

Kentaro Shiraki

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177
papers

3,981
citations

33
h-index

55
g-index

188
ext. papers

4,463
ext. citations

4.4
avg, IF

5.59
L-index

#	Paper	IF	Citations
177	Trifluoroethanol-induced stabilization of the alpha-helical structure of beta-lactoglobulin: implication for non-hierarchical protein folding. <i>Journal of Molecular Biology</i> , 1995 , 245, 180-94	6.5	418
176	Biophysical effect of amino acids on the prevention of protein aggregation. <i>Journal of Biochemistry</i> , 2002 , 132, 591-5	3.1	205
175	Effect of additives on protein aggregation. <i>Current Pharmaceutical Biotechnology</i> , 2009 , 10, 400-7	2.6	174
174	Chemical modification of amino acids by atmospheric-pressure cold plasma in aqueous solution. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 285403	3	153
173	Protein Inactivation by Low-temperature Atmospheric Pressure Plasma in Aqueous Solution. <i>Plasma Processes and Polymers</i> , 2012 , 9, 77-82	3.4	117
172	Prevention of thermal inactivation and aggregation of lysozyme by polyamines. <i>FEBS Journal</i> , 2003 , 270, 4547-54		103
171	Specific decrease in solution viscosity of antibodies by arginine for therapeutic formulations. <i>Molecular Pharmaceutics</i> , 2014 , 11, 1889-96	5.6	78
170	Discovery of posttranslational maturation by self-subunit swapping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 14849-54	11.5	72
169	Arginine-assisted solubilization system for drug substances: solubility experiment and simulation. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 13455-62	3.4	69
168	High-resolution X-ray analysis reveals binding of arginine to aromatic residues of lysozyme surface: implication of suppression of protein aggregation by arginine. <i>Protein Engineering, Design and Selection</i> , 2011 , 24, 269-74	1.9	65
167	Arginine ethylester prevents thermal inactivation and aggregation of lysozyme. <i>FEBS Journal</i> , 2004 , 271, 3242-7		64
166	Mechanistic insights into protein precipitation by alcohol. <i>International Journal of Biological Macromolecules</i> , 2012 , 50, 865-71	7.9	62
165	Arginine increases the solubility of coumarin: comparison with salting-in and salting-out additives. <i>Journal of Biochemistry</i> , 2008 , 144, 363-9	3.1	59
164	Characterization of phytochelatin synthase-like protein encoded by alr0975 from a prokaryote, <i>Nostoc</i> sp. PCC 7120. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 315, 751-5	3.4	58
163	Regulation of lysozyme activity based on thermotolerant protein/smart polymer complex formation. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6549-53	16.4	54
162	Synergistic solubilization of porcine myosin in physiological salt solution by arginine. <i>International Journal of Biological Macromolecules</i> , 2013 , 62, 647-51	7.9	53
161	L-argininamide improves the refolding more effectively than L-arginine. <i>Journal of Biotechnology</i> , 2007 , 130, 153-60	3.7	52

