

Tsutomu Arakawa

List of Publications by Year in descending order

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188
papers

14,174
citations

26630

56
h-index

20961

115
g-index

194
all docs

194
docs citations

194
times ranked

9308
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of proteins by agarose native gel electrophoresis in the presence of solvent additives. International Journal of Biological Macromolecules, 2022, 198, 26-36.	7.5	16
2	Gel-electrophoresis based method for biomolecular interaction. Methods in Cell Biology, 2022, , 67-95.	1.1	12
3	Classification of protein solubilizing solutes by fluorescence assay. International Journal of Biological Macromolecules, 2022, 203, 695-702.	7.5	3
4	Western blotting of native proteins from agarose gels. BioTechniques, 2022, 72, 207-218.	1.8	11
5	A New Method to Characterize Conformation-Specific Antibody by a Combination of Agarose Native Gel Electrophoresis and Contact Blotting. Antibodies, 2022, 11, 36.	2.5	6
6	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.	2.4	6
7	Western blotting analysis of proteins separated by agarose native gel electrophoresis. International Journal of Biological Macromolecules, 2021, 166, 1106-1110.	7.5	17
8	Structural insights into assembly and function of the RSC chromatin remodeling complex. Nature Structural and Molecular Biology, 2021, 28, 71-80.	8.2	25
9	Analysis of protein denaturation, aggregation and post-translational modification by agarose native gel electrophoresis. International Journal of Biological Macromolecules, 2021, 172, 589-596.	7.5	25
10	A tribute to Dr. Serge N. Timasheff, our mentor. Biophysical Reviews, 2021, 13, 459-484.	3.2	1
11	Aromatic interaction of hydantoin compounds leads to virucidal activities. Biophysical Chemistry, 2021, 275, 106621.	2.8	3
12	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.	7.5	1
13	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.	7.5	12
14	Structure Analysis of Proteins and Peptides by Difference Circular Dichroism Spectroscopy. Protein Journal, 2021, 40, 867-875.	1.6	4
15	The Glucagon-Like Peptide 2 Analog Teduglutide Reversibly Associates to Form Pentamers. Journal of Pharmaceutical Sciences, 2020, 109, 775-784.	3.3	4
16	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.	3.3	4
17	Agarose native gel electrophoresis for characterization of antibodies. International Journal of Biological Macromolecules, 2020, 151, 885-890.	7.5	24
18	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.	3.7	7

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19	Agarose native gel electrophoresis of proteins. International Journal of Biological Macromolecules, 2019, 140, 668-671.	7.5	26
20	Feasibility of circular dichroism to study protein structure at extreme concentrations. International Journal of Biological Macromolecules, 2019, 132, 1290-1295.	7.5	14
21	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.	7.5	12
22	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.	1.3	4
23	Protein aggregation suppressor arginine as an effective mouth cleaning agent. International Journal of Biological Macromolecules, 2019, 122, 224-227.	7.5	1
24	Salt-dependent elution of uncharged aromatic solutes in ion-exchange chromatography. Journal of Chromatography A, 2018, 1546, 46-55.	3.7	12
25	Allantoin and hydantoin as new protein aggregation suppressors. International Journal of Biological Macromolecules, 2018, 114, 497-503.	7.5	16
26	Acetonitrile as solvent for protein interaction analysis. International Journal of Biological Macromolecules, 2018, 114, 728-732.	7.5	9
27	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.	7.5	15
28	Effects of allantoin and dimethyl sulfoxide on the thermal aggregation of lysozyme. International Journal of Biological Macromolecules, 2018, 119, 180-185.	7.5	5
29	Excluded Cosolvent in Chromatography. Journal of Pharmaceutical Sciences, 2018, 107, 2297-2305.	3.3	9
30	Review on the Application of Mixed-mode Chromatography for Separation of Structure Isoforms. Current Protein and Peptide Science, 2018, 20, 56-60.	1.4	5
31	Isoform Separation by a Mixed-mode Resin, TOYOPEARL MX-Trp-650M. Current Protein and Peptide Science, 2018, 20, 61-64.	1.4	2
32	Protein Solvent Interaction: Transition of Protein-solvent Interaction Concept from Basic Research into Solvent Manipulation of Chromatography. Current Protein and Peptide Science, 2018, 20, 34-39.	1.4	1
33	Two Elution Mechanisms of MEP Chromatography. Current Protein and Peptide Science, 2018, 20, 28-33.	1.4	2
34	Thermal aggregation of human immunoglobulin G in arginine solutions: Contrasting effects of stabilizers and destabilizers. International Journal of Biological Macromolecules, 2017, 104, 650-655.	7.5	22
35	Protein aggregation under high concentration/density state during chromatographic and ultrafiltration processes. International Journal of Biological Macromolecules, 2017, 95, 1153-1158.	7.5	25
36	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.	1.3	10

