

# Tomoyasu Aizawa

## List of Publications by Year in descending order

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97  
papers

2,166  
citations

201674

27  
h-index

289244

40  
g-index

97  
all docs

97  
docs citations

97  
times ranked

2723  
citing authors

#	ARTICLE	IF	CITATIONS
1	Potent bactericidal activity of reduced cryptdin-4 derived from its hydrophobicity and mediated by bacterial membrane disruption. <i>Amino Acids</i> , 2022, 54, 289-297.	2.7	4
2	<i>Capsicum</i> Allergy: Involvement of Cap a 7, a New Clinically Relevant Gibberellin-Regulated Protein Cross-Reactive With Cry j 7, the Gibberellin-Regulated Protein From Japanese Cedar Pollen. <i>Allergy, Asthma and Immunology Research</i> , 2022, 14, 328.	2.9	11
3	Japanese cedar pollinosis and fruit allergy caused by GRPs. <i>Nihon Shoni Alerugi Gakkaishi the Japanese Journal of Pediatric Allergy and Clinical Immunology</i> , 2022, 36, 157-162.	0.2	0
4	Gibberellin-Regulated protein sensitization in Japanese cedar (<i>Cryptomeria japonica</i>) pollen allergic Japanese cohorts. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 2297-2302.	5.7	19
5	Decrease of $\Gamma\pm$ -defensin impairs intestinal metabolite homeostasis via dysbiosis in mouse chronic social defeat stress model. <i>Scientific Reports</i> , 2021, 11, 9915.	3.3	28
6	<i>Cordyceps militaris</i> Fruit Body Extract Decreases Testosterone Catabolism and Testosterone-Stimulated Prostate Hypertrophy. <i>Nutrients</i> , 2021, 13, 50.	4.1	12
7	Dynamic Associations of Milk Components With the Infant Gut Microbiome and Fecal Metabolites in a Mother-Infant Model by Microbiome, NMR Metabolomic, and Time-Series Clustering Analyses. <i>Frontiers in Nutrition</i> , 2021, 8, 813690.	3.7	7
8	Biophysical research in Hokkaido University, Japan. <i>Biophysical Reviews</i> , 2020, 12, 233-236.	3.2	3
9	Bactericidal effect of cationic hydrogels prepared from hydrophilic polymers. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49583.	2.6	3
10	Direct Detection of the Substrate Uptake and Release Reactions of the Light-Driven Sodium-Pump Rhodopsin. <i>Journal of the American Chemical Society</i> , 2020, 142, 16023-16030.	13.7	17
11	Disease progression-associated alterations in fecal metabolites in SAMP1/YitFc mice, a Crohn's disease model. <i>Metabolomics</i> , 2020, 16, 48.	3.0	11
12	Functional importance of the oligomer formation of the cyanobacterial H <sup>+</sup> pump Gloeobacter rhodopsin. <i>Scientific Reports</i> , 2019, 9, 10711.	3.3	17
13	Photochemical study of a cyanobacterial chloride-ion pumping rhodopsin. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 136-146.	1.0	14
14	The subtype of Cupressaceae pollinosis associated with Pru p 7 sensitization is characterized by a sensitization to a cross-reactive gibberellin-Regulated protein in cypress pollen: BP 14. <i>Clinical and Experimental Allergy</i> , 2019, 49, 1163-1166.	2.9	16
15	Pollen/Fruit Syndrome: Clinical Relevance of the Cypress Pollen Allergenic Gibberellin-Regulated Protein. <i>Allergy, Asthma and Immunology Research</i> , 2019, 11, 143.	2.9	34
16	A new allergen family involved in pollen food-associated syndrome: Snakin/gibberellin-regulated proteins. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 411-414.e4.	2.9	59
17	Implications for the impairment of the rapid channel closing of <i>Proteomonas sulcata</i> anion channelrhodopsin 1 at high Cl <sup>-</sup> concentrations. <i>Scientific Reports</i> , 2018, 8, 13445.	3.3	3
18	Enhanced expression of cysteine-rich antimicrobial peptide snakin-1 in <i>Escherichia coli</i> using an aggregation-prone protein coexpression system. <i>Biotechnology Progress</i> , 2017, 33, 1520-1528.	2.6	10

