

Kentaro Shiraki

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8826840/publications.pdf>

Version: 2024-02-01

181
papers

5,014
citations

101543

36
h-index

118850

62
g-index

188
all docs

188
docs citations

188
times ranked

4597
citing authors

#	ARTICLE	IF	CITATIONS
1	Trifluoroethanol-induced Stabilization of the α -Helical Structure of β^2 -Lactoglobulin: Implication for Non-hierarchical Protein Folding. <i>Journal of Molecular Biology</i> , 1995, 245, 180-194.	4.2	451
2	Biophysical Effect of Amino Acids on the Prevention of Protein Aggregation. <i>Journal of Biochemistry</i> , 2002, 132, 591-595.	1.7	236
3	Effect of Additives on Protein Aggregation. <i>Current Pharmaceutical Biotechnology</i> , 2009, 10, 400-407.	1.6	211
4	Chemical modification of amino acids by atmospheric-pressure cold plasma in aqueous solution. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 285403.	2.8	209
5	Protein Inactivation by Low-temperature Atmospheric Pressure Plasma in Aqueous Solution. <i>Plasma Processes and Polymers</i> , 2012, 9, 77-82.	3.0	158
6	Prevention of thermal inactivation and aggregation of lysozyme by polyamines. <i>FEBS Journal</i> , 2003, 270, 4547-4554.	0.2	119
7	Specific Decrease in Solution Viscosity of Antibodies by Arginine for Therapeutic Formulations. <i>Molecular Pharmaceutics</i> , 2014, 11, 1889-1896.	4.6	95
8	Mechanistic insights into protein precipitation by alcohol. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 865-871.	7.5	84
9	Arginine-Assisted Solubilization System for Drug Substances: Solubility Experiment and Simulation. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13455-13462.	2.6	82
10	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, 14849-14854.	7.1	80
11	Viscosity Control of Protein Solution by Small Solutes: A Review. <i>Current Protein and Peptide Science</i> , 2018, 19, 746-758.	1.4	79
12	Synergistic solubilization of porcine myosin in physiological salt solution by arginine. <i>International Journal of Biological Macromolecules</i> , 2013, 62, 647-651.	7.5	78
13	Arginine ethylester prevents thermal inactivation and aggregation of lysozyme. <i>FEBS Journal</i> , 2004, 271, 3242-3247.	0.2	75
14	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, 269-274.	2.1	75
15	Arginine Increases the Solubility of Coumarin: Comparison with Salting-in and Salting-out Additives. <i>Journal of Biochemistry</i> , 2008, 144, 363-369.	1.7	68
16	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, 751-755.	2.1	65
17	Arginine and lysine reduce the high viscosity of serum albumin solutions for pharmaceutical injection. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 539-543.	2.2	61
18	Regulation of Lysozyme Activity Based on Thermotolerant Protein/Smart Polymer Complex Formation. <i>Journal of the American Chemical Society</i> , 2009, 131, 6549-6553.	13.7	59

#	ARTICLE	IF	CITATIONS
19	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, 1286-1291.	7.5	59
20	1,6-hexanediol rapidly immobilizes and condenses chromatin in living human cells. <i>Life Science Alliance</i> , 2021, 4, e202001005.	2.8	59
21	l-Argininamide improves the refolding more effectively than l-arginine. <i>Journal of Biotechnology</i> , 2007, 130, 153-160.	3.8	58
22	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.	2.8	51
23	Co-aggregation of ovalbumin and lysozyme. <i>Food Hydrocolloids</i> , 2017, 67, 206-215.	10.7	48
24	Indispensable structure of solution additives to prevent inactivation of lysozyme for heating and refolding. <i>Biotechnology Progress</i> , 2009, 25, 1515-1524.	2.6	47
25	Heat-induced formation of myosin oligomer-soluble filament complex in high-salt solution. <i>International Journal of Biological Macromolecules</i> , 2015, 73, 17-22.	7.5	47
26	Extraction and purification of human interleukin-10 from transgenic rice seeds. <i>Protein Expression and Purification</i> , 2010, 72, 125-130.	1.3	44
27	Enzyme Hyperactivation System Based on a Complementary Charged Pair of Polyelectrolytes and Substrates. <i>Langmuir</i> , 2014, 30, 3826-3831.	3.5	44
28	Amidated amino acids are prominent additives for preventing heat-induced aggregation of lysozyme. <i>Journal of Bioscience and Bioengineering</i> , 2007, 103, 440-443.	2.2	43
29	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, 181-191.	3.2	42
30	Diamines prevent thermal aggregation and inactivation of lysozyme. <i>Journal of Bioscience and Bioengineering</i> , 2005, 100, 556-561.	2.2	42
31	Amino Acid Esters Prevent Thermal Inactivation and Aggregation of Lysozyme. <i>Biotechnology Progress</i> , 2008, 21, 640-643.	2.6	42
32	One-Dimensional Protein-Based Nanoparticles Induce Lipid Bilayer Disruption: Carbon Nanotube Conjugates and Amyloid Fibrils. <i>Langmuir</i> , 2010, 26, 17256-17259.	3.5	41
33	Thermal Aggregation of Hen Egg White Proteins in the Presence of Salts. <i>Protein Journal</i> , 2015, 34, 212-219.	1.6	41
34	Arginine controls heat-induced cluster-cluster aggregation of lysozyme at around the isoelectric point. <i>Biopolymers</i> , 2011, 95, 695-701.	2.4	39
35	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, 423-433.	1.6	38
36	Improved Complementary Polymer Pair System: Switching for Enzyme Activity by PEGylated Polymers. <i>Langmuir</i> , 2012, 28, 4334-4338.	3.5	38

