Pernilla Wittung-stafshede

List of Publications by Citations

245 papers	10,235 citations	50 h-index	90 g-index
282 ext. papers	11,663 ext. citations	6 avg, IF	6.34 L-index

#	Paper	IF	Citations
245	Gut Microbiota Regulate Motor Deficits and Neuroinflammation in a Model of Parkinson's Disease. *Cell*, **2016**, 167, 1469-1480.e12	56.2	1558
244	DNA-like double helix formed by peptide nucleic acid. *Nature*, **1994**, 368, 561-3	50.4	428
243	Gold nanoparticles can induce the formation of protein-based aggregates at physiological pH. *Nano Letters*, **2009**, 9, 666-71	11.5	317
242	Ionic Effects on the Stability and Conformation of Peptide Nucleic Acid Complexes. *Journal of the American Chemical Society*, **1996**, 118, 5544-5552	16.4	248
241	Molecular crowding enhances native structure and stability of alpha/beta protein flavodoxin. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 18976-81	11.5	212
240	Protein folding: defining a "standard" set of experimental conditions and a preliminary kinetic data set of two-state proteins. *Protein Science*, **2005**, 14, 602-16	6.3	181
239	Crowded, cell-like environment induces shape changes in aspherical protein. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 11754-9	11.5	173
238	Role of cofactors in protein folding. *Accounts of Chemical Research*, **2002**, 35, 201-8	24.3	149
237	Effects of folding on metalloprotein active sites. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 4246-9	11.5	146
236	The bacterial curli system possesses a potent and selective inhibitor of amyloid formation. *Molecular Cell*, **2015**, 57, 445-55	17.6	137
235	A gut bacterial amyloid promotes α-synuclein aggregation and motor impairment in mice. *ELife*, **2020**, 9,	8.9	117
234	Factors defining effects of macromolecular crowding on protein stability: an in vitro/in silico case study using cytochrome c. *Biochemistry*, **2010**, 49, 6519-30	3.2	116
233	Structure-Activity Studies of the Binding of Modified Peptide Nucleic Acids (PNAs) to DNA. *Journal of the American Chemical Society*, **1994**, 116, 7964-7970	16.4	113
232	Cytochrome b562 folding triggered by electron transfer: approaching the speed limit for formation of a four-helix-bundle protein. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 6587-90	11.5	111
231	Protein Folding Triggered by Electron Transfer. *Accounts of Chemical Research*, **1998**, 31, 755-763	24.3	110
230	Phospholipid membrane permeability of peptide nucleic acid. *FEBS Letters*, **1995**, 365, 27-9	3.8	110
229	Direct Observation of Strand Invasion by Peptide Nucleic Acid (PNA) into Double-Stranded DNA. *Journal of the American Chemical Society*, **1996**, 118, 7049-7054	16.4	105

228	Macromolecular crowding increases structural content of folded proteins. *FEBS Letters*, **2007**, 581, 5065-98	3.8	95
227	Mechanisms of protein oligomerization: inhibitor of functional amyloids templates -synuclein fibrillation. *Journal of the American Chemical Society*, **2012**, 134, 3439-44	16.4	87
226	Peptide Nucleic Acids with a Conformationally Constrained Chiral Cyclohexyl-Derived Backbone. *Chemistry - A European Journal*, **1997**, 3, 912-919	4.8	86
225	The J-domain of Hsp40 couples ATP hydrolysis to substrate capture in Hsp70. *Biochemistry*, **2003**, 42, 4937-44	3.2	86
224	Induced Chirality in PNA-PNA Duplexes. *Journal of the American Chemical Society*, **1995**, 117, 10167-10173	16.4	86
223	Cisplatin binds human copper chaperone Atox1 and promotes unfolding in vitro. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 6951-6	11.5	85
222	Thermodynamic stability and folding of proteins from hyperthermophilic organisms. *FEBS Journal*, **2007**, 274, 4023-33	5.7	85
221	Cross-talk between amyloidogenic proteins in type-2 diabetes and Parkinson's disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 12473-12477	11.5	80
220	Effect of Hofmeister ions on protein thermal stability: roles of ion hydration and peptide groups?. *Archives of Biochemistry and Biophysics*, **2008**, 479, 69-73	4.1	80
219	Direct optical detection of aptamer conformational changes induced by target molecules. *Analytical Chemistry*, **2009**, 81, 10002-6	7.8	78
218	Response to Harve et al: Effects on protein folding speed and shape despite possible size changes in Ficoll 70. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, E120-E120	11.5	78
217	Extended DNA-recognition repertoire of peptide nucleic acid (PNA): PNA-dsDNA triplex formed with cytosine-rich homopyrimidine PNA. *Biochemistry*, **1997**, 36, 7973-9	3.2	77
216	Role of cofactors in metalloprotein folding. *Quarterly Reviews of Biophysics*, **2004**, 37, 285-314	7	77
215	Reduction potentials of blue and purple copper proteins in their unfolded states: a closer look at rack-induced coordination. *Journal of Biological Inorganic Chemistry*, **1998**, 3, 367-370	3.7	76
214	The effect of the metal ion on the folding energetics of azurin: a comparison of the native, zinc and apoprotein. *BBA - Proteins and Proteomics*, **1997**, 1342, 19-27		75
213	Interactions of DNA binding ligands with PNA-DNA hybrids. *Nucleic Acids Research*, **1994**, 22, 5371-7	20.1	73
212	Macromolecular crowding modulates folding mechanism of alpha/beta protein apoflavodoxin. *Biophysical Journal*, **2009**, 96, 671-80	2.9	69
211	Far-UV Time-Resolved Circular Dichroism Detection of Electron-Transfer-Triggered Cytochrome c Folding. *Journal of the American Chemical Society*, **1999**, 121, 3811-3817	16.4	66

