

# Shyh-Horng Chiou

## List of Publications by Year in descending order

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83  
papers

2,164  
citations

218381

26  
h-index

264894

42  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1938  
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA- and Protein-Scission Activities of Ascorbate in the Presence of Copper Ion and a Copper-Peptide Complex. <i>Journal of Biochemistry</i> , 1983, 94, 1259-1267.	0.9	153
2	The antioxidant protein alkylhydroperoxide reductase of <i>Helicobacter pylori</i> switches from a peroxide reductase to a molecular chaperone function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2552-2557.	3.3	134
3	Rapid hydrolysis of proteins and peptides by means of microwave technology and its application to amino acid analysis. <i>International Journal of Peptide and Protein Research</i> , 1987, 30, 572-576.	0.1	89
4	Peptide and protein hydrolysis by microwave irradiation. <i>Biomedical Applications</i> , 1989, 491, 424-431.	1.7	79
5	Simplified protein hydrolysis with methanesulphonic acid at elevated temperature for the complete amino acid analysis of proteins. <i>Journal of Chromatography A</i> , 1988, 448, 404-410.	1.8	78
6	ISOLATION AND PHYSICAL CHARACTERIZATION OF BOVINE LENS CRYSTALLINS. <i>International Journal of Peptide and Protein Research</i> , 1979, 13, 409-417.	0.1	74
7	Physicochemical Characterization of a Crystallin from the Squid Lens and Its Comparison with Vertebrate Lens Crystallins. <i>Journal of Biochemistry</i> , 1984, 95, 75-82.	0.9	59
8	Preparative scale organic synthesis using a kitchen microwave oven. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 807.	2.0	58
9	The lifespan-promoting effect of acetic acid and Reishi polysaccharide. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 7831-7840.	1.4	56
10	Enhancement of Chemical Reactions by Microwave Irradiation. <i>Journal of the Chinese Chemical Society</i> , 1991, 38, 85-91.	0.8	50
11	DNA-Scission Activities of Ascorbate in the Presence of Metal Chelates1. <i>Journal of Biochemistry</i> , 1984, 96, 1307-1310.	0.9	48
12	Characterization of Three Endogenous Peptide Inhibitors for Multiple Metalloproteinases with Fibrinolytic Activity from the Venom of Taiwan Habu ( <i>Trimeresurus mucrosquamatus</i> ). <i>Biochemical and Biophysical Research Communications</i> , 1998, 248, 562-568.	1.0	46
13	Proteomic analysis of upregulated proteins in <i>Helicobacter pylori</i> under oxidative stress induced by hydrogen peroxide. <i>Kaohsiung Journal of Medical Sciences</i> , 2011, 27, 544-553.	0.8	46
14	Proteomic analysis of proteins expressed by <i>Helicobacter pylori</i> under oxidative stress. <i>Proteomics</i> , 2005, 5, 3895-3901.	1.3	42
15	Effect of Heat-Induced Structural Perturbation of Secondary and Tertiary Structures on the Chaperone Activity of $\beta$ -Crystallin. <i>Biochemical and Biophysical Research Communications</i> , 1997, 237, 277-282.	1.0	37
16	Characterization of a Novel Allergen, a Major IgE-Binding Protein from <i>Aspergillus flavus</i> , as an Alkaline Serine Protease. <i>Biochemical and Biophysical Research Communications</i> , 1999, 261, 669-675.	1.0	37
17	Crystal structure of a platelet-agglutinating factor isolated from the venom of Taiwan habu ( <i>Trimeresurus mucrosquamatus</i> ). <i>Biochemical Journal</i> , 2004, 378, 399-407.	1.7	35
18	Determinants of the inhibition of a Taiwan habu venom metalloproteinase by its endogenous inhibitors revealed by X-ray crystallography and synthetic inhibitor analogues. <i>FEBS Journal</i> , 2002, 269, 3047-3056.	0.2	34