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37	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.	7.5	9
38	Capto MMC mixed-mode chromatography of murine and rabbit antibodies. Protein Expression and Purification, 2016, 127, 105-110.	1.3	7
39	Charge state of arginine as an additive on heat-induced protein aggregation.. International Journal of Biological Macromolecules, 2016, 87, 563-569.	7.5	31
40	The effects of N-acetyltryptophan and caprylic acid on protein aggregation. Journal of Biological Macromolecules, 2016, 16, 3-7.	0.3	2
41	Effects of arginine on multimodal anion exchange chromatography. Protein Expression and Purification, 2015, 116, 105-112.	1.3	16
42	Nucleoside Diphosphate Kinase from Psychrophilic Pseudoalteromonas sp. AS-131 Isolated from Antarctic Ocean. Protein Journal, 2015, 34, 275-283.	1.6	4
43	Isoform separation of proteins by mixed-mode chromatography. Protein Expression and Purification, 2015, 116, 144-151.	1.3	10
44	Inactive C8A-humanin analog is as stable as a potent S14G-humanin analog. Molecular Medicine Reports, 2014, 9, 375-379.	2.4	2
45	Mechanism of protein desorption from 4-mercaptoethylpyridine resins by arginine solutions. Journal of Chromatography A, 2014, 1373, 141-148.	3.7	23
46	Arginine and lysine reduce the high viscosity of serum albumin solutions for pharmaceutical injection. Journal of Bioscience and Bioengineering, 2014, 117, 539-543.	2.2	61
47	Specific Decrease in Solution Viscosity of Antibodies by Arginine for Therapeutic Formulations. Molecular Pharmaceutics, 2014, 11, 1889-1896.	4.6	95
48	Interaction of arginine with Capto MMC in multimodal chromatography. Journal of Chromatography A, 2014, 1338, 58-66.	3.7	36
49	Alternative downstream processes for production of antibodies and antibody fragments. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 2032-2040.	2.3	17
50	Dependence of ethanol effects on protein charges. International Journal of Biological Macromolecules, 2014, 68, 169-172.	7.5	20
51	Multi-Faceted Arginine: Mechanism of the Effects of Arginine on Protein. Current Protein and Peptide Science, 2014, 15, 608-620.	1.4	33
52	Secretory production of single-chain antibody (scFv) in Brevibacillus choshinensis using novel fusion partner. Applied Microbiology and Biotechnology, 2013, 97, 8569-8580.	3.6	17
53	Amyloid fibril formation <i>in vitro</i> from halophilic metal binding protein: Its high solubility and reversibility minimized formation of amorphous protein aggregations. Protein Science, 2013, 22, 1582-1591.	7.6	3
54	Synergistic solubilization of porcine myosin in physiological salt solution by arginine. International Journal of Biological Macromolecules, 2013, 62, 647-651.	7.5	78

