Tsutomu Arakawa

List of Publications by Year
in descending order

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188 papers	14,174 citations	26567 56 h-index	20900 115 g-index
194 all docs	194 docs citations	194 times ranked	9308 citing authors

#	Article	IF	Citations
1	Stabilization of protein structure by sugars. Biochemistry, 1982, 21, 6536-6544.	1.2	1,050
2	Preferential interactions of proteins with salts in concentrated solutions. Biochemistry, 1982, 21, 6545-6552.	1.2	670
3	Mechanism of protein salting in and salting out by divalent cation salts: balance between hydration and salt binding. Biochemistry, 1984, 23, 5912-5923.	1.2	609
4	Size-Exclusion Chromatography with On-Line Light-Scattering, Absorbance, and Refractive Index Detectors for Studying Proteins and Their Interactions. Analytical Biochemistry, 1996, 240, 155-166.	1.1	487
5	Mechanism of polyethylene glycol interaction with proteins. Biochemistry, 1985, 24, 6756-6762.	1.2	446
6	Suppression of protein interactions by arginine: A proposed mechanism of the arginine effects. Biophysical Chemistry, 2007, 127, 1-8.	1.5	439
7	Factors affecting short-term and long-term stabilities of proteins. Advanced Drug Delivery Reviews, 2001, 46, 307-326.	6.6	428
8	Role of Arginine in Protein Refolding, Solubilization, and Purification. Biotechnology Progress, 2004, 20, 1301-1308.	1.3	378
9	Practical considerations in refolding proteins from inclusion bodies. Protein Expression and Purification, 2003, 28, 1-8.	0.6	366
10	The effects of arginine on refolding of aggregated proteins: not facilitate refolding, but suppress aggregation. Biochemical and Biophysical Research Communications, 2003, 304, 148-152.	1.0	324
11	Preferential interactions of proteins with solvent components in aqueous amino acid solutions. Archives of Biochemistry and Biophysics, 1983, 224, 169-177.	1.4	320
12	[3]Theory of protein solubility. Methods in Enzymology, 1985, 114, 49-77.	0.4	317
13	Interactions of formulation excipients with proteins in solution and in the dried state. Advanced Drug Delivery Reviews, 2011, 63, 1053-1073.	6.6	307
14	Contribution of the Surface Free Energy Perturbation to Protein-Solvent Interactions. Biochemistry, 1994, 33, 15178-15189.	1.2	280
15	Protein precipitation and denaturation by dimethyl sulfoxide. Biophysical Chemistry, 2007, 131, 62-70.	1.5	260
16	Mechanisms of Protein Aggregation. Current Pharmaceutical Biotechnology, 2009, 10, 348-351.	0.9	246
17	The basis for toxicity of certain cryoprotectants: A hypothesis. Cryobiology, 1990, 27, 401-415.	0.3	244
18	Why preferential hydration does not always stabilize the native structure of globular proteins. Biochemistry, 1990, 29, 1924-1931.	1.2	238

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19	Preferential interactions determine protein solubility in three-component solutions: the magnesium chloride system. Biochemistry, 1990, 29, 1914-1923.	1.2	231
20	Protein stabilization and destabilization by guanidinium salts. Biochemistry, 1984, 23, 5924-5929.	1.2	218
21	Effect of Additives on Protein Aggregation. Current Pharmaceutical Biotechnology, 2009, 10, 400-407.	0.9	211
22	Dimerization of the Extracellular Domain of the Erythropoietin (EPO) Receptor by EPO:â€‰ One High-Affinity and One Low-Affinity Interaction. Biochemistry, 1996, 35, 1681-1691.	1.2	200
23	Protein--solvent interactions in pharmaceutical formulations. Pharmaceutical Research, 1991, 08, 285-291.	1.7	190
24	The critical role of mobile phase composition in size exclusion chromatography of protein pharmaceuticals. Journal of Pharmaceutical Sciences, 2010, 99, 1674-1692.	1.6	188