210	The CuA center of cytochrome-c oxidase: electronic structure and spectra of models compared to the properties of CuA domains. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 7167-71	11.5	65
209	Role of metal in folding and stability of copper proteins in vitro. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2012**, 1823, 1594-603	4.9	64
208	Defining the human copper proteome and analysis of its expression variation in cancers. *Metallomics*, **2017**, 9, 112-123	4.5	62
207	Role of cofactors in folding of the blue-copper protein azurin. *Inorganic Chemistry*, **2004**, 43, 7926-33	5.1	61
206	The effect of redox state on the folding free energy of azurin. *Journal of Biological Inorganic Chemistry*, **1997**, 2, 368-371	3.7	60
205	A hyperthermophilic plant-type [2Fe-2S] ferredoxin from Aquifex aeolicus is stabilized by a disulfide bond. *Biochemistry*, **2002**, 41, 3096-108	3.2	60
204	Insulin-degrading enzyme prevents α-synuclein fibril formation in a nonproteolytical manner. *Scientific Reports*, **2015**, 5, 12531	4.9	59
203	Copper binding before polypeptide folding speeds up formation of active (holo) Pseudomonas aeruginosa azurin. *Biochemistry*, **2001**, 40, 13728-33	3.2	59
202	Folding, stability and shape of proteins in crowded environments: experimental and computational approaches. *International Journal of Molecular Sciences*, **2009**, 10, 572-88	6.3	57
201	Biological relevance of metal binding before protein folding. *Journal of the American Chemical Society*, **2001**, 123, 10135-6	16.4	57
200	Modulation of curli assembly and pellicle biofilm formation by chemical and protein chaperones. *Chemistry and Biology*, **2013**, 20, 1245-54		56
199	Effects of macromolecular crowding agents on protein folding in vitro and in silico. *Biophysical Reviews*, **2013**, 5, 137-145	3.7	55
198	Differential effects of alcohols on conformational switchovers in alpha-helical and beta-sheet protein models. *Biochemistry*, **2006**, 45, 7740-9	3.2	55
197	Non-linear effects of macromolecular crowding on enzymatic activity of multi-copper oxidase. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2010**, 1804, 740-4	4	54
196	Direct observation of protein unfolded state compaction in the presence of macromolecular crowding. *Biophysical Journal*, **2013**, 104, 694-704	2.9	53
195	Unique complex between bacterial azurin and tumor-suppressor protein p53. *Biochemical and Biophysical Research Communications*, **2005**, 332, 965-8	3.4	49
194	Dissecting homo-heptamer thermodynamics by isothermal titration calorimetry: entropy-driven assembly of co-chaperonin protein 10. *Biophysical Journal*, **2005**, 89, 3332-6	2.9	49
193	Rapid Formation of a Four-Helix Bundle. Cytochrome b562 Folding Triggered by Electron Transfer. *Journal of the American Chemical Society*, **1997**, 119, 9562-9563	16.4	48

192	Bacterial Chaperones CsgE and CsgC Differentially Modulate Human -Synuclein Amyloid Formation via Transient Contacts. *PLoS ONE*, **2015**, 10, e0140194	3.7	47
191	Folding of an unfolded protein by macromolecular crowding in vitro. *Biochemistry*, **2014**, 53, 2271-7	3.2	46
190	Characterization of the folding landscape of monomeric lactose repressor: quantitative comparison of theory and experiment. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 14569-74	11.5	45
189	Reversible denaturation of oligomeric human chaperonin 10: denatured state depends on chemical denaturant. *Protein Science*, **2000**, 9, 2109-17	6.3	43
188	Copper-transfer mechanism from the human chaperone Atox1 to a metal-binding domain of Wilson disease protein. *Journal of Physical Chemistry B*, **2010**, 114, 3698-706	3.4	42
187	Quantification of excluded volume effects on the folding landscape of Pseudomonas aeruginosa apoazurin in vitro. *Biophysical Journal*, **2013**, 105, 1689-99	2.9	41
186	Copper-Triggered -Hairpin Formation:Initiation Site for Azurin Folding?. *Journal of the American Chemical Society*, **2000**, 122, 6337-6338	16.4	41
185	Copper stabilizes azurin by decreasing the unfolding rate. *Archives of Biochemistry and Biophysics*, **2001**, 390, 146-8	4.1	41
184	Effects of macromolecular crowding on burst phase kinetics of cytochrome c folding. *Biochemistry*, **2012**, 51, 9836-45	3.2	40
183	Conserved residues modulate copper release in human copper chaperone Atox1. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 11158-63	11.5	40
182	Folding of Deoxymyoglobin Triggered by Electron Transfer. *Journal of Physical Chemistry A*, **1998**, 102, 5599-5601	2.8	39
181	On the precision of experimentally determined protein folding rates and phi-values. *Protein Science* , **2006**, 15, 553-63	6.3	39
180	Macromolecular crowding tunes folding landscape of parallel protein, apoflavodoxin. *Journal of the American Chemical Society*, **2011**, 133, 646-8	16.4	38
179	Lysine-60 in copper chaperone Atox1 plays an essential role in adduct formation with a target Wilson disease domain. *Journal of the American Chemical Society*, **2009**, 131, 16371-3	16.4	38
178	Role of structural determinants in folding of the sandwich-like protein Pseudomonas aeruginosa azurin. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 3984-7	11.5	38
177	Role of copper in thermal stability of human ceruloplasmin. *Biophysical Journal*, **2008**, 94, 1384-91	2.9	37
176	An Isc-type extremely thermostable [2Fe-2S] ferredoxin from Aquifex aeolicus. Biochemical, spectroscopic, and unfolding studies. *Biochemistry*, **2003**, 42, 1354-64	3.2	37
175	Presence of the cofactor speeds up folding of Desulfovibrio desulfuricans flavodoxin. *Protein Science*, **2002**, 11, 1129-35	6.3	37