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19	R-Spondin1 expands Paneth cells and prevents dysbiosis induced by graft-versus-host disease. <i>Journal of Experimental Medicine</i> , 2017, 214, 3507-3518.	8.5	96
20	Lipopolysaccharide-bound structure of the antimicrobial peptide cecropin P1 determined by nuclear magnetic resonance spectroscopy. <i>Journal of Peptide Science</i> , 2016, 22, 214-221.	1.4	21
21	<i>In vivo</i> fluorescence correlation spectroscopy analyses of FMBP, a silkworm transcription factor. <i>FEBS Open Bio</i> , 2016, 6, 106-125.	2.3	16
22	Photochemical characterization of actinorhodopsin and its functional existence in the natural host. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 1900-1908.	1.0	17
23	Overexpression of Antimicrobial, Anticancer, and Transmembrane Peptides in <i>Escherichia coli</i> through a Calmodulin-Peptide Fusion System. <i>Journal of the American Chemical Society</i> , 2016, 138, 11318-11326.	13.7	67
24	Structure determination of uniformly <sup>13</sup> C, <sup>15</sup> N labeled protein using qualitative distance restraints from MAS solid-state <sup>13</sup> C-NMR observed paramagnetic relaxation enhancement. <i>Journal of Biomolecular NMR</i> , 2016, 64, 87-101.	2.8	25
25	Expression, purification and characterization of the recombinant cysteine-rich antimicrobial peptide snakin-1 in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2016, 122, 15-22.	1.3	46
26	Proteins causing membrane fouling in membrane bioreactors. <i>Water Science and Technology</i> , 2015, 72, 844-849.	2.5	7
27	Probing the Cl <sup>-</sup> -pumping photocycle of pharaonis halorhodopsin: Examinations with bacterioruberin, an intrinsic dye, and membrane potential-induced modulation of the photocycle. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 748-758.	1.0	23
28	Efficient production of a correctly folded mouse Î±-defensin, cryptdin-4, by refolding during inclusion body solubilization. <i>Protein Expression and Purification</i> , 2015, 112, 21-28.	1.3	9
29	Interaction between tachyplesin I, an antimicrobial peptide derived from horseshoe crab, and lipopolysaccharide. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 527-534.	2.3	64
30	Development of a novel multiplex lateral flow assay using an antimicrobial peptide for the detection of Shiga toxin-producing <i>Escherichia coli</i> . <i>Journal of Microbiological Methods</i> , 2013, 93, 251-256.	1.6	44
31	Molecular Mechanisms of the Cytotoxicity of Human Î±-Lactalbumin Made Lethal to Tumor Cells (HAMLET) and Other Protein-Oleic Acid Complexes. <i>Journal of Biological Chemistry</i> , 2013, 288, 14408-14416.	3.4	46
32	Overexpression of an antimicrobial peptide derived from <i>C. elegans</i> using an aggregation-prone protein coexpression system. <i>AMB Express</i> , 2013, 3, 45.	3.0	7
33	Role of Thr218 in the Light-Driven Anion Pump Halorhodopsin from <i>Natronomonas pharaonis</i> . <i>Biochemistry</i> , 2013, 52, 9257-9268.	2.5	15
34	A new approach to detect small peptides clearly and sensitively by Western blotting using a vacuum-assisted detection method. <i>Biophysics (Nagoya-shi, Japan)</i> , 2013, 9, 79-83.	0.4	6
35	Role of S-Palmitoylation on IFITM5 for the Interaction with FKBP11 in Osteoblast Cells. <i>PLoS ONE</i> , 2013, 8, e75831.	2.5	27
36	Homotrimer Formation and Dissociation of pharaonis Halorhodopsin in Detergent System. <i>Biophysical Journal</i> , 2012, 102, 2906-2915.	0.5	17