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19	Study of Structure-Activity Correlation in Destruxins, a Class of Cyclodepsipeptides Possessing Suppressive Effect on the Generation of Hepatitis B Virus Surface Antigen in Human Hepatoma Cells. <i>Biochemical and Biophysical Research Communications</i> , 1996, 229, 65-72.	1.0	33
20	Onco-proteogenomics identifies urinary S100A9 and GRN as potential combinatorial biomarkers for early diagnosis of hepatocellular carcinoma. <i>BBA Clinical</i> , 2015, 3, 205-213.	4.1	33
21	Physiological Role of the Association Complexes of $\alpha$ -Crystallin and Its Substrates on the Chaperone Activity. <i>Biochemical and Biophysical Research Communications</i> , 1998, 244, 379-383.	1.0	32
22	Evaluation of commonly used electrophoretic methods for the analysis of proteins and peptides and their application to biotechnology. <i>Analytica Chimica Acta</i> , 1999, 383, 47-60.	2.6	32
23	Clinical proteomics: Current status, challenges, and future perspectives. <i>Kaohsiung Journal of Medical Sciences</i> , 2011, 27, 1-14.	0.8	32
24	Phylogenetic comparison of lens crystallins from the vertebrate and invertebrate - convergent or divergent evolution?. <i>FEBS Letters</i> , 1986, 201, 69-73.	1.3	30
25	$\alpha$ -Crystallin acting as a molecular chaperonin against photodamage by UV irradiation. <i>The Protein Journal</i> , 1997, 16, 283-289.	1.1	28
26	Proteomic identification of biomarkers related to <i>Helicobacter pylori</i> -associated gastroduodenal disease: Challenges and opportunities. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2008, 23, 1657-1661.	1.4	28
27	Specific peptide-bond cleavage by microwave irradiation in weak acid solution. <i>The Protein Journal</i> , 1992, 11, 45-50.	1.1	27
28	Carp gamma-crystallins with high methionine content: Cloning and sequencing of the complementary DNA. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1988, 951, 226-229.	2.4	26
29	Characterization of $\beta$ -crystallin from the eye lens of bullfrog: Complexity of $\beta$ -crystallin multigene family as revealed by sequence comparison among different amphibian species. <i>The Protein Journal</i> , 1996, 15, 103-113.	1.1	25
30	Distinct roles of $\alpha$ - and $\beta$ -crystallins under thermal and UV stresses. <i>Biochemical and Biophysical Research Communications</i> , 2002, 295, 854-861.	1.0	25
31	The 1.35 Å structure of cadmium-substituted TM-3, a snake-venom metalloproteinase from Taiwan habu: elucidation of a TNF-converting enzyme-like active-site structure with a distorted octahedral geometry of cadmium. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1118-1128.	2.5	25
32	Characterization of lens crystallins and their mRNA from the carp lenses. <i>BBA - Proteins and Proteomics</i> , 1986, 871, 324-328.	2.1	24
33	$\beta$ -Crystallin in clear cell renal cell carcinoma: Tumor progression and prognostic significance. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2013, 31, 1367-1377.	0.8	24
34	Clinical Proteomics Identifies Urinary CD14 as a Potential Biomarker for Diagnosis of Stable Coronary Artery Disease. <i>PLoS ONE</i> , 2015, 10, e0117169.	1.1	24
35	Fibrinolytic Proteases Isolated from the Snake Venom of Taiwan Habu: Serine Proteases with Kallikrein-like and Angiotensin-Degrading Activities. <i>Biochemical and Biophysical Research Communications</i> , 2001, 281, 1012-1018.	1.0	23
36	Characterization, Cloning, and Expression of Porcine $\beta$ Crystallin. <i>Biochemical and Biophysical Research Communications</i> , 1998, 244, 131-137.	1.0	21