160	Arginine and lysine reduce the high viscosity of serum albumin solutions for pharmaceutical injection. <i>Journal of Bioscience and Bioengineering</i> , 2014 , 117, 539-43	3.3	46
159	Viscosity Control of Protein Solution by Small Solutes: A Review. <i>Current Protein and Peptide Science</i> , 2018 , 19, 746-758	2.8	44
158	Molecular mechanism of plasma sterilization in solution with the reduced pH method: importance of permeation of HOO radicals into the cell membrane. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 295402	3.0	43
157	Indispensable structure of solution additives to prevent inactivation of lysozyme for heating and refolding. <i>Biotechnology Progress</i> , 2009 , 25, 1515-24	2.8	43
156	Effects of alcohol on the solubility and structure of native and disulfide-modified bovine serum albumin. <i>International Journal of Biological Macromolecules</i> , 2012 , 50, 1286-91	7.9	38
155	Extraction and purification of human interleukin-10 from transgenic rice seeds. <i>Protein Expression and Purification</i> , 2010 , 72, 125-30	2	38
154	Amidated amino acids are prominent additives for preventing heat-induced aggregation of lysozyme. <i>Journal of Bioscience and Bioengineering</i> , 2007 , 103, 440-3	3.3	37
153	Heat-induced formation of myosin oligomer-soluble filament complex in high-salt solution. <i>International Journal of Biological Macromolecules</i> , 2015 , 73, 17-22	7.9	36
152	Enzyme hyperactivation system based on a complementary charged pair of polyelectrolytes and substrates. <i>Langmuir</i> , 2014 , 30, 3826-31	4	36
151	Improved complementary polymer pair system: switching for enzyme activity by PEGylated polymers. <i>Langmuir</i> , 2012 , 28, 4334-8	4	36
150	Diamines prevent thermal aggregation and inactivation of lysozyme. <i>Journal of Bioscience and Bioengineering</i> , 2005 , 100, 556-61	3.3	36
149	Arginine controls heat-induced cluster-cluster aggregation of lysozyme at around the isoelectric point. <i>Biopolymers</i> , 2011 , 95, 695-701	2.2	35
148	Amino Acid esters prevent thermal inactivation and aggregation of lysozyme. <i>Biotechnology Progress</i> , 2005 , 21, 640-3	2.8	35
147	Correlation between thermal aggregation and stability of lysozyme with salts described by molar surface tension increment: an exceptional propensity of ammonium salts as aggregation suppressor. <i>Protein Journal</i> , 2007 , 26, 423-33	3.9	35
146	Comparative analysis of the two-step reaction catalyzed by prokaryotic and eukaryotic phytochelatin synthase by an ion-pair liquid chromatography assay. <i>Planta</i> , 2005 , 222, 181-91	4.7	35
145	One-dimensional protein-based nanoparticles induce lipid bilayer disruption: carbon nanotube conjugates and amyloid fibrils. <i>Langmuir</i> , 2010 , 26, 17256-9	4	34
144	Co-aggregation of ovalbumin and lysozyme. <i>Food Hydrocolloids</i> , 2017 , 67, 206-215	10.6	33
143	Arginine increases the solubility of alkyl gallates through interaction with the aromatic ring. <i>Journal of Biochemistry</i> , 2011 , 149, 389-94	3.1	33

142	Differences in the effects of solution additives on heat- and refolding-induced aggregation. <i>Biotechnology Progress</i> , 2008 , 24, 436-43	2.8	33
141	Comparative analyses of the conformational stability of a hyperthermophilic protein and its mesophilic counterpart. <i>FEBS Journal</i> , 2001 , 268, 4144-50		33
140	Molecular dynamics simulation of the arginine-assisted solubilization of caffeic acid: intervention in the interaction. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 7518-27	3.4	31
139	Chelation of cadmium ions by phytochelatin synthase: role of the cysteine-rich C-terminal. <i>Analytical Sciences</i> , 2008 , 24, 277-81	1.7	31
138	Systematic analysis of aggregates from 38 kinds of non disease-related proteins: identifying the intrinsic propensity of polypeptides to form amyloid fibrils. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007 , 71, 1313-21	2.1	31
137	Noncovalent PEGylation of L-asparaginase using PEGylated polyelectrolyte. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 587-92	3.9	30
136	Effects of alkyl chain length of gallate on self-association and membrane binding. <i>Journal of Biochemistry</i> , 2011 , 150, 165-71	3.1	29
135	Adsorption and disruption of lipid bilayers by nanoscale protein aggregates. <i>Langmuir</i> , 2012 , 28, 3887-95		26
134	Small Amine Molecules: Solvent Design Toward Facile Improvement of Protein Stability Against Aggregation and Inactivation. <i>Current Pharmaceutical Biotechnology</i> , 2015 , 17, 116-25	2.6	25
133	Thermal aggregation of hen egg white proteins in the presence of salts. <i>Protein Journal</i> , 2015 , 34, 212-9	3.9	24
132	Salt effects on the picosecond dynamics of lysozyme hydration water investigated by terahertz time-domain spectroscopy and an insight into the Hofmeister series for protein stability and solubility. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15060-9	3.6	24
131	Ultrafast vibrational motion of carbon nanotubes in different pH environments. <i>Physical Review B</i> , 2009 , 80,	3.3	24
130	Arginine inhibits adsorption of proteins on polystyrene surface. <i>PLoS ONE</i> , 2013 , 8, e70762	3.7	23
129	Enzyme switch by complementary polymer pair system (CPPS). <i>Soft Matter</i> , 2010 , 6, 5320	3.6	23
128	Dissolution of protein aggregation by small amine compounds. <i>Science and Technology of Advanced Materials</i> , 2003 , 4, 55-59	7.1	23
127	Charge state of arginine as an additive on heat-induced protein aggregation. <i>International Journal of Biological Macromolecules</i> , 2016 , 87, 563-9	7.9	22
126	The solubility of nucleobases in aqueous arginine solutions. <i>Archives of Biochemistry and Biophysics</i> , 2010 , 497, 90-6	4.1	22
125	Screening for stable mutants with amino acid pairs substituted for the disulfide bond between residues 14 and 38 of bovine pancreatic trypsin inhibitor (BPTI). <i>Journal of Biological Chemistry</i> , 2002 , 277, 51043-8	5.4	22