#	ARTICLE	IF	CITATIONS
37	Comparative analyses of the conformational stability of a hyperthermophilic protein and its mesophilic counterpart. <i>FEBS Journal</i> , 2001, 268, 4144-4150.	0.2	37
38	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, 1313-1321.	1.3	37
39	Effects of alkyl chain length of gallate on self-association and membrane binding. <i>Journal of Biochemistry</i> , 2011, 150, 165-171.	1.7	36
40	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
41	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, 15060-15069.	2.8	36
42	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.	13.7	36
43	Differences in the Effects of Solution Additives on Heat- and Refolding-Induced Aggregation. <i>Biotechnology Progress</i> , 2008, 24, 436-443.	2.6	35
44	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
45	Chelation of Cadmium Ions by Phytochelatin Synthase: Role of the Cystein-rich C-Terminal. <i>Analytical Sciences</i> , 2008, 24, 277-281.	1.6	34
46	Adsorption and Disruption of Lipid Bilayers by Nanoscale Protein Aggregates. <i>Langmuir</i> , 2012, 28, 3887-3895.	3.5	32
47	Noncovalent PEGylation of L-Asparaginase Using PEGylated Polyelectrolyte. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 587-592.	3.3	32
48	Arginine prevents thermal aggregation of hen egg white proteins. <i>Food Research International</i> , 2017, 97, 272-279.	6.2	32
49	Charge state of arginine as an additive on heat-induced protein aggregation.. <i>International Journal of Biological Macromolecules</i> , 2016, 87, 563-569.	7.5	31
50	Aggregative protein-polyelectrolyte complex for high-concentration formulation of protein drugs. <i>International Journal of Biological Macromolecules</i> , 2017, 100, 11-17.	7.5	31
51	Co-aggregation of ovotransferrin and lysozyme. <i>Food Hydrocolloids</i> , 2019, 89, 416-424.	10.7	31
52	Small Amine Molecules: Solvent Design Toward Facile Improvement of Protein Stability Against Aggregation and Inactivation. <i>Current Pharmaceutical Biotechnology</i> , 2015, 17, 116-125.	1.6	29
53	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.	7.5	29
54	Arginine Inhibits Adsorption of Proteins on Polystyrene Surface. <i>PLoS ONE</i> , 2013, 8, e70762.	2.5	28

