

# 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  | 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         |
| 2  | Arginine and its Derivatives Suppress the Opalescence of an Antibody Solution. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 1126-1132.  | 3.3  | 3         |
| 3  | Classification of protein solubilizing solutes by fluorescence assay. <i>International Journal of Biological Macromolecules</i> , 2022, 203, 695-702.   | 7.5  | 3         |
| 4  | Opalescence Arising from Network Assembly in Antibody Solution. <i>Molecular Pharmaceutics</i> , 2022, 19, 1160-1167.   | 4.6  | 0         |
| 5  | 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         |
| 6  | Differences in interaction lead to the formation of different types of insulin amyloid. <i>Scientific Reports</i> , 2022, 12, .   | 3.3  | 4         |
| 7  | Affinity of aromatic amino acid side chains in amino acid solvents. <i>Biophysical Chemistry</i> , 2022, 287, 106831.   | 2.8  | 2         |
| 8  | 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        |
| 9  | 1,6-hexanediol rapidly immobilizes and condenses chromatin in living human cells. <i>Life Science Alliance</i> , 2021, 4, e202001005.   | 2.8  | 59        |
| 10 | 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         |
| 11 | 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        |
| 12 | Aggregation of hen egg white proteins with additives during agitation. <i>LWT - Food Science and Technology</i> , 2021, 146, 111378.  | 5.2  | 6         |
| 13 | 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         |
| 14 | Aromatic interaction of hydantoin compounds leads to virucidal activities. <i>Biophysical Chemistry</i> , 2021, 275, 106621.  | 2.8  | 3         |
| 15 | 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         |
| 16 | Arginine is a disease modifier for polyQ disease models that stabilizes polyQ protein conformation. <i>Brain</i> , 2020, 143, 1811-1825.  | 7.6  | 20        |
| 17 | Effect of additives on liquid droplets and aggregates of proteins. <i>Biophysical Reviews</i> , 2020, 12, 587-592.  | 3.2  | 21        |
| 18 | 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         |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Hydantoin and Its Derivatives Reduce the Viscosity of Concentrated Antibody Formulations by Inhibiting Associations via Hydrophobic Amino Acid Residues. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 16296-16306. | 3.7  | 7         |
| 20 | 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        |
| 21 | 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         |
| 22 | The binding affinity of uncharged aromatic solutes for negatively charged resins is enhanced by cations via cation- $\pi$ interactions: The case of sodium ion and arginine. <i>Journal of Chromatography A</i> , 2019, 1595, 97-107.    | 3.7  | 4         |
| 23 | 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        |
| 24 | Optical Fingerprints of Proteases and Their Inhibited Complexes Provided by Differential Cross-Reactivity of Fluorophore-Labeled Single-Stranded DNA. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47428-47436.             | 8.0  | 11        |
| 25 | Non-chromatographic purification of Teriparatide with a pH-responsive CspB tag. <i>Protein Expression and Purification</i> , 2019, 155, 66-71.   | 1.3  | 7         |
| 26 | Effect of Electrolyte Ions on the Stability of Flavin Adenine Dinucleotide-Dependent Glucose Dehydrogenase. <i>ChemElectroChem</i> , 2019, 6, 1028-1031.   | 3.4  | 8         |
| 27 | Co-aggregation of ovotransferrin and lysozyme. <i>Food Hydrocolloids</i> , 2019, 89, 416-424.  | 10.7 | 31        |
| 28 | Control of Aggregation, Coaggregation, and Liquid Droplet of Proteins Using Small Additives. <i>Current Pharmaceutical Biotechnology</i> , 2019, 19, 946-955.  | 1.6  | 7         |
| 29 | Salt-dependent elution of uncharged aromatic solutes in ion-exchange chromatography. <i>Journal of Chromatography A</i> , 2018, 1546, 46-55.   | 3.7  | 12        |
| 30 | Allantoin and hydantoin as new protein aggregation suppressors. <i>International Journal of Biological Macromolecules</i> , 2018, 114, 497-503.  | 7.5  | 16        |