25	Factors affecting short-term and long-term stabilities of proteins. Advanced Drug Delivery Reviews, 1993, 10, 1-28.	6.6	186
26	Elution of antibodies from a Protein-A column by aqueous arginine solutions. Protein Expression and Purification, 2004, 36, 244-248.	0.6	181
27	Effects of acid exposure on the conformation, stability, and aggregation of monoclonal antibodies. Proteins: Structure, Function and Bioinformatics, 2006, 66, 954-962.	1.5	176
28	Mechanism of protein precipitation and stabilization by co-solvents. Journal of Crystal Growth, 1988, 90, 39-46.	0.7	139
29	Optimization of lyophilization conditions for recombinant human interleukin-2 by dried-state conformational analysis using Fourier-transform infrared spectroscopy. Pharmaceutical Research, 1995, 12, 1250-1259.	1.7	138
30	Arginine as an effective additive in gel permeation chromatography. Journal of Chromatography A, 2005, 1094, 49-55.	1.8	138
31	Solubilization of active green fluorescent protein from insoluble particles by guanidine and arginine. Biochemical and Biophysical Research Communications, 2003, 312, 1383-1386.	1.0	134
32	Small molecule pharmacological chaperones: From thermodynamic stabilization to pharmaceutical drugs. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1677-1687.	1.1	129
33	FGF-18, a Novel Member of the Fibroblast Growth Factor Family, Stimulates Hepatic and Intestinal Proliferation. Molecular and Cellular Biology, 1998, 18, 6063-6074.	1.1	128
34	Effective elution of antibodies by arginine and arginine derivatives in affinity column chromatography. Analytical Biochemistry, 2005, 345, 250-257.	1.1	116
35	Comparison of Solute-Induced Protein Stabilization in Aqueous Solution and in the Frozen and Dried States. Journal of Dairy Science, 1990, 73, 3627-3636.	1.4	113
36	Is arginine a protein-denaturant?. Protein Expression and Purification, 2005, 42, 1-6.	0.6	103

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37	Review: Why is Arginine Effective in Suppressing Aggregation?. Protein and Peptide Letters, 2005, 12, 613-619.	0.4	95
38	Effects of salts on proteinâ€“surface interactions: applications for column chromatography. Journal of Pharmaceutical Sciences, 2007, 96, 1677-1690.	1.6	95
39	Specific Decrease in Solution Viscosity of Antibodies by Arginine for Therapeutic Formulations. Molecular Pharmaceutics, 2014, 11, 1889-1896.	2.3	95
40	The effects of arginine on protein binding and elution in hydrophobic interaction and ion-exchange chromatography. Protein Expression and Purification, 2007, 54, 110-116.	0.6	94
41	Abnormal solubility behavior of .beta.-lactoglobulin: salting-in by glycine and sodium chloride. Biochemistry, 1987, 26, 5147-5153.	1.2	90
42	Mechanistic insights into protein precipitation by alcohol. International Journal of Biological Macromolecules, 2012, 50, 865-871.	3.6	84
43	Protection of Bovine Serum Albumin from Aggregation by Tween 80. Journal of Pharmaceutical Sciences, 2000, 89, 646-651.	1.6	83
44	Arginine-Assisted Solubilization System for Drug Substances: Solubility Experiment and Simulation. Journal of Physical Chemistry B, 2010, 114, 13455-13462.	1.2	82
45	Synergistic solubilization of porcine myosin in physiological salt solution by arginine. International Journal of Biological Macromolecules, 2013, 62, 647-651.	3.6	78
46	Strategies To Suppress Aggregation of Recombinant Keratinocyte Growth Factor during Liquid Formulation Developmentâ€. Journal of Pharmaceutical Sciences, 1994, 83, 1657-1661.	1.6	76
47	Dimerization of the Extracellular Domain of Granulocyte-Colony Stimulating Factor Receptor by Ligand Binding:Â A Monovalent Ligand Induces 2:2 Complexes. Biochemistry, 1996, 35, 4886-4896.	1.2	74