124	Protein-poly(amino acid) complex precipitation for high-concentration protein formulation. <i>Journal of Pharmaceutical Sciences</i> , 2014 , 103, 2248-54	3.9	21
123	Aggregative protein-polyelectrolyte complex for high-concentration formulation of protein drugs. <i>International Journal of Biological Macromolecules</i> , 2017 , 100, 11-17	7.9	20
122	Arginine prevents thermal aggregation of hen egg white proteins. <i>Food Research International</i> , 2017 , 97, 272-279	7	20
121	Mechanism of co-aggregation in a protein mixture with small additives. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 1428-1437	7.9	20
120	Mechanism of protein desorption from 4-mercaptoethylpyridine resins by arginine solutions. <i>Journal of Chromatography A</i> , 2014 , 1373, 141-8	4.5	20
119	Poly(acrylic acid) is a common noncompetitive inhibitor for cationic enzymes with high affinity and reversibility. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 3835-3841	2.5	20
118	Coacervates and coaggregates: Liquid-liquid and liquid-solid phase transitions by native and unfolded protein complexes. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 10-18	7.9	18
117	Polyethylene glycol behaves like weak organic solvent. <i>Biopolymers</i> , 2012 , 97, 117-22	2.2	18
116	Enzymatic fingerprinting of structurally similar homologous proteins using polyion complex library constructed by tuning PEGylated polyamine functionalities. <i>Analyst, The</i> , 2014 , 139, 6100-3	5	17
115	High temperature increases the refolding yield of reduced lysozyme: implication for the productive process for folding. <i>Biotechnology Progress</i> , 2004 , 20, 1128-33	2.8	17
114	Effects of multivalency and hydrophobicity of polyamines on enzyme hyperactivation of Chymotrypsin. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 115, 135-139		16
113	Electrostatic role of aromatic ring stacking in the pH-sensitive modulation of a chymotrypsin-type serine protease, <i>Achromobacter protease I</i> . <i>FEBS Journal</i> , 2002 , 269, 4152-8		16
112	Co-aggregation of ovotransferrin and lysozyme. <i>Food Hydrocolloids</i> , 2019 , 89, 416-424	10.6	16
111	1,6-hexanediol rapidly immobilizes and condenses chromatin in living human cells. <i>Life Science Alliance</i> , 2021 , 4,	5.8	16
110	Protein-poly(amino acid) precipitation stabilizes a therapeutic protein l-asparaginase against physicochemical stress. <i>Journal of Bioscience and Bioengineering</i> , 2015 , 120, 720-4	3.3	15
109	Thermal aggregation of human immunoglobulin G in arginine solutions: Contrasting effects of stabilizers and destabilizers. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 650-655	7.9	15
108	Relationship between heat-induced fibrillogenicity and hemolytic activity of thermostable direct hemolysin and a related hemolysin of <i>Vibrio parahaemolyticus</i> . <i>FEMS Microbiology Letters</i> , 2011 , 318, 10-7	2.9	15
107	Synergistically enhanced dispersion of native protein-carbon nanotube conjugates by fluoroalcohols in aqueous solution. <i>Chemistry - A European Journal</i> , 2009 , 15, 9905-10	4.8	15