174	Determinants for simultaneous binding of copper and platinum to human chaperone Atox1: hitchhiking not hijacking. *PLoS ONE*, **2013**, 8, e70473	3.7	37
173	Discovery of ligands for ADP-ribosyltransferases via docking-based virtual screening. *Journal of Medicinal Chemistry*, **2012**, 55, 7706-18	8.3	35
172	Stability and folding of the ferredoxin from the hyperthermophilic archaeon Acidianus ambivalens. *Journal of Inorganic Biochemistry*, **2000**, 78, 35-41	4.2	35
171	Copper chaperone Atox1 plays role in breast cancer cell migration. *Biochemical and Biophysical Research Communications*, **2017**, 483, 301-304	3.4	34
170	Probing copper ligands in denatured Pseudomonas aeruginosa azurin: unfolding His117Gly and His46Gly mutants. *Journal of Biological Inorganic Chemistry*, **2001**, 6, 182-8	3.7	34
169	Heme orientation affects holo-myoglobin folding and unfolding kinetics. *FEBS Letters*, **2000**, 470, 203-6	3.8	33
168	Evidence for elongation of the helical pitch of the RecA filament upon ATP and ADP binding using small-angle neutron scattering. *FEBS Journal*, **1995**, 233, 579-83		33
167	Roles of Copper-Binding Proteins in Breast Cancer. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	32
166	Mapping the domain structure of the influenza A virus polymerase acidic protein (PA) and its interaction with the basic protein 1 (PB1) subunit. *Virology*, **2008**, 379, 135-42	3.6	32
165	The largest protein observed to fold by two-state kinetic mechanism does not obey contact-order correlation. *Journal of the American Chemical Society*, **2003**, 125, 9606-7	16.4	32
164	Detection of point mutations in DNA by PNA-based quartz-crystal biosensor. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2000**, 174, 269-273	5.1	32
163	Effect of redox state on the folding free energy of a thermostable electron-transfer metalloprotein: the CuA domain of cytochrome oxidase from Thermus thermophilus. *Biochemistry*, **1998**, 37, 3172-7	3.2	32
162	Snapshots of a dynamic folding nucleus in zinc-substituted Pseudomonas aeruginosa azurin. *Biochemistry*, **2005**, 44, 10054-62	3.2	31
161	Methionine-121 coordination determines metal specificity in unfolded Pseudomonas aeruginosa azurin. *Journal of Biological Inorganic Chemistry*, **2004**, 9, 281-8	3.7	31
160	Equilibrium unfolding of dimeric desulfoferrodoxin involves a monomeric intermediate: iron cofactors dissociate after polypeptide unfolding. *Biochemistry*, **2001**, 40, 4940-8	3.2	31
159	The C-Terminus of Human Copper Importer Ctr1 Acts as a Binding Site and Transfers Copper to Atox1. *Biophysical Journal*, **2016**, 110, 95-102	2.9	30
158	Glycosaminoglycans in human retinoblastoma cells: heparan sulfate, a modulator of the pigment epithelium-derived factor-receptor interactions. *BMC Biochemistry*, **2003**, 4, 1	4.8	29
157	High stability of a ferredoxin from the hyperthermophilic archaeon A. ambivalens: involvement of electrostatic interactions and cofactors. *Protein Science*, **2001**, 10, 1539-48	6.3	29

