Archives of Biochemistry and Biophysics, 1996, 333, 75-84.	3.0	34
11	Analysis of a Water Mediated Proteinâ^'Protein Interactions within RNase T1â€,â€¡. Biochemistry, 2000, 39, 6586-6593.	2.5	33
12	Thermally induced hydrogen exchange processes in small proteins as seen by FTIR spectroscopy. , 1996, 24, 379-387.		32
13	The thermodynamic stability of the proteins of the ccd plasmid addiction system. Journal of Molecular Biology, 2000, 299, 1373-1386.	4.2	32
14	Hydrophobic Core Manipulations in Ribonuclease T1â€. Biochemistry, 2001, 40, 10140-10149.	2.5	15
15	X-ray crystallographic and calorimetric studies of the effects of the mutation Trp59 Tyr in ribonuclease T1. FEBS Journal, 1994, 220, 527-534.	0.2	14
16	The structural differences between bovine lens Î±A- and Î±B-crystallin. FEBS Journal, 2000, 267, 5916-5925.	0.2	14
17	Trp59 to Tyr substitution enhances the catalytic activity of RNase T1 and of the Tyr to Trp variants in positions 24, 42 and 45. Protein Engineering, Design and Selection, 1993, 6, 739-744.	2.1	12
18	[28] Thermodynamic analysis of hyperthermostable oligomeric proteins. Methods in Enzymology, 2001, 334, 328-342.	1.0	12

#	Article	IF	Citations
19	Defossilization of pharmaceutical manufacturing. Current Opinion in Green and Sustainable Chemistry, 2022, 33, 100586.	5.9	9
20	Environmental exposure scenario for reagents used in in-vitro diagnostics. Water Research, 2020, 173, 115521.	11.3	0