106	A second lysine-specific serine protease from <i>Lysobacter</i> sp. strain IB-9374. <i>Journal of Bacteriology</i> , 2004 , 186, 5093-100	3.5	15
105	Functional analysis of phytochelatin synthase from <i>Arabidopsis thaliana</i> and its expression in <i>Escherichia coli</i> and <i>Saccharomyces cerevisiae</i> . <i>Science and Technology of Advanced Materials</i> , 2004 , 5, 377-381	7.1	15
104	In vitro heat effect on functional and conformational changes of cyclodextrin glucanotransferase from hyperthermophilic archaea. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 265, 57-61	3.4	15
103	Liquid Droplet of Protein-Polyelectrolyte Complex for High-Concentration Formulations. <i>Journal of Pharmaceutical Sciences</i> , 2018 , 107, 2713-2719	3.9	14
102	Dependence of ethanol effects on protein charges. <i>International Journal of Biological Macromolecules</i> , 2014 , 68, 169-72	7.9	14
101	One-Step Identification of Antibody Degradation Pathways Using Fluorescence Signatures Generated by Cross-Reactive DNA-Based Arrays. <i>Analytical Chemistry</i> , 2017 , 89, 7818-7822	7.8	14
100	Glycine amide shielding on the aromatic surfaces of lysozyme: implication for suppression of protein aggregation. <i>FEBS Letters</i> , 2011 , 585, 555-60	3.8	14
99	Controlled dispersion and purification of protein-carbon nanotube conjugates using guanidine hydrochloride. <i>Chemistry - A European Journal</i> , 2010 , 16, 12221-8	4.8	14
98	Trans-cyclohexanediamines prevent thermal inactivation of protein: role of hydrophobic and electrostatic interactions. <i>Protein Journal</i> , 2008 , 27, 253-7	3.9	14
97	Cysteine inhibits amyloid fibrillation of lysozyme and directs the formation of small worm-like aggregates through non-covalent interactions. <i>Biotechnology Progress</i> , 2014 , 30, 470-8	2.8	13
96	Degeneration of amyloid-fibrils caused by exposure to low-temperature atmospheric-pressure plasma in aqueous solution. <i>Applied Physics Letters</i> , 2014 , 104, 023701	3.4	13
95	Noncovalent PEGylation through Protein-Polyelectrolyte Interaction: Kinetic Experiment and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 6785-6791	3.4	13
94	Stress Tolerance of Antibody-Poly(Amino Acid) Complexes for Improving the Stability of High Concentration Antibody Formulations. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 2457-63	3.9	13
93	Why do solution additives suppress the heat-induced inactivation of proteins? inhibition of chemical modifications. <i>Biotechnology Progress</i> , 2011 , 27, 855-62	2.8	13
92	Comparative analysis of amino acids and amino-acid derivatives in protein crystallization. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010 , 66, 744-9		13
91	Liquid Chromatographic Analysis of the Interaction between Amino Acids and Aromatic Surfaces Using Single-Wall Carbon Nanotubes. <i>Langmuir</i> , 2015 , 31, 8923-9	4	12
90	Allantoin and hydantoin as new protein aggregation suppressors. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 497-503	7.9	12
89	Arginine suppresses opalescence and liquid-liquid phase separation in IgG solutions. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 1708-1712	7.9	12