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55	Molecular Dynamics Simulation of the Arginine-Assisted Solubilization of Caffeic Acid: Intervention in the Interaction. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7518-7527.	2.6	35
56	Arginine Inhibits Adsorption of Proteins on Polystyrene Surface. <i>PLoS ONE</i> , 2013, 8, e70762.	2.5	28
57	Recombinant Therapeutic Protein Vaccines. <i>Protein and Peptide Letters</i> , 2013, 20, 1324-1344.	0.9	13
58	VIRUCIDAL ABILITY OF ARGININE AND ITS POSSIBLE APPLICATION AS AN ANTIHERPETIC AGENT. , 2012, , 435-449.		0
59	Halophilic characterization of starch-binding domain from <i>Kocuria varians</i> α -amylase. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 95-102.	7.5	12
60	Mechanistic insights into protein precipitation by alcohol. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 865-871.	7.5	84
61	Refolding Technology for scFv Using a New Detergent, N-Lauroyl-L-glutamate and Arginine. <i>Antibodies</i> , 2012, 1, 215-238.	2.5	3
62	Arginine inactivates human herpesvirus 2 and inhibits genital herpesvirus infection. <i>International Journal of Molecular Medicine</i> , 2012, 30, 1307-1312.	4.0	12
63	Polyethylene glycol behaves like weak organic solvent. <i>Biopolymers</i> , 2012, 97, 117-122.	2.4	21
64	Halophilic Properties of Metal Binding Protein Characterized by High Histidine Content from <i>Chromohalobacter salexigens</i> DSM3043. <i>Protein Journal</i> , 2012, 31, 175-183.	1.6	8
65	Structure of three Humanin peptides with different activities upon interaction with liposome. <i>International Journal of Biological Macromolecules</i> , 2011, 48, 360-363.	7.5	6
66	The biological activity of Humanin analogs correlates with structure stabilities in solution. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 93-97.	7.5	8
67	A novel protein refolding system using lauroyl-l-glutamate as a solubilizing detergent and arginine as a folding assisting agent. <i>Protein Expression and Purification</i> , 2011, 75, 46-54.	1.3	30
68	Refolding single-chain antibody (scFv) using lauroyl-l-glutamate as a solubilization detergent and arginine as a refolding additive. <i>Protein Expression and Purification</i> , 2011, 77, 68-74.	1.3	38
69	Interactions of formulation excipients with proteins in solution and in the dried state. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 1053-1073.	13.7	307
70	Arginine increases the solubility of alkyl gallates through interaction with the aromatic ring. <i>Journal of Biochemistry</i> , 2011, 149, 389-394.	1.7	36
71	Antiviral and Virucidal Activities of N-Cocoyl-L-Arginine Ethyl Ester. <i>Advances in Virology</i> , 2011, 2011, 1-6.	1.1	3
72	Chemical and Pharmacological Chaperones: Application for Recombinant Protein Production and Protein Folding Diseases. <i>Current Medicinal Chemistry</i> , 2011, 18, 1-15.	2.4	70