48	Chemical and Pharmacological Chaperones: Application for Recombinant Protein Production and Protein Folding Diseases. Current Medicinal Chemistry, 2011, 18, 1-15.	1.2	70
49	Arginine Increases the Solubility of Coumarin: Comparison with Salting-in and Salting-out Additives. Journal of Biochemistry, 2008, 144, 363-369.	0.9	68
50	Thermodynamic analysis of the effect of concentrated salts on protein interaction with hydrophobic and polysaccharide columns. Archives of Biochemistry and Biophysics, 1986, 248, 101-105.	1.4	67
51	Aggregation pathway of recombinant human keratinocyte growth factor and its stabilization. Pharmaceutical Research, 1994, 11, 1581-1587.	1.7	64
52	MEP chromatography of antibody and Fc-fusion protein using aqueous arginine solution. Protein Expression and Purification, 2009, 63, 158-163.	0.6	63
53	Arginine and lysine reduce the high viscosity of serum albumin solutions for pharmaceutical injection. Journal of Bioscience and Bioengineering, 2014, 117, 539-543.	1.1	61
54	Stabilization of Recombinant Human Keratinocyte Growth Factor by Osmolytes and Salts. Journal of Pharmaceutical Sciences, 1996, 85, 419-422.	1.6	60

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55	Nondenaturing solubilization of Î²2 microglobulin from inclusion bodies by l-arginine. Biochemical and Biophysical Research Communications, 2005, 328, 189-197.	1.0	60
56	A new strategy for enhancing the stability of lyophilized protein: the effect of the reconstitution medium on keratinocyte growth factor. Pharmaceutical Research, 1995, 12, 1447-1452.	1.7	58
57	Aggregation Suppression of Proteins by Arginine During Thermal Unfolding. Protein and Peptide Letters, 2006, 13, 921-927.	0.4	58
58	Protection of bovine serum albumin from aggregation by Tween 80. Journal of Pharmaceutical Sciences, 2000, 89, 646.	1.6	58
59	Solubility enhancement of gluten and organic compounds by arginine. International Journal of Pharmaceutics, 2008, 355, 220-223.	2.6	51
60	The effect of the reconstitution medium on aggregation of lyophilized recombinant interleukin-2 and ribonuclease A. Pharmaceutical Research, 1996, 13, 643-646.	1.7	49
61	Arginine improves protein elution in hydrophobic interaction chromatography. Journal of Chromatography A, 2007, 1154, 81-86.	1.8	49
62	MEP HyperCel chromatography II: Binding, washing and elution. Protein Expression and Purification, 2010, 71, 168-173.	0.6	46
63	Highly efficient renaturation of Î²-lactamase isolated from moderately halophilic bacteria. FEBS Letters, 2004, 558, 7-12.	1.3	45
64	Stabilizing effects of caprylate and acetyltryptophanate on heat-induced aggregation of bovine serum albumin. BBA - Proteins and Proteomics, 2000, 1479, 32-36.	2.1	44
65	Stability of Recombinant Consensus Interferon to Airâ€Jet and Ultrasonic Nebulization. Journal of Pharmaceutical Sciences, 1995, 84, 1210-1214.	1.6	43
66	Improved performance of column chromatography by arginine: Dye-affinity chromatography. Protein Expression and Purification, 2007, 52, 410-414.	0.6	43
67	Effect of Three Elution Buffers on the Recovery and Structure of Monoclonal Antibodies. Analytical Biochemistry, 1997, 253, 236-245.	1.1	40
68	Antiviral and Virucidal Activities of Natural Products. Current Medicinal Chemistry, 2009, 16, 2485-2497.	1.2	40
69	Refractive Index of Proteins in Aqueous Sodium Chloride. Analytical Biochemistry, 2000, 280, 327-329.	1.1	38
70	Refolding single-chain antibody (scFv) using lauroyl-l-glutamate as a solubilization detergent and arginine as a refolding additive. Protein Expression and Purification, 2011, 77, 68-74.	0.6	38