88	Different mechanisms of action of poly(ethylene glycol) and arginine on thermal inactivation of lysozyme and ribonuclease A. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 2543-52	4.9	12
87	Role of C-terminal Cys-rich Region of Phytochelatin Synthase in Tolerance to Cadmium Ion Toxicity. <i>Journal of Plant Biochemistry and Biotechnology</i> , 2009 , 18, 175-180	1.6	12
86	Ternary system of solution additives with arginine and salt for refolding of beta-galactosidase. <i>Protein Journal</i> , 2010 , 29, 161-6	3.9	12
85	Effect of an amyloidogenic sequence attached to yellow fluorescent protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 72, 811-21	4.2	12
84	Characterization of heat-induced aggregates of concanavalin A using fluorescent probes. <i>Science and Technology of Advanced Materials</i> , 2004 , 5, 339-341	7.1	12
83	Contribution of an imidazole-indole stack to high catalytic potency of a lysine-specific serine protease, <i>Achromobacter protease I</i> . <i>Journal of Biochemistry</i> , 2002 , 131, 213-8	3.1	12
82	Feasibility of antibody-poly(glutamic acid) complexes: preparation of high-concentration antibody formulations and their pharmaceutical properties. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 1929-1937	3.9	11
81	Observation of salt effects on hydration water of lysozyme in aqueous solution using terahertz time-domain spectroscopy. <i>Applied Physics Letters</i> , 2013 , 103, 173704	3.4	11
80	Stabilizing and destabilizing effects of arginine on deoxyribonucleic acid. <i>International Journal of Biological Macromolecules</i> , 2010 , 46, 217-22	7.9	11
79	Effect of amino acids and amino acid derivatives on crystallization of hemoglobin and ribonuclease A. <i>Journal of Synchrotron Radiation</i> , 2008 , 15, 316-8	2.4	11
78	Arginine is a disease modifier for polyQ disease models that stabilizes polyQ protein conformation. <i>Brain</i> , 2020 , 143, 1811-1825	11.2	10
77	Enhancing the tolerance of zebrafish (<i>Danio rerio</i>) to heavy metal toxicity by the expression of plant phytochelatin synthase. <i>Journal of Biotechnology</i> , 2006 , 122, 316-25	3.7	10
76	Wrap-and-Strip Technology of Protein-Polyelectrolyte Complex for Biomedical Application. <i>Current Medicinal Chemistry</i> , 2016 , 23, 276-89	4.3	10
75	Hyperactivation of Echinotrypsin by the Hofmeister effect. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016 , 133, S432-S438		10
74	Effect of additives on liquid droplets and aggregates of proteins. <i>Biophysical Reviews</i> , 2020 , 12, 587-592	3.7	9
73	Enzymatic analysis of a thermostabilized mutant of an Escherichia coli hygromycin B phosphotransferase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008 , 72, 2467-71	2.1	9
72	Mutational effects on O(6)-methylguanine-DNA methyltransferase from hyperthermophile: contribution of ion-pair network to protein thermostability. <i>Journal of Biochemistry</i> , 2004 , 135, 525-32	3.1	9
71	Selective separation method of aggregates from IgG solution by aqueous two-phase system. <i>Protein Expression and Purification</i> , 2019 , 161, 57-62	2	8