156	Single-cell tracking demonstrates copper chaperone Atox1 to be required for breast cancer cell migration. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 2014-2019	11.5	28
155	Fucosylated Molecules Competitively Interfere with Cholera Toxin Binding to Host Cells. *ACS Infectious Diseases*, **2018**, 4, 758-770	5.5	28
154	Reaction of platinum anticancer drugs and drug derivatives with a copper transporting protein, Atox1. *Biochemical Pharmacology*, **2012**, 83, 874-81	6	28
153	Observation of a PNA□PNA□PNA Triplex. *Journal of the American Chemical Society*, **1997**, 119, 3189-3190	16.4	28
152	Can cofactor-binding sites in proteins be flexible? Desulfovibrio desulfuricans flavodoxin binds FMN dimer. *Biochemistry*, **2003**, 42, 13074-80	3.2	28
151	X-ray absorption spectroscopy of folded and unfolded copper(I) azurin. *Inorganica Chimica Acta*, **2000**, 297, 278-282	2.7	28
150	Extended functional repertoire for human copper chaperones. *Biomolecular Concepts*, **2016**, 7, 29-39	3.7	27
149	Direct Correlation Between Ligand-Induced □Synuclein Oligomers and Amyloid-like Fibril Growth. *Scientific Reports*, **2015**, 5, 10422	4.9	27
148	Stability and ATP binding of the nucleotide-binding domain of the Wilson disease protein: effect of the common H1069Q mutation. *Journal of Molecular Biology*, **2008**, 383, 1097-111	6.5	27
147	Structure and dynamics of Cu(I) binding in copper chaperones Atox1 and CopZ: a computer simulation study. *Journal of Physical Chemistry B*, **2008**, 112, 4583-93	3.4	26
146	In vitro unfolding of yeast multicopper oxidase Fet3p variants reveals unique role of each metal site. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 19258-63	11.5	26
145	Discrete roles of copper ions in chemical unfolding of human ceruloplasmin. *Biochemistry*, **2007**, 46, 9638-44	3.4	26
144	Impact of cofactor on stability of bacterial (CopZ) and human (Atox1) copper chaperones. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2007**, 1774, 1316-22	4	26
143	An adaptive mutation in adenylate kinase that increases organismal fitness is linked to stability-activity trade-offs. *Protein Engineering, Design and Selection*, **2008**, 21, 19-27	1.9	26
142	Triplet-state quenching in complexes between Zn-cytochrome c and cytochrome oxidase or its CuA domain. *Biophysical Chemistry*, **1995**, 54, 191-7	3.5	26
141	Modulation of □synuclein fibrillization by ring-fused 2-pyridones: templation and inhibition involve oligomers with different structure. *Archives of Biochemistry and Biophysics*, **2013**, 532, 84-90	4.1	25
140	Establishing the entatic state in folding metallated Pseudomonas aeruginosa azurin. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 3159-64	11.5	25
139	The experimental folding landscape of monomeric lactose repressor, a large two-domain protein, involves two kinetic intermediates. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 14563-8	11.5	25

138	Hybridization of 2Rribose modified mixed-sequence oligonucleotides: thermodynamic and kinetic studies. *Nucleic Acids Research*, **2001**, 29, 2163-70	20.1	25
137	Studies of Pseudomonas aeruginosa azurin mutants: cavities in beta-barrel do not affect refolding speed. *Biophysical Journal*, **2002**, 82, 2645-51	2.9	25
136	The cupredoxin fold is found in the soluble CuA and CyoA domains of two terminal oxidases. *FEBS Letters*, **1994**, 349, 286-8	3.8	25
135	Synthetic crowding agent dextran causes excluded volume interactions exclusively to tracer protein apoazurin. *FEBS Letters*, **2014**, 588, 811-4	3.8	24
134	Comparison of chemical and thermal protein denaturation by combination of computational and experimental approaches. II. *Journal of Chemical Physics*, **2011**, 135, 175102	3.9	24
133	Unfolding of heptameric co-chaperonin protein follows "fly casting" mechanism: observation of transient nonnative heptamer. *Journal of the American Chemical Society*, **2005**, 127, 16402-3	16.4	24
132	In vitro thermodynamic dissection of human copper transfer from chaperone to target protein. *PLoS ONE*, **2012**, 7, e36102	3.7	23
131	Effect of inorganic phosphate on FMN binding and loop flexibility in Desulfovibrio desulfuricans apo-flavodoxin. *Journal of Molecular Biology*, **2005**, 349, 87-97	6.5	23
130	Thermal unfolding of Apo and Holo Desulfovibrio desulfuricans flavodoxin: cofactor stabilizes folded and intermediate states. *Biochemistry*, **2004**, 43, 12855-64	3.2	23
129	Approaching the speed limit for Greek Key beta-barrel formation: transition-state movement tunes folding rate of zinc-substituted azurin. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2003**, 1651, 1-4	4	23
128	PNA-Peptide Chimerae. *Tetrahedron Letters*, **1995**, 36, 6933-6936	2	23
127	Macromolecular crowding extended to a heptameric system: the Co-chaperonin protein 10. *Biochemistry*, **2011**, 50, 3034-44	3.2	22
126	Interactions between DNA, transcriptional regulator Dreb2a and the Med25 mediator subunit from Arabidopsis thaliana involve conformational changes. *Nucleic Acids Research*, **2012**, 40, 5938-50	20.1	22
125	No cofactor effect on equilibrium unfolding of Desulfovibrio desulfuricans flavodoxin. *BBA - Proteins and Proteomics*, **2000**, 1479, 214-24		22
124	Effects of protein folding on metalloprotein redox-active sites: electron-transfer properties of blue and purple copper proteins. *Coordination Chemistry Reviews*, **1999**, 185-186, 127-140	23.2	22
123	Experimental evolution of adenylate kinase reveals contrasting strategies toward protein thermostability. *Biophysical Journal*, **2010**, 99, 887-96	2.9	21
122	Conformational dynamics of metal-binding domains in Wilson disease protein: molecular insights into selective copper transfer. *Biochemistry*, **2009**, 48, 5849-63	3.2	21
121	Phi-value analysis of apo-azurin folding: comparison between experiment and theory. *Biochemistry*, **2006**, 45, 6458-66	3.2	21