71	Molecular weights of glycosylated and nonglycosylated forms of recombinant human stem cell factor determined by low-angle laser light scattering. Analytical Biochemistry, 1992, 203, 53-57.	1.1	37
72	Reversibility of heat-induced denaturation of the recombinant human megakaryocyte growth and development factor. Pharmaceutical Research, 1999, 16, 799-807.	1.7	36

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73	Arginine Facilitates Inactivation of Enveloped Viruses. Journal of Pharmaceutical Sciences, 2008, 97, 3067-3073.	1.6	36
74	Arginine increases the solubility of alkyl gallates through interaction with the aromatic ring. Journal of Biochemistry, 2011, 149, 389-394.	0.9	36
75	Interaction of arginine with Capto MMC in multimodal chromatography. Journal of Chromatography A, 2014, 1338, 58-66.	1.8	36
76	Molecular Dynamics Simulation of the Arginine-Assisted Solubilization of Caffeic Acid: Intervention in the Interaction. Journal of Physical Chemistry B, 2013, 117, 7518-7527.	1.2	35
77	Solvent Modulation of Column Chromatography. Protein and Peptide Letters, 2008, 15, 544-555.	0.4	34
78	Multi-Faceted Arginine: Mechanism of the Effects of Arginine on Protein. Current Protein and Peptide Science, 2014, 15, 608-620.	0.7	33
79	Kinetic and Thermodynamic Analysis of Thermal Unfolding of Recombinant Erythropoietin. Bioscience, Biotechnology and Biochemistry, 2001, 65, 1321-1327.	0.6	31
80	Charge state of arginine as an additive on heat-induced protein aggregation.. International Journal of Biological Macromolecules, 2016, 87, 563-569.	3.6	31
81	A novel protein refolding system using lauroyl-l-glutamate as a solubilizing detergent and arginine as a folding assisting agent. Protein Expression and Purification, 2011, 75, 46-54.	0.6	30
82	Fractionation and Characterization of Polyclonal Antibodies Using Three Progressively More Chaotropic Solvents. Analytical Biochemistry, 1997, 253, 246-252.	1.1	28
83	Arginine Inhibits Adsorption of Proteins on Polystyrene Surface. PLoS ONE, 2013, 8, e70762.	1.1	28
84	Non-Denaturing Solubilization of Inclusion Bodies. Current Pharmaceutical Biotechnology, 2010, 11, 309-312.	0.9	27
85	The solubility of nucleobases in aqueous arginine solutions. Archives of Biochemistry and Biophysics, 2010, 497, 90-96.	1.4	27
86	Disulfide Structure andN-Glycosylation Sites of an Extracellular Domain of Granulocyte-Colony Stimulating Factor Receptor. Biochemistry, 1996, 35, 13040-13046.	1.2	26
87	Agarose native gel electrophoresis of proteins. International Journal of Biological Macromolecules, 2019, 140, 668-671.	3.6	26
88	The mechanism of increased elution volume of proteins by polyethylene glycol. Analytical Biochemistry, 1985, 144, 267-268.	1.1	25
89	Activation of halophilic nucleoside diphosphate kinase by a non-ionic osmolyte, trimethylamine N-oxide. The Protein Journal, 2003, 22, 345-351.	1.1	25
90	Protein aggregation under high concentration/density state during chromatographic and ultrafiltration processes. International Journal of Biological Macromolecules, 2017, 95, 1153-1158.	3.6	25

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91	Structural insights into assembly and function of the RSC chromatin remodeling complex. Nature Structural and Molecular Biology, 2021, 28, 71-80.	3.6	25
92	Analysis of protein denaturation, aggregation and post-translational modification by agarose native gel electrophoresis. International Journal of Biological Macromolecules, 2021, 172, 589-596.	3.6	25
93	Hydrophobic interaction chromatography in alkaline pH. Analytical Biochemistry, 1989, 182, 266-270.	1.1	24
94	Determination of Carbohydrate Contents from Excess Light Scattering. Analytical Biochemistry, 2001, 299, 158-161.	1.1	24