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37	Biochemical comparison of $\hat{\Gamma}^3$ -crystallins from duck and frog eye lenses. <i>FEBS Letters</i> , 1986, 196, 219-222.	1.3	20
38	C-terminal lysine truncation increases thermostability and enhances chaperone-like function of porcine $\hat{\Gamma}^B$ -crystallin. <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 309-316.	1.0	20
39	Analysis of lifespan-promoting effect of garlic extract by an integrated metabolo-proteomics approach. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 808-817.	1.9	20
40	Phosphoproteomics characterization of novel phosphorylated sites of lens proteins from normal and cataractous human eye lenses. <i>Molecular Vision</i> , 2011, 17, 186-98.	1.1	20
41	Chemical mechanism of the endogenous argininosuccinate lyase activity of duck lens $\hat{\Gamma}^2$ -crystallin. <i>Biochemical Journal</i> , 1998, 333, 327-334.	1.7	19
42	Characterization of Pen n 13, a Major Allergen from the Mold <i>Penicillium notatum</i> . <i>Biochemical and Biophysical Research Communications</i> , 2000, 269, 14-20.	1.0	19
43	Alkylhydroperoxide reductase of <i>Helicobacter pylori</i> as a biomarker for gastric patients with different pathological manifestations. <i>Biochimie</i> , 2011, 93, 1115-1123.	1.3	19
44	The amino-terminal sequences of four major carp $\hat{\Gamma}^3$ -crystallin polypeptides and their homology with frog and calf $\hat{\Gamma}^3$ -crystallins. <i>FEBS Letters</i> , 1986, 209, 107-110.	1.3	18
45	Sequence characterization of gamma-crystallins from lip shark ( <i>Chiloscyllium colax</i> ): existence of two cDNAs encoding gamma-crystallins of mammalian and teleostean classes. <i>The Protein Journal</i> , 1997, 16, 299-307.	1.1	18
46	Homology Modeling of Cephalopod Lens S-Crystallin: A Natural Mutant of Sigma-Class Glutathione Transferase with Diminished Endogenous Activity. <i>Biophysical Journal</i> , 1999, 76, 679-690.	0.2	18
47	Upregulation of a non-heme iron-containing ferritin with dual ferroxidase and DNA-binding activities in <i>Helicobacter pylori</i> under acid stress. <i>Journal of Biochemistry</i> , 2010, 147, 535-543.	0.9	18
48	Physicochemical characterization of $\hat{\Gamma}$ -crystallins from bovine lens? Hydrodynamic and biochemical properties. <i>The Protein Journal</i> , 1988, 7, 67-80.	1.1	17
49	Sequence Analysis of Four Acidic $\hat{\Gamma}^2$ -Crystallin Subunits of Amphibian Lenses: Phylogenetic Comparison between $\hat{\Gamma}^2$ - and $\hat{\Gamma}^3$ -Crystallins. <i>Biochemical and Biophysical Research Communications</i> , 1996, 221, 219-228.	1.0	17
50	Biochemical characterization of crystallins from frog lenses. <i>International Journal of Peptide and Protein Research</i> , 1987, 30, 108-116.	0.1	17
51	Quantitative Proteomic Analysis of Differentially Expressed Protein Profiles Involved in Pancreatic Ductal Adenocarcinoma. <i>Pancreas</i> , 2016, 45, 71-83.	0.5	17
52	Kinetic mechanism of the endogenous lactate dehydrogenase activity of duck $\hat{\Gamma}^u$ -crystallin. <i>Archives of Biochemistry and Biophysics</i> , 1991, 284, 285-291.	1.4	16
53	Characterization of a protease with $\hat{\Gamma}^+$ - and $\hat{\Gamma}^2$ -fibrinogenase activity from the western diamondback rattlesnake, <i>crotalus atrox</i> . <i>Biochemical and Biophysical Research Communications</i> , 1992, 187, 389-396.	1.0	15
54	Isolation and Characterization of a Novel Proteinase Inhibitor from the Snake Serum of Taiwan Habu ( <i>Trimeresurus mucrosquamatus</i> ). <i>Biochemical and Biophysical Research Communications</i> , 1999, 263, 610-616.	1.0	15