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37	Identification of proteins involved in membrane fouling in membrane bioreactors (MBRs) treating municipal wastewater. <i>International Biodeterioration and Biodegradation</i> , 2012, 75, 15-22.	3.9	30
38	Structural Characterization of a Trapped Folding Intermediate of Pyrrolidone Carboxyl Peptidase from a Hyperthermophile. <i>Biochemistry</i> , 2012, 51, 6089-6096.	2.5	3
39	Expression of salinarum halorhodopsin in <i>Escherichia coli</i> cells: Solubilization in the presence of retinal yields the natural state. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2905-2912.	2.6	19
40	The Structure of <i>Physarum polycephalum</i> Hemagglutinin I Suggests a Minimal Carbohydrate Recognition Domain of Legume Lectin Fold. <i>Journal of Molecular Biology</i> , 2011, 405, 560-569.	4.2	4
41	Polyglutamine tract-binding protein-1 binds to U5-15kD via a continuous 23-residue segment of the C-terminal domain. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 1500-1507.	2.3	15
42	Structure-activity relationship of a novel pentapeptide with cancer cell growth-inhibitory activity. <i>Journal of Peptide Science</i> , 2010, 16, 242-248.	1.4	4
43	STPR, a 23-Amino Acid Tandem Repeat Domain, Found in the Human Function-Unknown Protein ZNF821. <i>Biochemistry</i> , 2010, 49, 8367-8375.	2.5	8
44	Development of an injectable chitosan/marine collagen composite gel. <i>Biomedical Materials (Bristol)</i> , 2010, 5, 065009.	3.3	17
45	C-terminal Elongation of Growth-blocking Peptide Enhances Its Biological Activity and Micelle Binding Affinity. <i>Journal of Biological Chemistry</i> , 2009, 284, 29625-29634.	3.4	4
46	DNA-Binding Property of the Novel DNA-Binding Domain STPR in FMBP-1 of the Silkworm <i>Bombyx mori</i> . <i>Journal of Biochemistry</i> , 2009, 146, 103-111.	1.7	9
47	A Novel Peptide Mediates Aggregation and Migration of Hemocytes from an Insect. <i>Current Biology</i> , 2009, 19, 779-785.	3.9	34
48	X-ray crystallography and structural stability of digestive lysozyme from cow stomach. <i>FEBS Journal</i> , 2009, 276, 2192-2200.	4.7	13
49	Halorhodopsin from <i>Natronomonas pharaonis</i> Forms a Trimer Even in the Presence of a Detergent, Dodecyl- $\alpha$ -maltoside. <i>Photochemistry and Photobiology</i> , 2009, 85, 130-136.	2.5	29
50	Role of Arg123 in Light-driven Anion Pump Mechanisms of <i>pharaonis</i> Halorhodopsin. <i>Photochemistry and Photobiology</i> , 2009, 85, 547-555.	2.5	14
51	Polyglutamine tract binding protein-1 is an intrinsically unstructured protein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 936-943.	2.3	22
52	Effect of Chloride Binding on the Thermal Trimer-Monomer Conversion of Halorhodopsin in the Solubilized System. <i>Biochemistry</i> , 2009, 48, 12089-12095.	2.5	11
53	A Novel $\beta$ -Defensin Structure: Big Defensin Changes Its N-Terminal Structure To Associate with the Target Membrane. <i>Biochemistry</i> , 2009, 48, 7629-7635.	2.5	22
54	Unfolding and aggregation of transthyretin by the truncation of 50 N-terminal amino acids. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 261-269.	2.6	16