120	Single-vesicle imaging reveals lipid-selective and stepwise membrane disruption by monomeric □synuclein. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 14178-14186	11.5	20
119	Identification of New Potential Interaction Partners for Human Cytoplasmic Copper Chaperone Atox1: Roles in Gene Regulation?. *International Journal of Molecular Sciences*, **2015**, 16, 16728-39	6.3	20
118	Folding of Desulfovibrio desulfuricans flavodoxin is accelerated by cofactor fly-casting. *Archives of Biochemistry and Biophysics*, **2006**, 451, 51-8	4.1	20
117	Attenuating Listeria monocytogenes Virulence by Targeting the Regulatory Protein PrfA. *Cell Chemical Biology*, **2016**, 23, 404-14	8.2	20
116	Unraveling amyloid formation paths of Parkinson□s disease protein □synuclein triggered by anionic vesicles. *Quarterly Reviews of Biophysics*, **2017**, 50, e3	7	19
115	Alpha-Synuclein Modulates the Physical Properties of DNA. *Chemistry - A European Journal*, **2018**, 24, 15685-15690	4.8	19
114	Human cytoplasmic copper chaperones Atox1 and CCS exchange copper ions in vitro. *BioMetals*, **2015**, 28, 577-85	3.4	19
113	Probing the interface in a human co-chaperonin heptamer: residues disrupting oligomeric unfolded state identified. *BMC Biochemistry*, **2003**, 4, 14	4.8	19
112	Cytochrome c(553), a small heme protein that lacks misligation in its unfolded state, folds with rapid two-state kinetics. *Journal of Molecular Biology*, **2000**, 301, 769-73	6.5	19
111	Extracellular vesicles from human pancreatic islets suppress human islet amyloid polypeptide amyloid formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 11127-11132	11.5	18
110	Insulin-degrading enzyme is activated by the C-terminus of □synuclein. *Biochemical and Biophysical Research Communications*, **2015**, 466, 192-5	3.4	18
109	Interdomain interactions modulate collective dynamics of the metal-binding domains in the Wilson disease protein. *Journal of Physical Chemistry B*, **2010**, 114, 1836-48	3.4	18
108	A stable, molten-globule-like cytochrome c. *BBA - Proteins and Proteomics*, **1998**, 1382, 324-32		18
107	Role of cations in stability of acidic protein Desulfovibrio desulfuricans apoflavodoxin. *Archives of Biochemistry and Biophysics*, **2008**, 474, 128-35	4.1	18
106	Kinetic folding and assembly mechanisms differ for two homologous heptamers. *Journal of Molecular Biology*, **2006**, 363, 729-42	6.5	18
105	Formation of a linear [3Fe-4S] cluster in a seven-iron ferredoxin triggered by polypeptide unfolding. *Journal of Biological Inorganic Chemistry*, **2002**, 7, 357-62	3.7	18
104	Abundant fish protein inhibits □synuclein amyloid formation. *Scientific Reports*, **2018**, 8, 5465	4.9	17
103	Differential roles of Met10, Thr11, and Lys60 in structural dynamics of human copper chaperone Atox1. *Biochemistry*, **2009**, 48, 960-72	3.2	17

102	FMN binding and unfolding of Desulfovibrio desulfuricans flavodoxin: "hidden" intermediates at low denaturant concentrations. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2005**, 1747, 239-50	4	17
101	Secondary structure of RecA in solution. The effects of cofactor, DNA and ionic conditions. *FEBS Journal*, **1995**, 228, 149-54		17
100	Human Copper Chaperone Atox1 Translocates to the Nucleus but does not Bind DNA In Vitro. *Protein and Peptide Letters*, **2015**, 22, 532-8	1.9	17
99	Crowding-Induced Elongated Conformation of Urea-Unfolded Apoazurin: Investigating the Role of Crowder Shape in Silico. *Journal of Physical Chemistry B*, **2019**, 123, 3607-3617	3.4	16
98	The six metal binding domains in human copper transporter, ATP7B: molecular biophysics and disease-causing mutations. *BioMetals*, **2017**, 30, 823-840	3.4	16
97	Interaction between the anticancer drug Cisplatin and the copper chaperone Atox1 in human melanoma cells. *Protein and Peptide Letters*, **2014**, 21, 63-8	1.9	16
96	High-potential states of blue and purple copper proteins. *BBA - Proteins and Proteomics*, **1998**, 1388, 437-43		16
95	Folding and assembly pathways of co-chaperonin proteins 10: Origin of bacterial thermostability. *Archives of Biochemistry and Biophysics*, **2006**, 456, 8-18	4.1	16
94	High thermal and chemical stability of Thermus thermophilus seven-iron ferredoxin. Linear clusters form at high pH on polypeptide unfolding. *FEBS Journal*, **2003**, 270, 4736-43		16
93	Low stability for monomeric human chaperonin protein 10: interprotein interactions contribute majority of oligomer stability. *Archives of Biochemistry and Biophysics*, **2002**, 405, 280-2	4.1	16
92	Effect of redox state on unfolding energetics of heme proteins. *BBA - Proteins and Proteomics*, **1999** , 1432, 401-5		16
91	Folding of copper proteins: role of the metal?. *Quarterly Reviews of Biophysics*, **2018**, 51, e4	7	15
90	Enthalpy-entropy compensation at play in human copper ion transfer. *Scientific Reports*, **2015**, 5, 10518	4.9	15
89	Similar but different: thermodynamic and structural characterization of a pair of enantiomers binding to acetylcholinesterase. *Angewandte Chemie - International Edition*, **2012**, 51, 12716-20	16.4	15
88	Slow unfolding explains high stability of thermostable ferredoxins: common mechanism governing thermostability?. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2004**, 1700, 1-4	4	15
87	Equilibrium unfolding of a small low-potential cytochrome, cytochrome c553 from Desulfovibrio vulgaris. *Protein Science*, **1999**, 8, 1523-9	6.3	15
86	Second-site RecA-DNA interactions: lack of identical recognition. *Biochemistry*, **1996**, 35, 15349-55	3.2	15
85	A stretched conformation of DNA with a biological role?. *Quarterly Reviews of Biophysics*, **2017**, 50, e11	7	15