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73	Solvent-induced virus inactivation by acidic arginine solution. International Journal of Molecular Medicine, 2010, 25, 433-7.	4.0	15
74	Novel strategy with acidic arginine solution for the treatment of influenza A virus infection. Experimental and Therapeutic Medicine, 2010, 1, 251-256.	1.8	13
75	Halophilic β -lactamase as a new solubility- and folding-enhancing tag protein: production of native human interleukin 1 β and human neutrophil α -defensin. Applied Microbiology and Biotechnology, 2010, 86, 649-658.	3.6	21
76	The critical role of mobile phase composition in size exclusion chromatography of protein pharmaceuticals. Journal of Pharmaceutical Sciences, 2010, 99, 1674-1692.	3.3	188
77	Modulation of small molecule solubility and protein binding by arginine. Molecular Medicine Reports, 2010, 3, 833-6.	2.4	5
78	Non-Denaturing Solubilization of Inclusion Bodies. Current Pharmaceutical Biotechnology, 2010, 11, 309-312.	1.6	27
79	Arginine-Assisted Solubilization System for Drug Substances: Solubility Experiment and Simulation. Journal of Physical Chemistry B, 2010, 114, 13455-13462.	2.6	82
80	Arginine as a Synergistic Virucidal Agent. Molecules, 2010, 15, 1408-1424.	3.8	8
81	Stabilizing and destabilizing effects of arginine on deoxyribonucleic acid. International Journal of Biological Macromolecules, 2010, 46, 217-222.	7.5	14
82	Structure changes of natively disordered Humanin in the presence of lipid. International Journal of Biological Macromolecules, 2010, 46, 375-379.	7.5	5
83	High solubility supports efficient refolding of thermally unfolded β -lactamase. International Journal of Biological Macromolecules, 2010, 47, 706-709.	7.5	6
84	Screening of effective column rinse solvent for Protein-A chromatography. Protein Expression and Purification, 2010, 70, 218-223.	1.3	13
85	MEP HyperCel chromatography II: Binding, washing and elution. Protein Expression and Purification, 2010, 71, 168-173.	1.3	46
86	The solubility of nucleobases in aqueous arginine solutions. Archives of Biochemistry and Biophysics, 2010, 497, 90-96.	3.0	27
87	Antiviral effect of arginine against herpes simplex virus type 1. International Journal of Molecular Medicine, 2009, 23, 495-9.	4.0	24
88	Antiviral and Virucidal Activities of Natural Products. Current Medicinal Chemistry, 2009, 16, 2485-2497.	2.4	40
89	Co-operative thermal inactivation of herpes simplex virus and influenza virus by arginine and NaCl. International Journal of Pharmaceutics, 2009, 366, 99-102.	5.2	21
90	Synergistic virus inactivation effects of arginine. Biotechnology Journal, 2009, 4, 174-178.	3.5	12

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91	Immobilized metal affinity chromatography in the presence of arginine. Biochemical and Biophysical Research Communications, 2009, 381, 306-310.	2.1	20
92	MEP chromatography of antibody and Fc-fusion protein using aqueous arginine solution. Protein Expression and Purification, 2009, 63, 158-163.	1.3	63
93	Utilization of Arg-elution method for FLAG-tag based chromatography. Protein Expression and Purification, 2009, 67, 148-155.	1.3	13
94	Short neuroprotective peptides, ADNF9 and NAP, are structurally disordered and monomeric in PBS. International Journal of Biological Macromolecules, 2009, 45, 8-11.	7.5	2
95	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.	0.9	6
96	Stress-Free Chromatography: IEC and HIC. Current Pharmaceutical Biotechnology, 2009, 10, 461-463.	1.6	2
97	Mechanisms of Protein Aggregation. Current Pharmaceutical Biotechnology, 2009, 10, 348-351.	1.6	246
98	Effect of Additives on Protein Aggregation. Current Pharmaceutical Biotechnology, 2009, 10, 400-407.	1.6	211
99	Stress-Free Chromatography: Affinity Chromatography. Current Pharmaceutical Biotechnology, 2009, 10, 456-460.	1.6	5
100	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.	1.4	6
101	Arginine Facilitates Inactivation of Enveloped Viruses. Journal of Pharmaceutical Sciences, 2008, 97, 3067-3073.	3.3	36
102	Structure-based analysis reveals hydration changes induced by arginine hydrochloride. Biophysical Chemistry, 2008, 137, 105-109.	2.8	15
103	Solubility enhancement of gluten and organic compounds by arginine. International Journal of Pharmaceutics, 2008, 355, 220-223.	5.2	51
104	Butyryl-arginine as a potent virus inactivation agent. International Journal of Pharmaceutics, 2008, 361, 92-98.	5.2	23
105	Arginine Increases the Solubility of Coumarin: Comparison with Salting-in and Salting-out Additives. Journal of Biochemistry, 2008, 144, 363-369.	1.7	68
106	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.	7.5	15
107	The Complex Structure Transition of Humanin Peptides by Sodium Dodecylsulfate and Trifluoroethanol. Protein and Peptide Letters, 2008, 15, 510-515.	0.9	6
108	Solvent Modulation of Column Chromatography. Protein and Peptide Letters, 2008, 15, 544-555.	0.9	34