95	The secondary structure analysis of a potent Ser14Gly analog of antiAlzheimer peptide, Humanin, by circular dichroism. Journal of Peptide Science, 2006, 12, 639-642.	0.8	24
96	Antiviral effect of arginine against herpes simplex virus type 1. International Journal of Molecular Medicine, 2009, 23, 495-9.	1.8	24
97	Agarose native gel electrophoresis for characterization of antibodies. International Journal of Biological Macromolecules, 2020, 151, 885-890.	3.6	24
98	Butyroyl-arginine as a potent virus inactivation agent. International Journal of Pharmaceutics, 2008, 361, 92-98.	2.6	23
99	Mechanism of protein desorption from 4-mercaptoethylpyridine resins by arginine solutions. Journal of Chromatography A, 2014, 1373, 141-148.	1.8	23
100	Thermal aggregation of human immunoglobulin G in arginine solutions: Contrasting effects of stabilizers and destabilizers. International Journal of Biological Macromolecules, 2017, 104, 650-655.	3.6	22
101	Co-operative thermal inactivation of herpes simplex virus and influenza virus by arginine and NaCl. International Journal of Pharmaceutics, 2009, 366, 99-102.	2.6	21
102	Halophilic Î²-lactamase as a new solubility- and folding-enhancing tag protein: production of native human interleukin 1Î± and human neutrophil Î±-defensin. Applied Microbiology and Biotechnology, 2010, 86, 649-658.	1.7	21
103	Polyethylene glycol behaves like weak organic solvent. Biopolymers, 2012, 97, 117-122.	1.2	21
104	Immobilized metal affinity chromatography in the presence of arginine. Biochemical and Biophysical Research Communications, 2009, 381, 306-310.	1.0	20
105	Dependence of ethanol effects on protein charges. International Journal of Biological Macromolecules, 2014, 68, 169-172.	3.6	20
106	Characterization of Arginine as a Solvent Additive: A Halophilic Enzyme Model Protein. Protein and Peptide Letters, 2005, 12, 649-653.	0.4	18
107	A novel â€œreverse screeningâ€•to identify refolding additives for activin-A. Protein Expression and Purification, 2006, 47, 45-51.	0.6	17
108	Secretory production of single-chain antibody (scFv) in Brevibacillus choshinensis using novel fusion partner. Applied Microbiology and Biotechnology, 2013, 97, 8569-8580.	1.7	17

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109	Alternative downstream processes for production of antibodies and antibody fragments. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 2032-2040.	1.1	17
110	Western blotting analysis of proteins separated by agarose native gel electrophoresis. International Journal of Biological Macromolecules, 2021, 166, 1106-1110.	3.6	17
111	Refractive Index of Proteins in Organic Solvents. Analytical Biochemistry, 1999, 271, 119-120.	1.1	16
112	Effects of arginine on multimodal anion exchange chromatography. Protein Expression and Purification, 2015, 116, 105-112.	0.6	16
113	Allantoin and hydantoin as new protein aggregation suppressors. International Journal of Biological Macromolecules, 2018, 114, 497-503.	3.6	16
114	Analysis of proteins by agarose native gel electrophoresis in the presence of solvent additives. International Journal of Biological Macromolecules, 2022, 198, 26-36.	3.6	16
115	Characterization of Keratinocyte Growth Factor Binding to Heparin and Dextran Sulfate. Archives of Biochemistry and Biophysics, 1996, 332, 41-46.	1.4	15
116	Opposing effects of NaCl on reversibility and thermal stability of halophilic Î²-lactamase from a moderate halophile, Chromohalobacter sp. 560. Biophysical Chemistry, 2006, 119, 316-320.	1.5	15
117	Induced binding of proteins by ammonium sulfate in affinity and ion-exchange column chromatography. Journal of Proteomics, 2007, 70, 493-498.	2.4	15