84	T versus D in the MTCXXC motif of copper transport proteins plays a role in directional metal transport. *Journal of Biological Inorganic Chemistry*, **2014**, 19, 1037-47	3.7	14
83	Small pH and salt variations radically alter the thermal stability of metal-binding domains in the copper transporter, Wilson disease protein. *Journal of Physical Chemistry B*, **2013**, 117, 13038-50	3.4	14
82	Monomer topology defines folding speed of heptamer. *Protein Science*, **2004**, 13, 1317-21	6.3	14
81	In vitro membrane penetration of modified peptide nucleic acid (PNA). *Journal of Biomolecular Structure and Dynamics*, **1999**, 17, 33-40	3.6	14
80	Correlation between Cellular Uptake and Cytotoxicity of Fragmented β-Synuclein Amyloid Fibrils Suggests Intracellular Basis for Toxicity. *ACS Chemical Neuroscience*, **2020**, 11, 233-241	5.7	14
79	Copper binding triggers compaction in N-terminal tail of human copper pump ATP7B. *Biochemical and Biophysical Research Communications*, **2016**, 470, 663-669	3.4	13
78	Unresolved questions in human copper pump mechanisms. *Quarterly Reviews of Biophysics*, **2015**, 48, 471-8	7	13
77	Disease-causing point-mutations in metal-binding domains of Wilson disease protein decrease stability and increase structural dynamics. *BioMetals*, **2017**, 30, 27-35	3.4	13
76	Synthesis of Multiring Fused 2-Pyridones via a Nitrene Insertion Reaction: Fluorescent Modulators of β-Synuclein Amyloid Formation. *Organic Letters*, **2015**, 17, 6194-7	6.2	13
75	Location and flexibility of the unique C-terminal tail of Aquifex aeolicus co-chaperonin protein 10 as derived by cryo-electron microscopy and biophysical techniques. *Journal of Molecular Biology*, **2008**, 381, 707-17	6.5	13
74	Solvation of the folding-transition state in Pseudomonas aeruginosa azurin is modulated by metal: Solvation of azurin's folding nucleus. *Protein Science*, **2006**, 15, 843-52	6.3	13
73	Electron-transfer studies with the CuA domain of Thermus thermophilus cytochrome ba3. *Inorganica Chimica Acta*, **1996**, 243, 141-145	2.7	13
72	Absorption flattening in the optical spectra of liposome-entrapped substances. *FEBS Letters*, **1994**, 352, 37-40	3.8	13
71	Tuning of copper-loop flexibility in Bacillus subtilis CopZ copper chaperone: role of conserved residues. *Journal of Physical Chemistry B*, **2009**, 113, 1919-32	3.4	12
70	Role of copper in folding and stability of cupredoxin-like copper-carrier protein CopC. *Archives of Biochemistry and Biophysics*, **2007**, 467, 58-66	4.1	12
69	Formation of linear three-iron clusters in Aquifex aeolicus two-iron ferredoxins: effect of protein-unfolding speed. *Archives of Biochemistry and Biophysics*, **2004**, 427, 154-63	4.1	12
68	Redox-linked conformational changes in cytochrome c oxidase. *FEBS Letters*, **1996**, 388, 47-9	3.8	12
67	Copper relay path through the N-terminus of Wilson disease protein, ATP7B. *Metallomics*, **2019**, 11, 1472-1480	4.1	11