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55	Spontaneous asparaginyl deamidation of canine milk lysozyme under mild conditions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 313-322.	2.6	8
56	Structural properties of the DNA-bound form of a novel tandem repeat DNA-binding domain, STPR. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 414-426.	2.6	8
57	The structure of S100A11 fragment explains a local structural change induced by phosphorylation. <i>Journal of Peptide Science</i> , 2008, 14, 1129-1138.	1.4	4
58	Enhanced nerve regeneration through a bilayered chitosan tube: The effect of introduction of glycine spacer into the CYIGSR sequence. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 85A, 919-928.	4.0	82
59	A Novel $\beta$ -Defensin Structure: A Potential Strategy of Big Defensin for Overcoming Resistance by Gram-Positive Bacteria. <i>Biochemistry</i> , 2008, 47, 10611-10619.	2.5	43
60	Heat-treatment method for producing fatty acid-bound alpha-lactalbumin that induces tumor cell death. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 211-214.	2.1	69
61	Crystal Structure of Cel44A, a Glycoside Hydrolase Family 44 Endoglucanase from <i>Clostridium thermocellum</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 35703-35711.	3.4	43
62	The Structure of a Novel Insect Peptide Explains Its $Ca^{2+}$ Channel Blocking and Antifungal Activities. <i>Biochemistry</i> , 2007, 46, 13733-13741.	2.5	34
63	Structural Approach to a Novel Tandem Repeat DNA-Binding Domain, STPR, by CD and NMR. <i>Biochemistry</i> , 2007, 46, 1703-1713.	2.5	9
64	Equilibrium and Kinetics of the Folding and Unfolding of Canine Milk Lysozyme. <i>Biochemistry</i> , 2007, 46, 5238-5251.	2.5	16
65	The solution structure of horseshoe crab antimicrobial peptide tachystatin B with an inhibitory cystine-knot motif. <i>Journal of Peptide Science</i> , 2007, 13, 269-279.	1.4	23
66	A Novel N14Y Mutation in Connexin26 in Keratitis-Ichthyosis-Deafness Syndrome. <i>American Journal of Pathology</i> , 2006, 169, 416-423.	3.8	44
67	Preparation and Observation of Fresh-frozen Sections of the Green Fluorescent Protein Transgenic Mouse Head. <i>Acta Histochemica Et Cytochemica</i> , 2006, 39, 31-34.	1.6	3
68	Destabilization of transthyretin by pathogenic mutations in the DE loop. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 66, 716-725.	2.6	17
69	Differential Scanning Calorimetry of a Metalloprotein under Controlled Metal Ion Activity. <i>Protein Journal</i> , 2006, 25, 475-482.	1.6	0
70	N-Terminal Mutational Analysis of the Interaction Between Growth-Blocking Peptide (GBP) and Receptor of Insect Immune Cells. <i>Protein and Peptide Letters</i> , 2006, 13, 815-822.	0.9	2
71	Interaction of dopamine and acetylcholine with an amphiphilic resorcinarene receptor in aqueous micelle system. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 1367-1370.	2.2	26
72	Effects of the stabilization of the molten globule state on the folding mechanism of $\beta$ -lactalbumin: A study of a chimera of bovine and human $\beta$ -lactalbumin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 61, 356-365.	2.6	5