118	Structure-based analysis reveals hydration changes induced by arginine hydrochloride. Biophysical Chemistry, 2008, 137, 105-109.	1.5	15
119	The structure analysis of Humanin analog, AGA-(C8R)HNG17, by circular dichroism and sedimentation equilibrium: Comparison with the parent molecule. International Journal of Biological Macromolecules, 2008, 43, 88-93.	3.6	15
120	Solvent-induced virus inactivation by acidic arginine solution. International Journal of Molecular Medicine, 2010, 25, 433-7.	1.8	15
121	The effects of allantoin, arginine and NaCl on thermal melting and aggregation of ribonuclease, bovine serum albumin and lysozyme. International Journal of Biological Macromolecules, 2018, 107, 1692-1696.	3.6	15
122	Stabilizing and destabilizing effects of arginine on deoxyribonucleic acid. International Journal of Biological Macromolecules, 2010, 46, 217-222.	3.6	14
123	Feasibility of circular dichroism to study protein structure at extreme concentrations. International Journal of Biological Macromolecules, 2019, 132, 1290-1295.	3.6	14
124	Antiviral effect of octyl gallate against influenza and other RNA viruses. International Journal of Molecular Medicine, 2007, 19, 685-8.	1.8	14
125	The stabilization of ?-lactoglobulin by glycine and NaCl. Biopolymers, 1989, 28, 1397-1401.	1.2	13
126	Interactions between NFkappaB and its inhibitor ikappaB: biophysical characterization of a NFkappaB/ikappaB-alpha complex. The Protein Journal, 1998, 17, 757-763.	1.1	13

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127	Utilization of Arg-elution method for FLAG-tag based chromatography. Protein Expression and Purification, 2009, 67, 148-155.	0.6	13
128	Novel strategy with acidic arginine solution for the treatment of influenza A virus infection. Experimental and Therapeutic Medicine, 2010, 1, 251-256.	0.8	13
129	Screening of effective column rinse solvent for Protein-A chromatography. Protein Expression and Purification, 2010, 70, 218-223.	0.6	13
130	Recombinant Therapeutic Protein Vaccines. Protein and Peptide Letters, 2013, 20, 1324-1344.	0.4	13
131	Synergistic virus inactivation effects of arginine. Biotechnology Journal, 2009, 4, 174-178.	1.8	12
132	Halophilic characterization of starch-binding domain from Kocuria varians Î±-amylase. International Journal of Biological Macromolecules, 2012, 50, 95-102.	3.6	12
133	Arginine inactivates human herpesvirus 2 and inhibits genital herpesvirus infection. International Journal of Molecular Medicine, 2012, 30, 1307-1312.	1.8	12
134	Salt-dependent elution of uncharged aromatic solutes in ion-exchange chromatography. Journal of Chromatography A, 2018, 1546, 46-55.	1.8	12
135	Application of native polyacrylamide gel electrophoresis for protein analysis: Bovine serum albumin as a model protein. International Journal of Biological Macromolecules, 2019, 125, 566-571.	3.6	12
136	Optimization and application of silver staining of non-glycosylated and glycosylated proteins and nucleic acids for agarose native gel electrophoresis. International Journal of Biological Macromolecules, 2021, 189, 869-878.	3.6	12
137	Gel-electrophoresis based method for biomolecular interaction. Methods in Cell Biology, 2022, , 67-95.	0.5	12
138	Western blotting of native proteins from agarose gels. BioTechniques, 2022, 72, 207-218.	0.8	11
139	Fractionation of polyclonal antibodies to fragments of a neuroreceptor using three increasingly chaotropic solvents. Biomedical Applications, 1999, 728, 49-57.	1.7	10
140	Structure and solubility of interleukinâ€2 in sodium dodecyl sulfate. International Journal of Peptide and Protein Research, 1994, 43, 583-587.	0.1	10