66	Residue-specific analysis of frustration in the folding landscape of repeat beta/alpha protein apoflavodoxin. *Journal of Molecular Biology*, **2010**, 396, 75-89	6.5	11
65	A ferredoxin from the thermohalophilic bacterium Rhodothermus marinus. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2002**, 1601, 1-8	4	11
64	Base orientation of second DNA in RecA.DNA filaments. Analysis by combination of linear dichroism and small angle neutron scattering in flow-oriented solution. *Journal of Biological Chemistry*, **1998**, 273, 15682-6	5.4	11
63	How do cofactors modulate protein folding?. *Protein and Peptide Letters*, **2005**, 12, 165-70	1.9	11
62	Evaluation of copper chaperone ATOX1 as prognostic biomarker in breast cancer. *Breast Cancer*, **2020**, 27, 505-509	3.4	11
61	Female Faculty: Why So Few and Why Care?. *Chemistry - A European Journal*, **2020**, 26, 8319-8323	4.8	10
60	Interaction between Copper Chaperone Atox1 and Parkinson□s Disease Protein □Synuclein Includes Metal-Binding Sites and Occurs in Living Cells. *ACS Chemical Neuroscience*, **2019**, 10, 4659-4668	5.7	10
59	Macromolecular crowding effects on two homologs of ribosomal protein s16: protein-dependent structural changes and local interactions. *Biophysical Journal*, **2014**, 107, 401-410	2.9	10
58	Probing functional roles of Wilson disease protein (ATP7B) copper-binding domains in yeast. *Metallomics*, **2017**, 9, 981-988	4.5	10
57	Correlation between protein stability cores and protein folding kinetics: a case study on Pseudomonas aeruginosa apo-azurin. *Structure*, **2006**, 14, 1401-10	5.2	10
56	Role of the unique peptide tail in hyperthermostable Aquifex aeolicus cochaperonin protein 10. *Biochemistry*, **2005**, 44, 14385-95	3.2	10
55	Exceptional stability of a [2Fe-2S] ferredoxin from hyperthermophilic bacterium Aquifex aeolicus. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2002**, 1599, 82-9	4	10
54	Characterization of surface antigen from Lyme disease spirochete Borrelia burgdorferi. *Biochemical and Biophysical Research Communications*, **2001**, 289, 389-94	3.4	10
53	Effects of small-molecule amyloid modulators on a Drosophila model of Parkinson□s disease. *PLoS ONE*, **2017**, 12, e0184117	3.7	10
52	Mirror-Image 5S Ribonucleoprotein Complexes. *Angewandte Chemie - International Edition*, **2020**, 59, 3724-3731	16.4	10
51	3D-Models of Insulin-Producing □Cells: from Primary Islet Cells to Stem Cell-Derived Islets. *Stem Cell Reviews and Reports*, **2018**, 14, 177-188	6.4	10
50	Copper Chaperone Atox1 Interacts with Cell Cycle Proteins. *Computational and Structural Biotechnology Journal*, **2018**, 16, 443-449	6.8	9
49	Macromolecular crowding modulates □synuclein amyloid fiber growth. *Biophysical Journal*, **2021**, 120, 3374-3381	2.9	9

48	First characterization of co-chaperonin protein 10 from hyper-thermophilic Aquifex aeolicus. *Biochemical and Biophysical Research Communications*, **2004**, 317, 176-80	3.4	8
47	Buried water molecules contribute to cytochrome f stability. *Archives of Biochemistry and Biophysics*, **2002**, 404, 335-7	4.1	8
46	Fluorescence-detected interactions of oligonucleotides in RecA complexes. *FEBS Letters*, **1995**, 368, 64-8	3.8	8
45	Membrane-Protein-Hydration Interaction of α-Synuclein with Anionic Vesicles Probed via Angle-Resolved Second-Harmonic Scattering. *Journal of Physical Chemistry B*, **2019**, 123, 1044-1049	3.4	8
44	Copper chaperone blocks amyloid formation via ternary complex. *Quarterly Reviews of Biophysics*, **2018**, 51, e6	7	7
43	Single injection of small-molecule amyloid accelerator results in cell death of nigral dopamine neurons in mice. *Npj Parkinson's Disease*, **2015**, 1, 15024	9.7	7
42	Protein folding inside the cell. *Biophysical Journal*, **2011**, 101, 265-6	2.9	7
41	Pseudosymmetry, high copy number and twinning complicate the structure determination of Desulfovibrio desulfuricans (ATCC 29577) flavodoxin. *Acta Crystallographica Section D: Biological Crystallography*, **2009**, 65, 523-34		7
40	Med8, Med18, and Med20 subunits of the Mediator head domain are interdependent upon each other for folding and complex formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 20728-33	11.5	6
39	Novel "three-in-one" peptide device for genetic drug delivery. *Protein and Peptide Letters*, **2003**, 10, 1-7	1.9	6
38	The L2 loop peptide of RecA stiffens and restricts base motions of single-stranded DNA similar to the intact protein. *FEBS Letters*, **1999**, 446, 30-4	3.8	6
37	Second harmonic generation for collagen I characterization in rectal cancer patients with and without preoperative radiotherapy. *Journal of Biomedical Optics*, **2017**, 22, 1-6	3.5	6
36	ATP7A-Regulated Enzyme Metalation and Trafficking in the Menkes Disease Puzzle. *Biomedicines*, **2021**, 9,	4.8	6
35	Copper distribution in breast cancer cells detected by time-of-flight secondary ion mass spectrometry with delayed extraction methodology. *Biointerphases*, **2018**, 13, 06E412	1.8	6
34	Synaptic vesicle mimics affect the aggregation of wild-type and A53T α-synuclein variants differently albeit similar membrane affinity. *Protein Engineering, Design and Selection*, **2019**, 32, 59-66	1.9	5
33	Differential effects of Cu and Fe ions on in vitro amyloid formation of biologically-relevant α-synuclein variants. *BioMetals*, **2020**, 33, 97-106	3.4	5
32	A Copper Story: From Protein Folding and Metal Transport to Cancer. *Israel Journal of Chemistry*, **2016**, 56, 671-681	3.4	5
31	Wilson disease missense mutations in ATP7B affect metal-binding domain structural dynamics. *BioMetals*, **2019**, 32, 875-885	3.4	5