70	Noncovalent PEGylation-based enzyme switch in physiological saline conditions using quaternized polyamines. <i>Colloid and Polymer Science</i> , 2016 , 294, 1551-1556	2.4	8
69	Recovery Method for Surimi Wash-water Protein by pH Shift and Heat Treatment. <i>Food Science and Technology Research</i> , 2016 , 22, 743-749	0.8	8
68	A study of the small-molecule system used to investigate the effect of arginine on antibody elution in hydrophobic charge-induction chromatography. <i>Protein Expression and Purification</i> , 2017 , 129, 44-52	2	8
67	Directed evolution for thermostabilization of a hygromycin B phosphotransferase from <i>Streptomyces hygrosopicus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2013 , 77, 2234-41	2.1	8
66	Enhanced solubilization of membrane proteins by alkylamines and polyamines. <i>Protein Science</i> , 2010 , 19, 486-93	6.3	8
65	Stretched-exponential analysis of heat-induced aggregation of apo-concanavalin A. <i>Protein Journal</i> , 2005 , 24, 193-9	3.9	8
64	Quadruplex Folding Promotes the Condensation of Linker Histones and DNAs via Liquid-Liquid Phase Separation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9849-9857	16.4	8
63	Effect of counter ions of arginine as an additive for the solubilization of protein and aromatic compounds. <i>International Journal of Biological Macromolecules</i> , 2016 , 91, 471-6	7.9	8
62	Effect of additives on liquid droplet of protein-polyelectrolyte complex for high-concentration formulations. <i>Journal of Chemical Physics</i> , 2019 , 150, 064903	3.9	8
61	Salt-dependent elution of uncharged aromatic solutes in ion-exchange chromatography. <i>Journal of Chromatography A</i> , 2018 , 1546, 46-55	4.5	7
60	Synthesis of graphene nanoribbons from amyloid templates by gallium vapor-assisted solid-phase graphitization. <i>Applied Physics Letters</i> , 2014 , 104, 243101	3.4	7
59	Charge-Separated Fmoc-Peptide β -Sheets: Sequence-Secondary Structure Relationship for Arranging Charged Side Chains on Both Sides. <i>Asian Journal of Organic Chemistry</i> , 2014 , 3, 1182-1188	3	7
58	Hyperactivation of serine proteases by the Hofmeister effect. <i>Molecular Catalysis</i> , 2018 , 455, 32-37	3.3	7
57	Cysteine inhibits the fibrillisation and cytotoxicity of amyloid- β 40 and 42: implications for the contribution of the thiophilic interaction. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 3566-72	3.6	6
56	Structure of three Humanin peptides with different activities upon interaction with liposome. <i>International Journal of Biological Macromolecules</i> , 2011 , 48, 360-3	7.9	6
55	Unfolding mechanism of a hyperthermophilic protein O(6)-methylguanine-DNA methyltransferase. <i>Biophysical Chemistry</i> , 2005 , 116, 97-104	3.5	6
54	Control of Aggregation, Coaggregation, and Liquid Droplet of Proteins Using Small Additives. <i>Current Pharmaceutical Biotechnology</i> , 2018 , 19, 946-955	2.6	6
53	Conformational Stability of a Hyperthermophilic Protein in Various Conditions for Denaturation. <i>Electrochemistry</i> , 2001 , 69, 949-952	1.2	6

52	Optical Fingerprints of Proteases and Their Inhibited Complexes Provided by Differential Cross-Reactivity of Fluorophore-Labeled Single-Stranded DNA. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47428-47436	9.5	6
51	Effects of Arginine on Multimodal Chromatography: Experiments and Simulations. <i>Current Protein and Peptide Science</i> , 2019 , 20, 40-48	2.8	6
50	A new pH-responsive peptide tag for protein purification. <i>Protein Expression and Purification</i> , 2018 , 146, 91-96	2	5
49	Arginine Suppresses the Adsorption of Lysozyme onto Single-wall Carbon Nanotubes. <i>Chemistry Letters</i> , 2016 , 45, 952-954	1.7	5
48	Structure changes of natively disordered Humanin in the presence of lipid. <i>International Journal of Biological Macromolecules</i> , 2010 , 46, 375-9	7.9	5
47	Effect of Electrolyte Ions on the Stability of Flavin Adenine Dinucleotide-Dependent Glucose Dehydrogenase. <i>ChemElectroChem</i> , 2019 , 6, 1028-1031	4.3	5
46	Trimethylamine N-oxide (TMAO) is a counteracting solute of benzyl alcohol for multi-dose formulation of immunoglobulin. <i>International Journal of Biological Macromolecules</i> , 2018 , 107, 984-989	7.9	4
45	Hydantoin and Its Derivatives Reduce the Viscosity of Concentrated Antibody Formulations by Inhibiting Associations via Hydrophobic Amino Acid Residues. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 16296-16306	3.9	4
44	Synthesis of Optically Active Polyamines Based on Chiral 1-Cyclohexylethylamine Derivatives. <i>Polymer Journal</i> , 2009 , 41, 503-507	2.7	4
43	Improving the heat resistance of ribonuclease A by the addition of poly(N,N-diethylaminoethyl methacrylate)-graft-poly(ethylene glycol) (PEAMA-g-PEG). <i>Macromolecular Bioscience</i> , 2010 , 10, 853-9	5.5	4
42	Equilibrium and kinetic stability of a hyperthermophilic protein, O6-methylguanine-DNA methyltransferase under various extreme conditions. <i>Journal of Biochemistry</i> , 2004 , 136, 503-8	3.1	4
41	Contribution of protein-surface ion pairs of a hyperthermophilic protein on thermal and thermodynamic stability. <i>Journal of Bioscience and Bioengineering</i> , 2004 , 97, 75-7	3.3	4
40	Specific solubilization of impurities in culture media: Arg solution improves purification of pH-responsive tag CspB50 with Teriparatide. <i>Protein Expression and Purification</i> , 2018 , 146, 85-90	2	3
39	Effects of allantoin and dimethyl sulfoxide on the thermal aggregation of lysozyme. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 180-185	7.9	3
38	Glutathione ethylester, a novel protein refolding reagent, enhances both the efficiency of refolding and correct disulfide formation. <i>Protein Journal</i> , 2012 , 31, 499-503	3.9	3
37	Small Molecular Additives to Prevent Protein Inactivation and Aggregation. <i>Seibutsu Butsuri</i> , 2004 , 44, 87-90	0	3
36	The binding affinity of uncharged aromatic solutes for negatively charged resins is enhanced by cations via cation-π interactions: The case of sodium ion and arginine. <i>Journal of Chromatography A</i> , 2019 , 1595, 97-107	4.5	2
35	Vibrational energy transfer from photoexcited carbon nanotubes to proteins observed by coherent phonon spectroscopy. <i>Applied Physics Express</i> , 2017 , 10, 125101	2.4	2