| 31 | 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         |
| 32 | A new pH-responsive peptide tag for protein purification. <i>Protein Expression and Purification</i> , 2018, 146, 91-96.   | 1.3  | 8         |
| 33 | 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        |
| 34 | 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         |
| 35 | Effects of Arginine on Multimodal Chromatography: Experiments and Simulations. <i>Current Protein and Peptide Science</i> , 2018, 20, 40-48.   | 1.4  | 15        |
| 36 | Hydration of Aqueous Polymers Investigated by Terahertz Spectroscopy and Principal Component Analysis. , 2018, , .   |      | 3         |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 37 | Hyperactivation of serine proteases by the Hofmeister effect. <i>Molecular Catalysis</i> , 2018, 455, 32-37.   | 2.0  | 8         |
| 38 | Viscosity Control of Protein Solution by Small Solutes: A Review. <i>Current Protein and Peptide Science</i> , 2018, 19, 746-758.  | 1.4  | 79        |
| 39 | Effects of allantoin and dimethyl sulfoxide on the thermal aggregation of lysozyme. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 180-185.  | 7.5  | 5         |
| 40 | 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        |
| 41 | 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        |
| 42 | Liquid Droplet of Protein-Polyelectrolyte Complex for High-Concentration Formulations. <i>Journal of Pharmaceutical Sciences</i> , 2018, 107, 2713-2719.   | 3.3  | 24        |
| 43 | Two Elution Mechanisms of MEP Chromatography. <i>Current Protein and Peptide Science</i> , 2018, 20, 28-33.  | 1.4  | 2         |
| 44 | 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        |
| 45 | Co-aggregation of ovalbumin and lysozyme. <i>Food Hydrocolloids</i> , 2017, 67, 206-215.   | 10.7 | 48        |
| 46 | Arginine prevents thermal aggregation of hen egg white proteins. <i>Food Research International</i> , 2017, 97, 272-279.   | 6.2  | 32        |
| 47 | 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        |
| 48 | 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        |
| 49 | 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        |
| 50 | 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        |
| 51 | 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         |
| 52 | Hyperactivation of $\beta$ -chymotrypsin by the Hofmeister effect. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, S432-S438.  | 1.8  | 13        |
| 53 | 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         |
| 54 | Arginine Suppresses the Adsorption of Lysozyme onto Single-wall Carbon Nanotubes. <i>Chemistry Letters</i> , 2016, 45, 952-954.  | 1.3  | 7         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | 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         |
| 56 | 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        |
| 57 | 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        |
| 58 | 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        |
| 59 | The effects of N-acetyltryptophan and caprylic acid on protein aggregation. <i>Journal of Biological Macromolecules</i> , 2016, 16, 3-7.   | 0.3 | 2         |
| 60 | Wrap-and-Strip Technology of Proteinâ€™Polyelectrolyte Complex for Biomedical Application. <i>Current Medicinal Chemistry</i> , 2016, 23, 276-289.   | 2.4 | 13        |
| 61 | Stress Tolerance of Antibodyâ€™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        |
| 62 | 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        |
| 63 | Terahertz spectroscopic study of ion effects on protein hydration. , 2015, , .   |     | 0         |
| 64 | Thermal Aggregation of Hen Egg White Proteins in the Presence of Salts. <i>Protein Journal</i> , 2015, 34, 212-219.  | 1.6 | 41        |
| 65 | 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        |
| 66 | 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        |
| 67 | Effects of multivalency and hydrophobicity of polyamines on enzyme hyperactivation of Î±-chymotrypsin. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 115, 135-139.  | 1.8 | 18        |