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73	Peptide mimics of epidermal growth factor (EGF) with antagonistic activity. <i>Journal of Biotechnology</i> , 2005, 116, 211-219.	3.8	16
74	Role of Putative Anion-Binding Sites in Cytoplasmic and Extracellular Channels of <i>Natronomonas pharaonis</i> Halorhodopsin. <i>Biochemistry</i> , 2005, 44, 4775-4784.	2.5	70
75	Disassembling and Bleaching of Chloride-Free <i>Natronomonas pharaonis</i> Halorhodopsin by Octyl- $\beta$ -D-glucoside. <i>Biochemistry</i> , 2005, 44, 12923-12931.	2.5	10
76	The Gly-Gly Linker Region of the Insect Cytokine Growth-blocking Peptide Is Essential for Activity. <i>Journal of Biological Chemistry</i> , 2004, 279, 51331-51337.	3.4	6
77	A Non-Native $\alpha$ -Helix Is Formed in the $\beta$ -Sheet Region of the Molten Globule State of Canine Milk Lysozyme. <i>Protein Journal</i> , 2004, 23, 335-342.	1.6	7
78	Effect of hydrostatic pressure on conformational changes of canine milk lysozyme between the native, molten globule, and unfolded states. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1702, 129-136.	2.3	4
79	Volumetric Behavior of the Molten Globule State of Canine Milk Lysozyme. <i>Protein and Peptide Letters</i> , 2004, 11, 325-330.	0.9	0
80	Solution structure of epiregulin and the effect of its C-terminal domain for receptor binding affinity. <i>FEBS Letters</i> , 2003, 553, 232-238.	2.8	16
81	Structure determination and conformational change induced by tyrosine phosphorylation of the N-terminal domain of the $\alpha$ -chain of pig gastric H <sup>+</sup> /K <sup>+</sup> -ATPase. <i>Biochemical and Biophysical Research Communications</i> , 2003, 300, 223-229.	2.1	16
82	Roles of Aromatic Residues in the Structure and Biological Activity of the Small Cytokine, Growth-blocking Peptide (GBP). <i>Journal of Biological Chemistry</i> , 2003, 278, 10778-10783.	3.4	6
83	Production and characterization of recombinant tachycitin, the Cys-rich chitin-binding protein. <i>Protein Engineering, Design and Selection</i> , 2002, 15, 763-769.	2.1	10
84	abf-1 and abf-2, ASABF-type antimicrobial peptide genes in <i>Caenorhabditis elegans</i> . <i>Biochemical Journal</i> , 2002, 361, 221.	3.7	85
85	abf-1 and abf-2, ASABF-type antimicrobial peptide genes in <i>Caenorhabditis elegans</i> . <i>Biochemical Journal</i> , 2002, 361, 221-230.	3.7	104
86	Structural Analysis of an Insect Lysozyme Exhibiting Catalytic Efficiency at Low Temperatures. <i>Biochemistry</i> , 2002, 41, 12086-12092.	2.5	28
87	Solution structure of betacellulin, a new member of EGF-family ligands. <i>Biochemical and Biophysical Research Communications</i> , 2002, 294, 1040-1046.	2.1	18
88	Expression and purification of a small cytokine growth-blocking peptide from armyworm <i>Pseudaletia separata</i> by an optimized fermentation method using the methylotrophic yeast <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2002, 25, 416-425.	1.3	33
89	Solution structure of paralytic peptide of silkworm, <i>Bombyx mori</i> . <i>Peptides</i> , 2002, 23, 2111-2116.	2.4	23
90	Thermal stability and enzymatic activity of a smaller lysozyme from silk moth ( <i>Bombyx mori</i> ). <i>The Protein Journal</i> , 2001, 20, 107-113.	1.1	11

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91	Structure and Activity of the Insect Cytokine Growth-blocking Peptide. Journal of Biological Chemistry, 2001, 276, 31813-31818.	3.4	38
92	Construction of an expression system of insect lysozyme lacking thermal stability: the effect of selection of signal sequence on level of expression in the Pichia pastoris expression system. Protein Engineering, Design and Selection, 2001, 14, 705-710.	2.1	36
93	In Vitro Antimicrobial Properties of Recombinant ASABF, an Antimicrobial Peptide Isolated from the Nematode Ascaris suum. Antimicrobial Agents and Chemotherapy, 2000, 44, 2701-2705.	3.2	27
94	Solution Structure of an Insect Growth Factor, Growth-blocking Peptide. Journal of Biological Chemistry, 1999, 274, 1887-1890.	3.4	34
95	Contributory presentations/posters. Journal of Biosciences, 1999, 24, 33-198.	1.1	0
96	Identification of Protein Adsorbing Site onto Solid Surface Using Hydrogen-Deuterium Exchange Labeling.. Seibutsu Butsuri, 1999, 39, 109-112.	0.1	0
97	Adsorption of human lysozyme onto hydroxyapatite. FEBS Letters, 1998, 422, 175-178.	2.8	37