34	Array-based Generation of Response Patterns with Common Fluorescent Dyes for Identification of Proteins and Cells. <i>Analytical Sciences</i> , 2019 , 35, 99-102	1.7	2
33	Synthesis of graphene nanoribbons from amyloid fibrils by solid-phase graphitization using liquid gallium catalyst. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1658, 82		2
32	Drug solubilization effect of lauroyl-L-glutamate. <i>Journal of Biochemistry</i> , 2012 , 151, 27-33	3.1	2
31	Mechanism of Enhanced Dispersion of Single-Walled Carbon Nanotubes with Proteins by Alcohols and Chaotropes. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 06GJ10	1.4	2
30	Genetic, enzymatic, and structural analyses of phenylalanyl-tRNA synthetase from <i>Thermococcus kodakaraensis</i> KOD1. <i>Journal of Biochemistry</i> , 2003 , 134, 567-74	3.1	2
29	The effects of N-acetyltryptophan and caprylic acid on protein aggregation. <i>Journal of Biological Macromolecules</i> , 2016 , 16, 3-7	0.4	2
28	Lowering the viscosity of a high-concentration antibody solution by protein-polyelectrolyte complex. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 133, 17-17	3.3	2
27	Aggregation of hen egg white proteins with additives during agitation. <i>LWT - Food Science and Technology</i> , 2021 , 146, 111378	5.4	2
26	Hydration of Aqueous Polymers Investigated by Terahertz Spectroscopy and Principal Component Analysis 2018 ,		2
25	Salt-containing aqueous two-phase system shows predictable partition of proteins with surface amino acids residues. <i>International Journal of Biological Macromolecules</i> , 2019 , 133, 1182-1186	7.9	1
24	Oligoethylene glycols prevent thermal aggregation of β -chymotrypsin in a temperature-dependent manner: implications for design guidelines. <i>Biotechnology Progress</i> , 2013 , 29, 1325-30	2.8	1
23	Transformation from a Metastable Structure to Native Form of Hyperthermophilic Proteins:A Phenomenon Known as Heat Maturation. <i>Seibutsu Butsuri</i> , 2002 , 42, 185-188	0	1
22	Solubility Parameters of Amino Acids on Liquid-Liquid Phase Separation and Aggregation of Proteins. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 691052	5.7	1
21	Non-chromatographic purification of Teriparatide with a pH-responsive CspB tag. <i>Protein Expression and Purification</i> , 2019 , 155, 66-71	2	1
20	Dynamic behavior of liquid droplets with enzyme compartmentalization triggered by sequential glycolytic enzyme reactions. <i>Chemical Communications</i> , 2021 , 57, 12544-12547	5.8	1
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