30	Copper chaperone ATOX1 regulates pluripotency factor OCT4 in preimplantation mouse embryos. *Biochemical and Biophysical Research Communications*, **2017**, 491, 147-153	3.4	5
29	Interface mutation in heptameric co-chaperonin protein 10 destabilizes subunits but not interfaces. *Archives of Biochemistry and Biophysics*, **2005**, 439, 175-83	4.1	5
28	Spectroscopic observation of renaturation between polynucleotides with RecA in the presence of ATP hydrolysis. *FEBS Journal*, **1994**, 224, 39-45		5
27	Crosstalk Between Alpha-Synuclein and Other Human and Non-Human Amyloidogenic Proteins: Consequences for Amyloid Formation in Parkinson's Disease. *Journal of Parkinson's Disease*, **2020**, 10, 819-830	5.3	4
26	Predicting protein folding cores by empirical potential functions. *Archives of Biochemistry and Biophysics*, **2009**, 483, 16-22	4.1	4
25	Unfolding the unique c-type heme protein, Chlamydomonas reinhardtii cytochrome f. *BBA - Proteins and Proteomics*, **2002**, 1596, 163-71		4
24	If space is provided, bulky modification on the rim of azurin's beta-barrel results in folded protein. *FEBS Letters*, **2002**, 531, 209-14	3.8	4
23	Amyloid formation of fish β-parvalbumin involves primary nucleation triggered by disulfide-bridged protein dimers. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 27997-28004	11.5	4
22	Geometrical Description of Protein Structural Motifs. *Journal of Physical Chemistry B*, **2018**, 122, 11289-11294	3.4	4
21	Synergistic Effects of Copper Sites on Apparent Stability of Multicopper Oxidase, Fet3p. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	3
20	Folding and assembly of co-chaperonin heptamer probed by forster resonance energy transfer. *Archives of Biochemistry and Biophysics*, **2007**, 464, 306-13	4.1	3
19	Orientation of α-Synuclein at Negatively Charged Lipid Vesicles: Linear Dichroism Reveals Time-Dependent Changes in Helix Binding Mode. *Journal of the American Chemical Society*, **2021**, 143, 18899-18906	16.4	3
18	In Vitro Analysis of α-Synuclein Amyloid Formation and Cross-Reactivity. *Methods in Molecular Biology*, **2018**, 1779, 73-83	1.4	2
17	Stability determines formation rate of four-helix-bundle protein. *Archives of Biochemistry and Biophysics*, **2000**, 378, 190-1	4.1	2
16	The copper chaperone CCS facilitates copper binding to MEK1/2 to promote kinase activation. *Journal of Biological Chemistry*, **2021**, 297, 101314	5.4	2
15	The Zero-Order Loop in Apoazurin Modulates Folding Mechanism In Silico. *Journal of Physical Chemistry B*, **2021**, 125, 3501-3509	3.4	2
14	A Luminal Loop of Wilson Disease Protein Binds Copper and Is Required for Protein Activity. *Biophysical Journal*, **2018**, 115, 1007-1018	2.9	2
13	The rate of formation of cytochrome c553 is not dependent on the nature of the unfolded state. *Archives of Biochemistry and Biophysics*, **2001**, 389, 150-2	4.1	1

List of Publications

12	Effects of the Toxic Metals Arsenite and Cadmium on Synuclein Aggregation In Vitro and in Cells. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
11	Metal Ions, Protein Folding, and Conformational States **2010**, 3-11		1
10	Stability and Folding of Copper-Binding Proteins **2010**, 61-80		1
9	Response to crowded conditions reveals compact nucleus for amyloid formation of folded protein. *QRB Discovery*, **2021**, 2,	2.7	1
8	C-terminal truncation of Synuclein alters DNA structure from extension to compaction. *Biochemical and Biophysical Research Communications*, **2021**, 568, 43-47	3.4	1
7	Impact of crowded environments on binding between protein and single-stranded DNA. *Scientific Reports*, **2021**, 11, 17682	4.9	1
6	Gut power: Modulation of human amyloid formation by amyloidogenic proteins in the gastrointestinal tract. *Current Opinion in Structural Biology*, **2021**, 72, 33-38	8.1	1
5	The Caenorhabditis elegans homolog of human copper chaperone Atox1, CUC-1, aids in distal tip cell migration. *BioMetals*, **2020**, 33, 147-157	3.4	0
4	Mirror-Image 5S Ribonucleoprotein Complexes. *Angewandte Chemie*, **2020**, 132, 3753-3760	3.6	0
3	Formation of linear three-iron clusters in Aquifex aeolicus two-iron ferredoxins: effect of protein-unfolding speed. *Archives of Biochemistry and Biophysics*, **2004**, 427, 154-154	4.1	
2	My journey in academia: things not on the CV. *Pure and Applied Chemistry*, **2020**, 92, 789-796	2.1	
1	Another pearl in the "copper-transport" necklace. *Biophysical Journal*, **2021**, 120, 4305-4306	2.9	