#	ARTICLE	IF	CITATIONS
55	Dissolution of protein aggregation by small amine compounds. <i>Science and Technology of Advanced Materials</i> , 2003, 4, 55-59.	6.1	27
56	The solubility of nucleobases in aqueous arginine solutions. <i>Archives of Biochemistry and Biophysics</i> , 2010, 497, 90-96.	3.0	27
57	Protein-Poly(amino acid) Complex Precipitation for High-Concentration Protein Formulation. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 2248-2254.	3.3	26
58	Enzyme switch by complementary polymer pair system (CPPS). <i>Soft Matter</i> , 2010, 6, 5320.	2.7	25
59	Ultrafast vibrational motion of carbon nanotubes in different pH environments. <i>Physical Review B</i> , 2009, 80, .	3.2	24
60	Mechanism of co-aggregation in a protein mixture with small additives. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 1428-1437.	7.5	24
61	Liquid Droplet of Protein-Polyelectrolyte Complex for High-Concentration Formulations. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 2713-2719.	3.3	24
62	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, 51043-51048.	3.4	23
63	Mechanism of protein desorption from 4-mercaptoethylpyridine resins by arginine solutions. <i>Journal of Chromatography A</i> , 2014, 1373, 141-148.	3.7	23
64	Protein-poly(amino acid) precipitation stabilizes a therapeutic protein l-asparaginase against physicochemical stress. <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 720-724.	2.2	22
65	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.	7.5	22
66	High temperature increases the refolding yield of reduced lysozyme: implication for the productive process for folding. <i>Biotechnology Progress</i> , 2004, 20, 1128-1133.	2.6	21
67	Polyethylene glycol behaves like weak organic solvent. <i>Biopolymers</i> , 2012, 97, 117-122.	2.4	21
68	Effect of additives on liquid droplets and aggregates of proteins. <i>Biophysical Reviews</i> , 2020, 12, 587-592.	3.2	21
69	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, 10-17.	1.8	20
70	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.	2.3	20
71	Dependence of ethanol effects on protein charges. <i>International Journal of Biological Macromolecules</i> , 2014, 68, 169-172.	7.5	20
72	Arginine is a disease modifier for polyQ disease models that stabilizes polyQ protein conformation. <i>Brain</i> , 2020, 143, 1811-1825.	7.6	20

#	ARTICLE	IF	CITATIONS
73	Electrostatic role of aromatic ring stacking in the pH-sensitive modulation of a chymotrypsin-type serine protease, <i>Achromobacter protease</i> . <i>FEBS Journal</i> , 2002, 269, 4152-4158.	0.2	19
74	Enzymatic fingerprinting of structurally similar homologous proteins using polyion complex library constructed by tuning PEGylated polyamine functionalities. <i>Analyst</i> , 2014, 139, 6100-6103.	3.5	19
75	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, 2457-2463.	3.3	19
76	Arginine suppresses opalescence and liquid-liquid phase separation in IgG solutions. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 1708-1712.	7.5	19
77	Controlled Dispersion and Purification of Protein-Carbon Nanotube Conjugates Using Guanidine Hydrochloride. <i>Chemistry - A European Journal</i> , 2010, 16, 12221-12228.	3.3	18
78	Degeneration of amyloid- β fibrils caused by exposure to low-temperature atmospheric-pressure plasma in aqueous solution. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	18
79	Effects of multivalency and hydrophobicity of polyamines on enzyme hyperactivation of β -chymotrypsin. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 115, 135-139.	1.8	18
80	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.	2.1	17
81	Synergistically Enhanced Dispersion of Native Protein-Carbon Nanotube Conjugates by Fluoroalcohols in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2009, 15, 9905-9910.	3.3	17
82	Why do solution additives suppress the heat-induced inactivation of proteins? Inhibition of chemical modifications. <i>Biotechnology Progress</i> , 2011, 27, 855-862.	2.6	17
83	Observation of salt effects on hydration water of lysozyme in aqueous solution using terahertz time-domain spectroscopy. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	17
84	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, 470-478.	2.6	17
85	Liquid Chromatographic Analysis of the Interaction between Amino Acids and Aromatic Surfaces Using Single-Wall Carbon Nanotubes. <i>Langmuir</i> , 2015, 31, 8923-8929.	3.5	17
86	A Second Lysine-Specific Serine Protease from <i>Lysobacter</i> sp. Strain IB-9374. <i>Journal of Bacteriology</i> , 2004, 186, 5093-5100.	2.2	16
87	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.	6.1	16
88	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.	6.5	16
89	Allantoin and hydantoin as new protein aggregation suppressors. <i>International Journal of Biological Macromolecules</i> , 2018, 114, 497-503.	7.5	16
90	Glycine amide shielding on the aromatic surfaces of lysozyme: Implication for suppression of protein aggregation. <i>FEBS Letters</i> , 2011, 585, 555-560.	2.8	15