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109	Improved performance of column chromatography by arginine: Dye-affinity chromatography. Protein Expression and Purification, 2007, 52, 410-414.	1.3	43
110	The effects of arginine on protein binding and elution in hydrophobic interaction and ion-exchange chromatography. Protein Expression and Purification, 2007, 54, 110-116.	1.3	94
111	Effects of salts on proteinâ€™surface interactions: applications for column chromatography. Journal of Pharmaceutical Sciences, 2007, 96, 1677-1690.	3.3	95
112	Suppression of protein interactions by arginine: A proposed mechanism of the arginine effects. Biophysical Chemistry, 2007, 127, 1-8.	2.8	439
113	Protein precipitation and denaturation by dimethyl sulfoxide. Biophysical Chemistry, 2007, 131, 62-70.	2.8	260
114	Arginine improves protein elution in hydrophobic interaction chromatography. Journal of Chromatography A, 2007, 1154, 81-86.	3.7	49
115	Induced binding of proteins by ammonium sulfate in affinity and ion-exchange column chromatography. Journal of Proteomics, 2007, 70, 493-498.	2.4	15
116	Structure Analysis of Activity-dependent Neurotrophic Factor 9 by Circular Dichroism and Sedimentation Equilibrium. Journal of Molecular Neuroscience, 2007, 33, 262-267.	2.3	6
117	Antiviral effect of octyl gallate against influenza and other RNA viruses. International Journal of Molecular Medicine, 2007, 19, 685-8.	4.0	14
118	A novel â€™reverse screeningâ€™ to identify refolding additives for activin-A. Protein Expression and Purification, 2006, 47, 45-51.	1.3	17
119	Effects of acid exposure on the conformation, stability, and aggregation of monoclonal antibodies. Proteins: Structure, Function and Bioinformatics, 2006, 66, 954-962.	2.6	176
120	The secondary structure analysis of a potent Ser14Gly analog of antiAlzheimer peptide, Humanin, by circular dichroism. Journal of Peptide Science, 2006, 12, 639-642.	1.4	24
121	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.	2.8	15
122	Small molecule pharmacological chaperones: From thermodynamic stabilization to pharmaceutical drugs. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1677-1687.	2.3	129
123	Aggregation Suppression of Proteins by Arginine During Thermal Unfolding. Protein and Peptide Letters, 2006, 13, 921-927.	0.9	58
124	Effective elution of antibodies by arginine and arginine derivatives in affinity column chromatography. Analytical Biochemistry, 2005, 345, 250-257.	2.4	116
125	Arginine as an effective additive in gel permeation chromatography. Journal of Chromatography A, 2005, 1094, 49-55.	3.7	138
126	Review: Why is Arginine Effective in Suppressing Aggregation?. Protein and Peptide Letters, 2005, 12, 613-619.	0.9	95