| 68 | Noncovalent PEGylation of l-Asparaginase Using PEGylated Polyelectrolyte. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 587-592.  | 3.3 | 32        |
| 69 | Feasibility of Antibodyâ€™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        |
| 70 | 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        |
| 71 | Chargeâ€™Separated Fmocâ€™Peptide Î²â€™Sheets: Sequenceâ€™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         |
| 72 | Enzymatic fingerprinting of structurally similar homologous proteins using polyion complex library constructed by tuning PEGylated polyamine functionalities. <i>Analyst</i> , The, 2014, 139, 6100-6103.  | 3.5 | 19        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Mechanism of protein desorption from 4-mercaptoethylpyridine resins by arginine solutions. <i>Journal of Chromatography A</i> , 2014, 1373, 141-148.   | 3.7 | 23        |
| 74 | Protein-Poly(amino acid) Complex Precipitation for High-Concentration Protein Formulation. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 2248-2254.   | 3.3 | 26        |
| 75 | 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        |
| 76 | Specific Decrease in Solution Viscosity of Antibodies by Arginine for Therapeutic Formulations. <i>Molecular Pharmaceutics</i> , 2014, 11, 1889-1896.  | 4.6 | 95        |
| 77 | 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        |
| 78 | 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         |
| 79 | Degeneration of amyloid- $\beta$ fibrils caused by exposure to low-temperature atmospheric-pressure plasma in aqueous solution. <i>Applied Physics Letters</i> , 2014, 104, .                                      | 3.3 | 18        |
| 80 | Cysteine inhibits the fibrillisation and cytotoxicity of amyloid- $\beta$ 40 and 42: implications for the contribution of the thiophilic interaction. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3566. | 2.8 | 10        |
| 81 | Enzyme Hyperactivation System Based on a Complementary Charged Pair of Polyelectrolytes and Substrates. <i>Langmuir</i> , 2014, 30, 3826-3831.   | 3.5 | 44        |
| 82 | 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       |
| 83 | Dependence of ethanol effects on protein charges. <i>International Journal of Biological Macromolecules</i> , 2014, 68, 169-172.   | 7.5 | 20        |
| 84 | 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         |
| 85 | 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        |
| 86 | 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        |
| 87 | 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        |
| 88 | Oligoethylene glycols prevent thermal aggregation of $\beta$ -chymotrypsin in a temperature-dependent manner: Implications for design guidelines. <i>Biotechnology Progress</i> , 2013, 29, 1325-1330.             | 2.6 | 2         |
| 89 | 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        |
| 90 | Directed Evolution for Thermostabilization of a Hygromycin B Phosphotransferase from <i>Streptomyces hygrosopicus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 2234-2241.                   | 1.3 | 10        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Arginine Inhibits Adsorption of Proteins on Polystyrene Surface. PLoS ONE, 2013, 8, e70762.   | 2.5 | 28        |
| 92  | Drug solubilization effect of lauroyl-L-glutamate. Journal of Biochemistry, 2012, 151, 27-33.   | 1.7 | 4         |
| 93  | Improved Complementary Polymer Pair System: Switching for Enzyme Activity by PEGylated Polymers. Langmuir, 2012, 28, 4334-4338.   | 3.5 | 38        |
| 94  | Mechanistic insights into protein precipitation by alcohol. International Journal of Biological Macromolecules, 2012, 50, 865-871.  | 7.5 | 84        |
| 95  | Effects of alcohol on the solubility and structure of native and disulfide-modified bovine serum albumin. International Journal of Biological Macromolecules, 2012, 50, 1286-1291.                                  | 7.5 | 59        |
| 96  | Protein Inactivation by Low-Temperature Atmospheric Pressure Plasma in Aqueous Solution. Plasma Processes and Polymers, 2012, 9, 77-82.   | 3.0 | 158       |