#	ARTICLE	IF	CITATIONS
91	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.	3.3	15
92	Noncovalent PEGylation through Protein-Polyelectrolyte Interaction: Kinetic Experiment and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6785-6791.	2.6	15
93	Effects of Arginine on Multimodal Chromatography: Experiments and Simulations. <i>Current Protein and Peptide Science</i> , 2018, 20, 40-48.	1.4	15
94	Dynamic behavior of liquid droplets with enzyme compartmentalization triggered by sequential glycolytic enzyme reactions. <i>Chemical Communications</i> , 2021, 57, 12544-12547.	4.1	15
95	Contribution of an Imidazole-Indole Stack to High Catalytic Potency of a Lysine-Specific Serine Protease, <i>Achromobacter</i> Protease I. <i>Journal of Biochemistry</i> , 2002, 131, 213-218.	1.7	14
96	trans-Cyclohexanediamines Prevent Thermal Inactivation of Protein: Role of Hydrophobic and Electrostatic Interactions. <i>Protein Journal</i> , 2008, 27, 253-257.	1.6	14
97	Effect of amino acids and amino acid derivatives on crystallization of hemoglobin and ribonuclease A. <i>Journal of Synchrotron Radiation</i> , 2008, 15, 316-318.	2.4	14
98	Stabilizing and destabilizing effects of arginine on deoxyribonucleic acid. <i>International Journal of Biological Macromolecules</i> , 2010, 46, 217-222.	7.5	14
99	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, 2543-2552.	3.3	14
100	Effect of additives on liquid droplet of protein-polyelectrolyte complex for high-concentration formulations. <i>Journal of Chemical Physics</i> , 2019, 150, 064903.	3.0	14
101	Effect of an amyloidogenic sequence attached to yellow fluorescent protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 811-821.	2.6	13
102	Comparative analysis of amino acids and amino-acid derivatives in protein crystallization. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 744-749.	0.7	13
103	Hyperactivation of α -chymotrypsin by the Hofmeister effect. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, S432-S438.	1.8	13
104	Wrap-and-Strip Technology of Protein-Polyelectrolyte Complex for Biomedical Application. <i>Current Medicinal Chemistry</i> , 2016, 23, 276-289.	2.4	13
105	Characterization of heat-induced aggregates of concanavalin A using fluorescent probes. <i>Science and Technology of Advanced Materials</i> , 2004, 5, 339-341.	6.1	12
106	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.	1.7	12
107	Ternary System of Solution Additives with Arginine and Salt for Refolding of Beta-Galactosidase. <i>Protein Journal</i> , 2010, 29, 161-166.	1.6	12
108	Enhanced solubilization of membrane proteins by alkylamines and polyamines. <i>Protein Science</i> , 2010, 19, 486-493.	7.6	12

#	ARTICLE	IF	CITATIONS
109	Salt-dependent elution of uncharged aromatic solutes in ion-exchange chromatography. <i>Journal of Chromatography A</i> , 2018, 1546, 46-55.	3.7	12
110	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, 316-325.	3.8	11
111	Recovery Method for Surimi Wash-water Protein by pH Shift and Heat Treatment. <i>Food Science and Technology Research</i> , 2016, 22, 743-749.	0.6	11
112	Selective separation method of aggregates from IgG solution by aqueous two-phase system. <i>Protein Expression and Purification</i> , 2019, 161, 57-62.	1.3	11
113	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.	8.0	11
114	Mutational Effects on O6-Methylguanine-DNA Methyltransferase from Hyperthermophile: Contribution of Ion-Pair Network to Protein Thermostability. <i>Journal of Biochemistry</i> , 2004, 135, 525-532.	1.7	10
115	Enzymatic Analysis of a Thermostabilized Mutant of an <i>Escherichia coli</i> Hygromycin B Phosphotransferase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 2467-2471.	1.3	10
116	Directed Evolution for Thermostabilization of a Hygromycin B Phosphotransferase from <i>Streptomyces hygroscopicus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 2234-2241.	1.3	10
117	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.	2.8	10
118	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.	1.3	10
119	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, 471-476.	7.5	9
120	Noncovalent PEGylation-based enzyme switch in physiological saline conditions using quaternized polyamines. <i>Colloid and Polymer Science</i> , 2016, 294, 1551-1556.	2.1	9
121	Lowering the viscosity of a high-concentration antibody solution by protein-polyelectrolyte complex. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 17-24.	2.2	9
122	Stretched-Exponential Analysis of Heat-Induced Aggregation of Apo-Concanavalin A. <i>Protein Journal</i> , 2005, 24, 193-199.	1.6	8
123	Synthesis of graphene nanoribbons from amyloid templates by gallium vapor-assisted solid-phase graphitization. <i>Applied Physics Letters</i> , 2014, 104, 243101.	3.3	8
124	A new pH-responsive peptide tag for protein purification. <i>Protein Expression and Purification</i> , 2018, 146, 91-96.	1.3	8
125	Hyperactivation of serine proteases by the Hofmeister effect. <i>Molecular Catalysis</i> , 2018, 455, 32-37.	2.0	8
126	Effect of Electrolyte Ions on the Stability of Flavin Adenine Dinucleotide-Dependent Glucose Dehydrogenase. <i>ChemElectroChem</i> , 2019, 6, 1028-1031.	3.4	8