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127	Characterization of Arginine as a Solvent Additive: A Halophilic Enzyme Model Protein. Protein and Peptide Letters, 2005, 12, 649-653.	0.9	18
128	Nondenaturing solubilization of β_2 microglobulin from inclusion bodies by L-arginine. Biochemical and Biophysical Research Communications, 2005, 328, 189-197.	2.1	60
129	Is arginine a protein-denaturant?. Protein Expression and Purification, 2005, 42, 1-6.	1.3	103
130	Role of Arginine in Protein Refolding, Solubilization, and Purification. Biotechnology Progress, 2004, 20, 1301-1308.	2.6	378
131	The Effects of Protein Stabilizers on Aggregation Induced by Multiple-Stresses. ChemInform, 2004, 35, no.	0.0	0
132	Elution of antibodies from a Protein-A column by aqueous arginine solutions. Protein Expression and Purification, 2004, 36, 244-244.	1.3	0
133	Elution of antibodies from a Protein-A column by aqueous arginine solutions. Protein Expression and Purification, 2004, 36, 244-248.	1.3	181
134	Highly efficient renaturation of β -lactamase isolated from moderately halophilic bacteria. FEBS Letters, 2004, 558, 7-12.	2.8	45
135	Activation of halophilic nucleoside diphosphate kinase by a non-ionic osmolyte, trimethylamine N-oxide. The Protein Journal, 2003, 22, 345-351.	1.1	25
136	Solubilization of active green fluorescent protein from insoluble particles by guanidine and arginine. Biochemical and Biophysical Research Communications, 2003, 312, 1383-1386.	2.1	134
137	The effects of arginine on refolding of aggregated proteins: not facilitate refolding, but suppress aggregation. Biochemical and Biophysical Research Communications, 2003, 304, 148-152.	2.1	324
138	Practical considerations in refolding proteins from inclusion bodies. Protein Expression and Purification, 2003, 28, 1-8.	1.3	366
139	Salting-In Effects offset Mgcl ₂ -Induced Refolding of Nucleoside Diphosphate Kinase. Protein and Peptide Letters, 2003, 10, 575-580.	0.9	8
140	Recombinant Production of Native Proteins from Escherichia coli. Pharmaceutical Biotechnology, 2002, 13, 27-60.	0.3	2
141	Kinetic and Thermodynamic Analysis of Thermal Unfolding of Recombinant Erythropoietin. Bioscience, Biotechnology and Biochemistry, 2001, 65, 1321-1327.	1.3	31
142	Determination of Carbohydrate Contents from Excess Light Scattering. Analytical Biochemistry, 2001, 299, 158-161.	2.4	24
143	Factors affecting short-term and long-term stabilities of proteins. Advanced Drug Delivery Reviews, 2001, 46, 307-326.	13.7	428
144	Protection of Bovine Serum Albumin from Aggregation by Tween 80. Journal of Pharmaceutical Sciences, 2000, 89, 646-651.	3.3	83

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145	Refractive Index of Proteins in Aqueous Sodium Chloride. <i>Analytical Biochemistry</i> , 2000, 280, 327-329.	2.4	38
146	Stabilizing effects of caprylate and acetyltryptophanate on heat-induced aggregation of bovine serum albumin. <i>BBA - Proteins and Proteomics</i> , 2000, 1479, 32-36.	2.1	44
147	Protection of bovine serum albumin from aggregation by Tween 80. <i>Journal of Pharmaceutical Sciences</i> , 2000, 89, 646.	3.3	58
148	Fractionation of polyclonal antibodies to fragments of a neuroreceptor using three increasingly chaotropic solvents. <i>Biomedical Applications</i> , 1999, 728, 49-57.	1.7	10
149	Reversibility of heat-induced denaturation of the recombinant human megakaryocyte growth and development factor. <i>Pharmaceutical Research</i> , 1999, 16, 799-807.	3.5	36
150	Refractive Index of Proteins in Organic Solvents. <i>Analytical Biochemistry</i> , 1999, 271, 119-120.	2.4	16
151	Interactions between NFkappaB and its inhibitor ikappaB: biophysical characterization of a NFkappaB/ikappaB-alpha complex. <i>The Protein Journal</i> , 1998, 17, 757-763.	1.1	13
152	FGF-18, a Novel Member of the Fibroblast Growth Factor Family, Stimulates Hepatic and Intestinal Proliferation. <i>Molecular and Cellular Biology</i> , 1998, 18, 6063-6074.	2.3	128
153	Effect of Three Elution Buffers on the Recovery and Structure of Monoclonal Antibodies. <i>Analytical Biochemistry</i> , 1997, 253, 236-245.	2.4	40
154	Fractionation and Characterization of Polyclonal Antibodies Using Three Progressively More Chaotropic Solvents. <i>Analytical Biochemistry</i> , 1997, 253, 246-252.	2.4	28
155	Disulfide Structure and N-Glycosylation Sites of an Extracellular Domain of Granulocyte-Colony Stimulating Factor Receptor. <i>Biochemistry</i> , 1996, 35, 13040-13046.	2.5	26
156	Dimerization of the Extracellular Domain of the Erythropoietin (EPO) Receptor by EPO: One High-Affinity and One Low-Affinity Interaction. <i>Biochemistry</i> , 1996, 35, 1681-1691.	2.5	200
157	Characterization of Keratinocyte Growth Factor Binding to Heparin and Dextran Sulfate. <i>Archives of Biochemistry and Biophysics</i> , 1996, 332, 41-46.	3.0	15
158	Dimerization of the Extracellular Domain of Granulocyte-Colony Stimulating Factor Receptor by Ligand Binding: A Monovalent Ligand Induces 2:2 Complexes. <i>Biochemistry</i> , 1996, 35, 4886-4896.	2.5	74
159	The effect of the reconstitution medium on aggregation of lyophilized recombinant interleukin-2 and ribonuclease A. <i>Pharmaceutical Research</i> , 1996, 13, 643-646.	3.5	49
160	Size-Exclusion Chromatography with On-Line Light-Scattering, Absorbance, and Refractive Index Detectors for Studying Proteins and Their Interactions. <i>Analytical Biochemistry</i> , 1996, 240, 155-166.	2.4	487
161	Stabilization of Recombinant Human Keratinocyte Growth Factor by Osmolytes and Salts. <i>Journal of Pharmaceutical Sciences</i> , 1996, 85, 419-422.	3.3	60
162	Stability of Recombinant Consensus Interferon to Air Jet and Ultrasonic Nebulization. <i>Journal of Pharmaceutical Sciences</i> , 1995, 84, 1210-1214.	3.3	43