| 97  | Adsorption and Disruption of Lipid Bilayers by Nanoscale Protein Aggregates. Langmuir, 2012, 28, 3887-3895.   | 3.5 | 32        |
| 98  | Different mechanisms of action of poly(ethylene glycol) and arginine on thermal inactivation of lysozyme and ribonuclease A. Biotechnology and Bioengineering, 2012, 109, 2543-2552.                                | 3.3 | 14        |
| 99  | Glutathione Ethylester, a Novel Protein Refolding Reagent, Enhances both the Efficiency of Refolding and Correct Disulfide Formation. Protein Journal, 2012, 31, 499-503.   | 1.6 | 4         |
| 100 | Polyethylene glycol behaves like weak organic solvent. Biopolymers, 2012, 97, 117-122.  | 2.4 | 21        |
| 101 | Effects of alkyl chain length of gallate on self-association and membrane binding. Journal of Biochemistry, 2011, 150, 165-171.   | 1.7 | 36        |
| 102 | Structure of three Humanin peptides with different activities upon interaction with liposome. International Journal of Biological Macromolecules, 2011, 48, 360-363.  | 7.5 | 6         |
| 103 | 1D1424 The influence of buffer species on the thermostability of proteins(Protein: Property 1,The 49th) Tj ETQq1 1,0,784314 rgBT /O   | 0.1 | 0         |
| 104 | 3C1558 Destruction of Amyloid Fibrils by Low-Temperature Atmospheric Pressure Plasma(3C Molecular) Tj ETQq0 0 0 rgBT /Overlock 10   | 0.1 | 0         |
| 105 | Relationship between heat-induced fibrillogenicity and hemolytic activity of thermostable direct hemolysin and a related hemolysin of <i>Vibrio parahaemolyticus</i> . FEMS Microbiology Letters, 2011, 318, 10-17. | 1.8 | 20        |
| 106 | Glycine amide shielding on the aromatic surfaces of lysozyme: Implication for suppression of protein aggregation. FEBS Letters, 2011, 585, 555-560.   | 2.8 | 15        |
| 107 | Poly(acrylic acid) is a common noncompetitive inhibitor for cationic enzymes with high affinity and reversibility. Journal of Polymer Science Part A, 2011, 49, 3835-3841.  | 2.3 | 20        |
| 108 | Why do solution additives suppress the heat-induced inactivation of proteins? Inhibition of chemical modifications. Biotechnology Progress, 2011, 27, 855-862.  | 2.6 | 17        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 109 | Arginine controls heat-induced cluster-cluster aggregation of lysozyme at around the isoelectric point. <i>Biopolymers</i> , 2011, 95, 695-701.   | 2.4 | 39        |
| 110 | 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        |
| 111 | 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        |
| 112 | Thermal-Assisted Refolding: Dilution Folding Initiated at High Temperature. <i>Current Pharmaceutical Biotechnology</i> , 2010, 11, 306-308.  | 1.6 | 0         |
| 113 | 2P242 Quantitative Analysis of the interaction between Alkyl Gallates and Phospholipid Bilayers(The Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50   | 0.1 | 0         |
| 114 | 3P080 Molecular mechanism of the solution additives on thermal inactivation of proteins(Protein:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 S158-S159.   | 0.1 | 0         |
| 115 | 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        |
| 116 | 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        |
| 117 | Improving the Heat Resistance of Ribonuclease A by the Addition of Poly( <i>N</i> , <i>N</i> -diethylaminoethyl methacrylate)-graft-poly(ethylene glycol) (PEAMA-g-PEG). <i>Macromolecular Bioscience</i> , 2010, 10, 853-859.            | 4.1 | 6         |
| 118 | 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        |
| 119 | Enhanced solubilization of membrane proteins by alkylamines and polyamines. <i>Protein Science</i> , 2010, 19, 486-493.   | 7.6 | 12        |
| 120 | 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         |
| 121 | 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        |
| 122 | Stabilizing and destabilizing effects of arginine on deoxyribonucleic acid. <i>International Journal of Biological Macromolecules</i> , 2010, 46, 217-222.  | 7.5 | 14        |
| 123 | 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         |
| 124 | Extraction and purification of human interleukin-10 from transgenic rice seeds. <i>Protein Expression and Purification</i> , 2010, 72, 125-130.   | 1.3 | 44        |