141	Isoform separation of proteins by mixed-mode chromatography. Protein Expression and Purification, 2015, 116, 144-151.	0.6	10
142	A study of the small-molecule system used to investigate the effect of arginine on antibody elution in hydrophobic charge-induction chromatography. Protein Expression and Purification, 2017, 129, 44-52.	0.6	10
143	Effect of counter ions of arginine as an additive for the solubilization of protein and aromatic compounds. International Journal of Biological Macromolecules, 2016, 91, 471-476.	3.6	9
144	Acetonitrile as solvent for protein interaction analysis. International Journal of Biological Macromolecules, 2018, 114, 728-732.	3.6	9

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145	Excluded Cosolvent in Chromatography. Journal of Pharmaceutical Sciences, 2018, 107, 2297-2305.	1.6	9
146	Arginine as a Synergistic Virucidal Agent. Molecules, 2010, 15, 1408-1424.	1.7	8
147	The biological activity of Humanin analogs correlates with structure stabilities in solution. International Journal of Biological Macromolecules, 2011, 49, 93-97.	3.6	8
148	Halophilic Properties of Metal Binding Protein Characterized by High Histidine Content from Chromohalobacter salexigens DSM3043. Protein Journal, 2012, 31, 175-183.	0.7	8
149	Salting-In Effects offset Mgcl2-Induced Refolding of Nucleoside Diphosphate Kinase. Protein and Peptide Letters, 2003, 10, 575-580.	0.4	8
150	Capto MMC mixed-mode chromatography of murine and rabbit antibodies. Protein Expression and Purification, 2016, 127, 105-110.	0.6	7
151	Hydantoin and Its Derivatives Reduce the Viscosity of Concentrated Antibody Formulations by Inhibiting Associations via Hydrophobic Amino Acid Residues. Industrial & Engineering Chemistry Research, 2019, 58, 16296-16306.	1.8	7
152	Structure Analysis of Activity-dependent Neurotrophic Factor 9 by Circular Dichroism and Sedimentation Equilibrium. Journal of Molecular Neuroscience, 2007, 33, 262-267.	1.1	6
153	Activityâ€dependent neurotrophic factor, ADNF, determines the structure characteristics of Colivelin, a fusion protein of ADNF9 and Humanin analog. Journal of Peptide Science, 2008, 14, 631-636.	0.8	6
154	The Complex Structure Transition of Humanin Peptides by Sodium Dodecylsulfate and Trifluoroethanol. Protein and Peptide Letters, 2008, 15, 510-515.	0.4	6
155	Active Form of Neuroprotective Humanin, HN, and Inactive Analog, S7AHN, are Monomeric and Disordered in Aqueous Phosphate Solution at pH 6.0; No Correlation of Solution Structure with Activity. Protein and Peptide Letters, 2009, 16, 132-137.	0.4	6
156	High solubility supports efficient refolding of thermally unfolded Î²-lactamase. International Journal of Biological Macromolecules, 2010, 47, 706-709.	3.6	6
157	Structure of three Humanin peptides with different activities upon interaction with liposome. International Journal of Biological Macromolecules, 2011, 48, 360-363.	3.6	6
158	A New Method to Characterize Conformation-Specific Antibody by a Combination of Agarose Native Gel Electrophoresis and Contact Blotting. Antibodies, 2022, 11, 36.	1.2	6
159	Analysis of bovine serum albumin unfolding in the absence and presence of ATP by SYPRO Orange staining of agarose native gel electrophoresis. Analytical Biochemistry, 2022, 654, 114817.	1.1	6
160	Modulation of small molecule solubility and protein binding by arginine. Molecular Medicine Reports, 2010, 3, 833-6.	1.1	5
161	Structure changes of natively disordered Humanin in the presence of lipid. International Journal of Biological Macromolecules, 2010, 46, 375-379.	3.6	5