#	ARTICLE	IF	CITATIONS
127	Conformational Stability of a Hyperthermophilic Protein in Various Conditions for Denaturation. <i>Electrochemistry</i> , 2001, 69, 949-952.	1.4	8
128	Charge-Separated Fmoc-Peptide Î²-Sheets: Sequence-Secondary Structure Relationship for Arranging Charged Side Chains on Both Sides. <i>Asian Journal of Organic Chemistry</i> , 2014, 3, 1182-1188.	2.7	7
129	Arginine Suppresses the Adsorption of Lysozyme onto Single-wall Carbon Nanotubes. <i>Chemistry Letters</i> , 2016, 45, 952-954.	1.3	7
130	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.	3.7	7
131	Non-chromatographic purification of Teriparatide with a pH-responsive CspB tag. <i>Protein Expression and Purification</i> , 2019, 155, 66-71.	1.3	7
132	Control of Aggregation, Coaggregation, and Liquid Droplet of Proteins Using Small Additives. <i>Current Pharmaceutical Biotechnology</i> , 2019, 19, 946-955.	1.6	7
133	Equilibrium and Kinetic Stability of a Hyperthermophilic Protein, O6-Methylguanine-DNA Methyltransferase under Various Extreme Conditions. <i>Journal of Biochemistry</i> , 2004, 136, 503-508.	1.7	6
134	Unfolding mechanism of a hyperthermophilic protein O6-methylguanine-DNA methyltransferase. <i>Biophysical Chemistry</i> , 2005, 116, 97-104.	2.8	6
135	Improving the Heat Resistance of Ribonuclease A by the Addition of Poly(<i>N,N</i> -diethylaminoethyl methacrylate)-graft-poly(ethylene glycol) (PEAMA-g-PEG). <i>Macromolecular Bioscience</i> , 2010, 10, 853-859.	4.1	6
136	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
137	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.	3.7	6
138	Aggregation of hen egg white proteins with additives during agitation. <i>LWT - Food Science and Technology</i> , 2021, 146, 111378.	5.2	6
139	Structure changes of natively disordered Humanin in the presence of lipid. <i>International Journal of Biological Macromolecules</i> , 2010, 46, 375-379.	7.5	5
140	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.	7.5	5
141	Effects of allantoin and dimethyl sulfoxide on the thermal aggregation of lysozyme. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 180-185.	7.5	5
142	Contribution of protein-surface ion pairs of a hyperthermophilic protein on thermal and thermodynamic stability. <i>Journal of Bioscience and Bioengineering</i> , 2004, 97, 75-77.	2.2	4
143	Synthesis of Optically Active Polyamines Based on Chiral 1-Cyclohexylethylamine Derivatives. <i>Polymer Journal</i> , 2009, 41, 503-507.	2.7	4
144	Drug solubilization effect of lauroyl-L-glutamate. <i>Journal of Biochemistry</i> , 2012, 151, 27-33.	1.7	4