| 125 | The solubility of nucleobases in aqueous arginine solutions. <i>Archives of Biochemistry and Biophysics</i> , 2010, 497, 90-96.   | 3.0 | 27        |
| 126 | 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        |



| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 127 | Enzyme switch by complementary polymer pair system (CPPS). <i>Soft Matter</i> , 2010, 6, 5320.  | 2.7  | 25        |
| 128 | 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         |
| 129 | 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        |
| 130 | Synthesis of Optically Active Polyamines Based on Chiral 1-Cyclohexylethylamine Derivatives. <i>Polymer Journal</i> , 2009, 41, 503-507.  | 2.7  | 4         |
| 131 | Ultrafast vibrational motion of carbon nanotubes in different pH environments. <i>Physical Review B</i> , 2009, 80, .   | 3.2  | 24        |
| 132 | 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        |
| 133 | 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        |
| 134 | Synergistically Enhanced Dispersion of Native Proteinâ€“Carbon Nanotube Conjugates by Fluoroalcohols in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2009, 15, 9905-9910.  | 3.3  | 17        |
| 135 | 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         |
| 136 | 3P-272 Adsorption and structure change of protein on carbon nanotube surfaces(Miscellaneous) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 3  | 0.1  | 0         |
| 137 | Effect of Additives on Protein Aggregation. <i>Current Pharmaceutical Biotechnology</i> , 2009, 10, 400-407.  | 1.6  | 211       |
| 138 | trans-Cyclohexanediamines Prevent Thermal Inactivation of Protein: Role of Hydrophobic and Electrostatic Interactions. <i>Protein Journal</i> , 2008, 27, 253-257.  | 1.6  | 14        |
| 139 | Effect of an amyloidogenic sequence attached to yellow fluorescent protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 811-821.  | 2.6  | 13        |
| 140 | Amino Acid Esters Prevent Thermal Inactivation and Aggregation of Lysozyme. <i>Biotechnology Progress</i> , 2008, 21, 640-643.  | 2.6  | 42        |
| 141 | Differences in the Effects of Solution Additives on Heatâ€“and Refoldingâ€“Induced Aggregation. <i>Biotechnology Progress</i> , 2008, 24, 436-443.  | 2.6  | 35        |
| 142 | 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        |
| 143 | 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        |
| 144 | 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        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 145 | Enzymatic Analysis of a Thermostabilized Mutant of an Escherichia coli Hygromycin B Phosphotransferase. Bioscience, Biotechnology and Biochemistry, 2008, 72, 2467-2471.  | 1.3 | 10        |
| 146 | Chelation of Cadmium Ions by Phytochelatin Synthase: Role of the Cystein-rich C-Terminal. Analytical Sciences, 2008, 24, 277-281.   | 1.6 | 34        |
| 147 | 3P-032 Poly (allylamine) prevents heat-induced inactivation of lysozyme and ribonuclease A(The 46th Annual Meeting of the Protein Society of Japan) Tj ETQq1 1 0.784314 rgBT /Overlock 0.1 0  | 0.1 | 0         |
| 148 | 1P-339 Improvement in dispersion of single-walled carbon nanotube by using proteins(The 46th Annual Meeting of the Protein Society of Japan) Tj ETQq0 0.0 rgBT /Overlock 0.1 0  | 0.0 | 0         |
| 149 | ç"Ÿä1/2"æ©Ÿèf1/2æ€Šä,«äf1/4äfœäf³äfŠäfŽç²'ää®ää%µæˆ: Hosokawa Powder Technology Foundation ANNUAL REPORT, 2008, 16, 11  |     |           |
| 150 | Systematic Analysis of Aggregates from 38 Kinds of Non Disease-Related Proteins: Identifying the Intrinsic Propensity of Polypeptides to Form Amyloid Fibrils. Bioscience, Biotechnology and Biochemistry, 2007, 71, 1313-1321.       | 1.3 | 37        |
| 151 | l-Argininamide improves the refolding more effectively than l-arginine. Journal of Biotechnology, 2007, 130, 153-160.   | 3.8 | 58        |
| 152 | Amidated amino acids are prominent additives for preventing heat-induced aggregation of lysozyme. Journal of Bioscience and Bioengineering, 2007, 103, 440-443.   | 2.2 | 43        |
| 153 | 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. Protein Journal, 2007, 26, 423-433. | 1.6 | 38        |