162	Effects of allantoin and dimethyl sulfoxide on the thermal aggregation of lysozyme. International Journal of Biological Macromolecules, 2018, 119, 180-185.	3.6	5

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163	Stress-Free Chromatography: Affinity Chromatography. Current Pharmaceutical Biotechnology, 2009, 10, 456-460.	0.9	5
164	Review on the Application of Mixed-mode Chromatography for Separation of Structure Isoforms. Current Protein and Peptide Science, 2018, 20, 56-60.	0.7	5
165	Nucleoside Diphosphate Kinase from Psychrophilic Pseudoalteromonas sp. AS-131 Isolated from Antarctic Ocean. Protein Journal, 2015, 34, 275-283.	0.7	4
166	Insoluble expression of highly soluble halophilic metal binding protein for metal ion biosorption: Application of aggregation-prone peptide from hen egg white lysozyme. Protein Expression and Purification, 2019, 156, 50-57.	0.6	4
167	The Glucagon-Like Peptide 2 Analog Teduglutide Reversibly Associates to Form Pentamers. Journal of Pharmaceutical Sciences, 2020, 109, 775-784.	1.6	4
168	Technical Capabilities and Limitations of Optical Spectroscopy and Calorimetry Using Water-Miscible Solvents: The Case of Dimethyl Sulfoxide, Acetonitrile, and 1,4-Dioxane. Journal of Pharmaceutical Sciences, 2020, 109, 524-531.	1.6	4
169	Structure Analysis of Proteins and Peptides by Difference Circular Dichroism Spectroscopy. Protein Journal, 2021, 40, 867-875.	0.7	4
170	Antiviral and Virucidal Activities of N-Cocoyl-L-Arginine Ethyl Ester. Advances in Virology, 2011, 2011, 1-6.	0.5	3
171	Refolding Technology for scFv Using a New Detergent, N-Lauroyl-L-glutamate and Arginine. Antibodies, 2012, 1, 215-238.	1.2	3
172	Amyloid fibril formation in vitro from halophilic metal binding protein: Its high solubility and reversibility minimized formation of amorphous protein aggregations. Protein Science, 2013, 22, 1582-1591.	3.1	3
173	Aromatic interaction of hydantoin compounds leads to virucidal activities. Biophysical Chemistry, 2021, 275, 106621.	1.5	3
174	Classification of protein solubilizing solutes by fluorescence assay. International Journal of Biological Macromolecules, 2022, 203, 695-702.	3.6	3
175	Short neuroprotective peptides, ADNF9 and NAP, are structurally disordered and monomeric in PBS. International Journal of Biological Macromolecules, 2009, 45, 8-11.	3.6	2
176	Stress-Free Chromatography: IEC and HIC. Current Pharmaceutical Biotechnology, 2009, 10, 461-463.	0.9	2
177	Inactive C8A-humanin analog is as stable as a potent S14G-humanin analog. Molecular Medicine Reports, 2014, 9, 375-379.	1.1	2
178	Recombinant Production of Native Proteins from Escherichia coli. Pharmaceutical Biotechnology, 2002, 13, 27-60.	0.3	2
179	The effects of N-acetyltryptophan and caprylic acid on protein aggregation. Journal of Biological Macromolecules, 2016, 16, 3-7.	0.2	2
180	Isoform Separation by a Mixed-mode Resin, TOYOPEARL MX-Trp-650M. Current Protein and Peptide Science, 2018, 20, 61-64.	0.7	2

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181	Two Elution Mechanisms of MEP Chromatography. Current Protein and Peptide Science, 2018, 20, 28-33.	0.7	2
182	Protein aggregation suppressor arginine as an effective mouth cleaning agent. International Journal of Biological Macromolecules, 2019, 122, 224-227.	3.6	1
183	A tribute to Dr. Serge N. Timasheff, our mentor. Biophysical Reviews, 2021, 13, 459-484.	1.5	1
184	Insight into the protein salting-in mechanism of arginine, magnesium chloride and ethylene glycol: Solvent interaction with aromatic solutes. International Journal of Biological Macromolecules, 2021, 188, 670-677.	3.6	1
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