#	ARTICLE	IF	CITATIONS
145	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.	1.6	4
146	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.	1.3	4
147	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.	7.5	4
148	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.	3.7	4
149	Glass-like protein condensate for the long-term storage of proteins. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 162-167.	7.5	4
150	Differences in interaction lead to the formation of different types of insulin amyloid. <i>Scientific Reports</i> , 2022, 12, .	3.3	4
151	Genetic, Enzymatic, and Structural Analyses of Phenylalanyl-tRNA Synthetase from <i>Thermococcus kodakaraensis</i> KOD1. <i>Journal of Biochemistry</i> , 2003, 134, 567-574.	1.7	3
152	Vibrational energy transfer from photoexcited carbon nanotubes to proteins observed by coherent phonon spectroscopy. <i>Applied Physics Express</i> , 2017, 10, 125101.	2.4	3
153	Hydration of Aqueous Polymers Investigated by Terahertz Spectroscopy and Principal Component Analysis. , 2018, , .		3
154	Aromatic interaction of hydantoin compounds leads to virucidal activities. <i>Biophysical Chemistry</i> , 2021, 275, 106621.	2.8	3
155	Small Molecular Additives to Prevent Protein Inactivation and Aggregation. <i>Seibutsu Butsuri</i> , 2004, 44, 87-90.	0.1	3
156	Arginine and its Derivatives Suppress the Opalescence of an Antibody Solution. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 1126-1132.	3.3	3
157	Classification of protein solubilizing solutes by fluorescence assay. <i>International Journal of Biological Macromolecules</i> , 2022, 203, 695-702.	7.5	3
158	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.	1.5	2
159	Oligoethylene glycols prevent thermal aggregation of β -chymotrypsin in a temperature-dependent manner: Implications for design guidelines. <i>Biotechnology Progress</i> , 2013, 29, 1325-1330.	2.6	2
160	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.	0.1	2
161	Array-based Generation of Response Patterns with Common Fluorescent Dyes for Identification of Proteins and Cells. <i>Analytical Sciences</i> , 2019, 35, 99-102.	1.6	2
162	The effects of N-acetyltryptophan and caprylic acid on protein aggregation. <i>Journal of Biological Macromolecules</i> , 2016, 16, 3-7.	0.3	2

#	ARTICLE	IF	CITATIONS
163	Two Elution Mechanisms of MEP Chromatography. <i>Current Protein and Peptide Science</i> , 2018, 20, 28-33.	1.4	2
164	Affinity of aromatic amino acid side chains in amino acid solvents. <i>Biophysical Chemistry</i> , 2022, 287, 106831.	2.8	2
165	Insight into the protein salting-in mechanism of arginine, magnesium chloride and ethylene glycol: Solvent interaction with aromatic solutes. <i>International Journal of Biological Macromolecules</i> , 2021, 188, 670-677.	7.5	1
166	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	1
167	Solution design to extend the pH range of the pH-responsive precipitation of a CspB fusion protein. <i>Protein Expression and Purification</i> , 2022, 195-196, 106091.	1.3	1
168	2P104 Structural implications of an amyloidogenic sequence attached to a folded protein(31. Protein) <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i> <i>Butsuri</i> , 2006, 46, S321.	0.1	0
169	3P-032 Poly (allylamine) prevents heat-induced inactivation of lysozyme and ribonuclease A(The 46th) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	0.1	0
170	1P-339 Improvement in dispersion of single-walled carbon nanotube by using proteins(The 46th Annual) <i>Tj ETQq0 0 0 rgBT /Overlock 10</i>	0.1	0
171	2P-060 Regulation of enzymatic activity using complementary polyelectrolyte pair(Protein:Function,The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009, 49, S116.	0.1	0
172	3P-272 Adsorption and structure change of protein on carbon nanotube surfaces(Miscellaneous) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3</i>	0.1	0
173	Thermal-Assisted Refolding: Dilution Folding Initiated at High Temperature. <i>Current Pharmaceutical Biotechnology</i> , 2010, 11, 306-308.	1.6	0
174	2P242 Quantitative Analysis of the interaction between Alkyl Gallates and Phospholipid Bilayers(The) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	0.1	0
175	3P080 Molecular mechanism of the solution additves on thermal inactivation of proteins(Protein:) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i> S158-S159.	0.1	0
176	1D1424 The influence of buffer species on the thermostability of proteins(Protein: Property 1,The 49th) <i>Tj ETQq0 0 0 rgBT /Overlock 10</i>	0.1	0
177	3C1558 Destruction of Amyloid Fibrils by Low-Temperature Atmospheric Pressure Plasma(3C Molecular) <i>Tj ETQq1 1 0.784314 rgBT /Ove</i>	0.1	0
178	Terahertz spectroscopic study of ion effects on protein hydration. , 2015, , .		0
179	ç”Yă1/2“æ©Yđf1/2æ€Šă,«ăf1/4ăfœăf3ăfŠăfŽç2’ăă@ă%μæˆ: Hosokawa Powder Technology Foundation ANNUAL REPORT, 2008, 16, 11		0
180	2P348 Protein-absorbed carbon nanotubes and amyloid fibrils disrupt phospholipid dilayer membranes : implications for their biological impact(The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010, 50, S144.	0.1	0

#	ARTICLE	IF	CITATIONS
181	Opalescence Arising from Network Assembly in Antibody Solution. <i>Molecular Pharmaceutics</i> , 2022, 19, 1160-1167.	4.6	0