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163	A new strategy for enhancing the stability of lyophilized protein: the effect of the reconstitution medium on keratinocyte growth factor. <i>Pharmaceutical Research</i> , 1995, 12, 1447-1452.	3.5	58
164	Optimization of lyophilization conditions for recombinant human interleukin-2 by dried-state conformational analysis using Fourier-transform infrared spectroscopy. <i>Pharmaceutical Research</i> , 1995, 12, 1250-1259.	3.5	138
165	Strategies To Suppress Aggregation of Recombinant Keratinocyte Growth Factor during Liquid Formulation Development. <i>Journal of Pharmaceutical Sciences</i> , 1994, 83, 1657-1661.	3.3	76
166	Aggregation pathway of recombinant human keratinocyte growth factor and its stabilization. <i>Pharmaceutical Research</i> , 1994, 11, 1581-1587.	3.5	64
167	Contribution of the Surface Free Energy Perturbation to Protein-Solvent Interactions. <i>Biochemistry</i> , 1994, 33, 15178-15189.	2.5	280
168	Structure and solubility of interleukin-2 in sodium dodecyl sulfate. <i>International Journal of Peptide and Protein Research</i> , 1994, 43, 583-587.	0.1	10
169	Factors affecting short-term and long-term stabilities of proteins. <i>Advanced Drug Delivery Reviews</i> , 1993, 10, 1-28.	13.7	186
170	Molecular weights of glycosylated and nonglycosylated forms of recombinant human stem cell factor determined by low-angle laser light scattering. <i>Analytical Biochemistry</i> , 1992, 203, 53-57.	2.4	37
171	Protein-solvent interactions in pharmaceutical formulations. <i>Pharmaceutical Research</i> , 1991, 08, 285-291.	3.5	190
172	Why preferential hydration does not always stabilize the native structure of globular proteins. <i>Biochemistry</i> , 1990, 29, 1924-1931.	2.5	238
173	Comparison of Solute-Induced Protein Stabilization in Aqueous Solution and in the Frozen and Dried States. <i>Journal of Dairy Science</i> , 1990, 73, 3627-3636.	3.4	113
174	Preferential interactions determine protein solubility in three-component solutions: the magnesium chloride system. <i>Biochemistry</i> , 1990, 29, 1914-1923.	2.5	231
175	The basis for toxicity of certain cryoprotectants: A hypothesis. <i>Cryobiology</i> , 1990, 27, 401-415.	0.7	244
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