| 154 | Enhancing the tolerance of zebrafish (Danio rerio) to heavy metal toxicity by the expression of plant phytochelatin synthase. Journal of Biotechnology, 2006, 122, 316-325.   | 3.8 | 11        |
| 155 | 2P104 Structural implications of an amyloidogenic sequence attached to a folded protein(31. Protein Society of Japan Meeting) Tj ETQq1 1 0.784314 rgBT /Overlock 0.1 0<br>Butsuri, 2006, 46, S321.                                    | 0.1 | 0         |
| 156 | Unfolding mechanism of a hyperthermophilic protein O6-methylguanine-DNA methyltransferase. Biophysical Chemistry, 2005, 116, 97-104.  | 2.8 | 6         |
| 157 | Comparative analysis of the two-step reaction catalyzed by prokaryotic and eukaryotic phytochelatin synthase by an ion-pair liquid chromatography assay. Planta, 2005, 222, 181-191.  | 3.2 | 42        |
| 158 | Stretched-Exponential Analysis of Heat-Induced Aggregation of Apo-Concanavalin A. Protein Journal, 2005, 24, 193-199.   | 1.6 | 8         |
| 159 | Diamines prevent thermal aggregation and inactivation of lysozyme. Journal of Bioscience and Bioengineering, 2005, 100, 556-561.  | 2.2 | 42        |
| 160 | A Second Lysine-Specific Serine Protease from Lysobacter sp. Strain IB-9374. Journal of Bacteriology, 2004, 186, 5093-5100.   | 2.2 | 16        |
| 161 | Mutational Effects on O6-Methylguanine-DNA Methyltransferase from Hyperthermophile: Contribution of Ion-Pair Network to Protein Thermostability. Journal of Biochemistry, 2004, 135, 525-532.   | 1.7 | 10        |
| 162 | Equilibrium and Kinetic Stability of a Hyperthermophilic Protein, O6-Methylguanine-DNA Methyltransferase under Various Extreme Conditions. Journal of Biochemistry, 2004, 136, 503-508.   | 1.7 | 6         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 163 | Arginine ethylester prevents thermal inactivation and aggregation of lysozyme. <i>FEBS Journal</i> , 2004, 271, 3242-3247.   | 0.2 | 75        |
| 164 | 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        |
| 165 | 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         |
| 166 | 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        |
| 167 | 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        |
| 168 | Characterization of phytochelatin synthase-like protein encoded by <i>alr0975</i> from a prokaryote, <i>Nostoc</i> sp. PCC 7120. <i>Biochemical and Biophysical Research Communications</i> , 2004, 315, 751-755.                          | 2.1 | 65        |
| 169 | Small Molecular Additives to Prevent Protein Inactivation and Aggregation. <i>Seibutsu Butsuri</i> , 2004, 44, 87-90.  | 0.1 | 3         |
| 170 | Dissolution of protein aggregation by small amine compounds. <i>Science and Technology of Advanced Materials</i> , 2003, 4, 55-59.   | 6.1 | 27        |
| 171 | Prevention of thermal inactivation and aggregation of lysozyme by polyamines. <i>FEBS Journal</i> , 2003, 270, 4547-4554.  | 0.2 | 119       |
| 172 | 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         |
| 173 | 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        |
| 174 | Biophysical Effect of Amino Acids on the Prevention of Protein Aggregation. <i>Journal of Biochemistry</i> , 2002, 132, 591-595.   | 1.7 | 236       |
| 175 | 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        |
| 176 | Electrostatic role of aromatic ring stacking in the pH-sensitive modulation of a chymotrypsin-type serine protease, <i>Achromobacter</i> protease. <i>FEBS Journal</i> , 2002, 269, 4152-4158.   | 0.2 | 19        |
| 177 | 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         |
| 178 | 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        |
| 179 | Conformational Stability of a Hyperthermophilic Protein in Various Conditions for Denaturation. <i>Electrochemistry</i> , 2001, 69, 949-952.   | 1.4 | 8         |
| 180 | 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        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 181 | Trifluoroethanol-induced Stabilization of the $\alpha$ -Helical Structure of $\beta^2$ -Lactoglobulin: Implication for Non-hierarchical Protein Folding. <i>Journal of Molecular Biology</i> , 1995, 245, 180-194. | 4.2 | 451       |