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55	Proteomic analysis and translational perspective of hepatocellular carcinoma: Identification of diagnostic protein biomarkers by an oncoâ€proteogenomics approach. Kaohsiung Journal of Medical Sciences, 2016, 32, 535-544.	0.8	15
56	Identification of in vivo phosphorylation sites of lens proteins from porcine eye lenses by a gel-free phosphoproteomics approach. Molecular Vision, 2010, 16, 294-302.	1.1	15
57	Cloning and characterization of a thermostable catfish Î±B-crystallin with chaperone-like activity at high temperatures. Experimental Eye Research, 2004, 79, 249-261.	1.2	14
58	Characterization of site-specific mutants of alkylhydroperoxide reductase with dual functionality from <i>Helicobacter pylori</i> . Journal of Biochemistry, 2010, 147, 661-669.	0.9	14
59	Clinical proteomics identifies potential biomarkers in <i>Helicobacter pylori</i> for gastrointestinal diseases. World Journal of Gastroenterology, 2014, 20, 1529.	1.4	14
60	Biochemical comparison of lens crystallins from three reptilian species. BBA - Proteins and Proteomics, 1988, 955, 1-9.	2.1	13
61	COOH-terminal truncations and site-directed mutations enhance thermostability and chaperone-like activity of porcine alphaB-crystallin. Molecular Vision, 2009, 15, 1429-44.	1.1	12
62	Comparison of Three Classes of Snake Neurotoxins by Homology Modeling and Computer Simulation Graphics. Biochemical and Biophysical Research Communications, 1999, 257, 500-510.	1.0	11
63	Predicted Secondary and Tertiary Structures of Carp Î±3-Crystallins with High Methionine Content: Role of Methionine Residues in the Protein Stability1. Journal of Biochemistry, 1992, 112, 341-344.	0.9	9
64	Biochemical characterization of crystallins from pigeon lenses: structural and sequence analysis of pigeon Î±-crystallin. BBA - Proteins and Proteomics, 1992, 1160, 317-324.	2.1	9
65	A RAPID AND NOVEL MEANS OF PROTEIN HYDROLYSIS BY MICROWAVE IRRADIATION USING TEFLON-PYREX TUBES. , 1990, , 3-10.		9
66	Kinetic comparison of caiman Î±-crystallin and authentic lactate dehydrogenases of vertebrates. The Protein Journal, 1991, 10, 161-166.	1.1	7
67	Facile synthesis of chiral 2-hydroxy acids catalyzed by a stable duck Î±-crystallin with endogenous-lactate dehydrogenase activity. FEBS Letters, 1992, 301, 219-222.	1.3	7
68	Two novel alpha-neurotoxins isolated from Taiwan cobra: sequence characterization and phylogenetic comparison of homologous neurotoxins. The Protein Journal, 1998, 17, 107-114.	1.1	7
69	The protein sequence homology of Î±-crystallins among major vertebrate classes and their DNA sequence homology to heat-shock protein genes. The Protein Journal, 1988, 7, 527-534.	1.1	5
70	Sequence analysis of pigeon Î±-crystallin gene and its deduced primary structure Comparison of avian Î±-crystallins with and without endogenous argininosuccinate lyase activity. FEBS Letters, 1992, 311, 276-280.	1.3	5
71	Characterization of Î±3S-Crystallin Isoforms from Lip Shark ( <i>Chiloscyllium colax</i> ): Evolutionary Comparison between Î±3S and Î±2/Î±3 Crystallins. Biochemical and Biophysical Research Communications, 1997, 240, 51-56.	1.0	5
72	Up-regulation of neutrophil activating protein in <i>Helicobacter pylori</i> under high-salt stress: Structural and phylogenetic comparison with bacterial iron-binding ferritins. Biochimie, 2013, 95, 1136-1145.	1.3	5

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73	Rapid Protein Hydrolysis by Microwave Irradiation Using Heat-Resistant Teflon-Pyrex Tubes. <i>Journal of the Chinese Chemical Society</i> , 1989, 36, 435-442.	0.8	4
74	Characterization of $^{35}\text{S}$ -Crystallin Isoforms from a Catfish: Evolutionary Comparison of Various $^{35}\text{S}$ , $^{35}\text{S}$ , and $^{35}\text{S}$ -Crystallins. <i>Biochemical and Biophysical Research Communications</i> , 1998, 252, 412-419.	1.0	4
75	Comparative proteomics analysis of degenerative eye lenses of nocturnal rice eel and catfish as compared to diurnal zebrafish. <i>Molecular Vision</i> , 2013, 19, 623-37.	1.1	4
76	CHARACTERIZATION OF TWO MAJOR FAMILIES OF FIBRINOGENOLYTIC PROTEASES FROM THE VENOM OF TAIWAN HABU WITH SPECIAL REFERENCE TO THEIR MEDICAL APPLICATIONS. <i>Toxin Reviews</i> , 2005, 24, 43-61.	1.5	3
77	Characterization and molecular cloning of one novel C-type lectin from the venom of Taiwan habu ( <i>Trimeresurus mucrosquamatus</i> ). <i>Toxicon</i> , 2010, 55, 762-772.	0.8	2
78	From Chemistry to Translational Medicine: The Application of Proteomics to Cancer Biomarker Discovery and Diagnosis. <i>Journal of the Chinese Chemical Society</i> , 2015, 62, 217-226.	0.8	1
79	Simple fractionation of phospholipase A2 analogues from snake venom by high-performance liquid chromatography. <i>Biomedical Applications</i> , 1990, 530, 129-136.	1.7	0
80	Structural Characterization of Lens Crystallins and the Perspectives on the Evolution and Biosynthetic Applications of Enzymatic Crystallins. <i>Journal of the Chinese Chemical Society</i> , 1992, 39, 721-730.	0.8	0
81	Purification and sequence characterization of various $\delta$ -neurotoxins from the king cobra ( <i>Ophiophagus hannah</i> ) venom. <i>The Protein Journal</i> , 1992, 11, 403-404.	1.1	0
82	Structural Characterization of Venom Toxins by Physical Methods and the Perspectives on Structure-Function Correlation of Proteins. <i>Journal of the Chinese Chemical Society</i> , 1997, 44, 337-348.	0.8	0
83	Peptide and protein hydrolysis by microwave irradiation: Kinetics and refinement of hydrolysis conditions for peptide-bond cleavage. , 1990, , 56-63.		0