Xinmiao Fu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8789996/publications.pdf

Version: 2024-02-01

68	2,239	218381	233125
papers	citations	26 h-index	45 g-index

76	76	76	2983
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biogenesis of Secretory Proteins in Eukaryotic and Prokaryotic Cells. , 2023, , 689-702.		2
2	n-Butanol Potentiates Subinhibitory Aminoglycosides against Bacterial Persisters and Multidrug-Resistant MRSA by Rapidly Enhancing Antibiotic Uptake. ACS Infectious Diseases, 2022, 8, 373-386.	1.8	10
3	Mechanosensitive Channels Mediate Hypoionic Shock-Induced Aminoglycoside Potentiation against Bacterial Persisters by Enhancing Antibiotic Uptake. Antimicrobial Agents and Chemotherapy, 2022, 66, AAC0112521.	1.4	6
4	A highâ€throughput genetically directed protein crosslinking analysis reveals the physiological relevance of the ATP synthase â€˜insertedâ€™ state. FEBS Journal, 2021, 288, 2989-3009.	2.2	10
5	Gentamicin Combined With Hypoionic Shock Rapidly Eradicates Aquaculture Bacteria in vitro and in vivo. Frontiers in Microbiology, 2021, 12, 641846.	1.5	5
6	The <scp>Caenorhabditis elegans 12â€kDa</scp> small heat shock proteins with little in vitro chaperone activity play crucial roles for its dauer formation, longevity, and reproduction. Protein Science, 2021, 30, 2170-2182.	3.1	5
7	Rapid Freezing Enables Aminoglycosides To Eradicate Bacterial Persisters via Enhancing Mechanosensitive Channel MscL-Mediated Antibiotic Uptake. MBio, 2020, 11, .	1.8	28
8	5-Methylindole Potentiates Aminoglycoside Against Gram-Positive Bacteria Including Staphylococcus aureus Persisters Under Hypoionic Conditions. Frontiers in Cellular and Infection Microbiology, 2020, 10, 84.	1.8	25
9	Wuhan and Hubei COVID-19 mortality analysis reveals the critical role of timely supply of medical resources. Journal of Infection, 2020, 81, 147-178.	1.7	75
10	Negligible risk of the COVID-19 resurgence caused by work resuming in China (outside Hubei): a statistical probability study. Journal of Public Health, 2020, 42, 651-652.	1.0	9
11	Simulating and forecasting the cumulative confirmed cases of SARS-CoV-2 in China by Boltzmann function-based regression analyses. Journal of Infection, 2020, 80, 578-606.	1.7	30
12	Global COVID-19 fatality analysis reveals Hubei-like countries potentially with severe outbreaks. Journal of Infection, 2020, 81, e87-e88.	1.7	5
13	Forecasting the cumulative number of COVID-19 deaths in China: a Boltzmann function-based modeling study. Infection Control and Hospital Epidemiology, 2020, 41, 841-843.	1.0	25
14	Development of a general logistic model for disease risk prediction using multiple SNPs. FEBS Open Bio, 2019, 9, 2006-2012.	1.0	3
15	Hypoionic Shock Facilitates Aminoglycoside Killing of Both Nutrient Shift- and Starvation-Induced Bacterial Persister Cells by Rapidly Enhancing Aminoglycoside Uptake. Frontiers in Microbiology, 2019, 10, 2028.	1.5	17
16	Biogenesis, quality control, and structural dynamics of proteins as explored in living cells via siteâ€directed photocrosslinking. Protein Science, 2019, 28, 1194-1209.	3.1	12
17	Subunit interactions as mediated by â€œnon-interfaceâ€•residues in living cells for multiple homo-oligomeric proteins. Biochemical and Biophysical Research Communications, 2019, 512, 100-105.	1.0	11
18	Large expert-curated database for benchmarking document similarity detection in biomedical literature search. Database: the Journal of Biological Databases and Curation, 2019, 2019, .	1.4	15

#	Article	IF	Citations
19	Degp degrades a wide range of substrate proteins in Escherichia coli under stress conditions. Biochemical Journal, 2019, 476, 3549-3564.	1.7	7
20	DegP functions as a critical protease for bacterial acid resistance. FEBS Journal, 2018, 285, 3525-3538.	2.2	21
21	A reciprocating motion-driven rotation mechanism for the ATP synthase. Science China Life Sciences, 2016, 59, 44-48.	2.3	2
22	A Supercomplex Spanning the Inner and Outer Membranes Mediates the Biogenesis of Î²-Barrel Outer Membrane Proteins in Bacteria. Journal of Biological Chemistry, 2016, 291, 16720-16729.	1.6	51
23	Hypoionic shock treatment enables aminoglycosides antibiotics to eradicate bacterial persisters. Scientific Reports, 2015, 5, 14247.	1.6	34
24	An oxidative fluctuation hypothesis of aging generated by imaging H2O2 levels in live Caenorhabditis elegans with altered lifespans. Biochemical and Biophysical Research Communications, 2015, 458, 896-900.	1.0	22
25	A Novel Mechanism for Small Heat Shock Proteins to Function as Molecular Chaperones. Scientific Reports, 2015, 5, 8811.	1.6	56
26	Insights into How Small Heat Shock Proteins Bind a Great Diversity of Substrate Proteins: A Super-Transformer Model. Heat Shock Proteins, 2015, , 101-117.	0.2	5
27	Abiotic Regulation: A Common Way for Proteins to Modulate their Functions. Current Protein and Peptide Science, 2015, 16, 188-195.	0.7	2
28	Multilevel structural characteristics for the natural substrate proteins of bacterial small heat shock proteins. Protein Science, 2014, 23, 229-237.	3.1	9
29	Chaperone function and mechanism of small heat-shock proteins. Acta Biochimica Et Biophysica Sinica, 2014, 46, 347-356.	0.9	51
30	A Small Heat Shock Protein Enables Escherichia coli To Grow at a Lethal Temperature of 50ÂC Conceivably by Maintaining Cell Envelope Integrity. Journal of Bacteriology, 2014, 196, 2004-2011.	1.0	43
31	Identification of FkpA as a Key Quality Control Factor for the Biogenesis of Outer Membrane Proteins under Heat Shock Conditions. Journal of Bacteriology, 2014, 196, 672-680.	1.0	31
32	Differential degradation for small heat shock proteins IbpA and IbpB is synchronized in Escherichia coli: Implications for their functional cooperation in substrate refolding. Biochemical and Biophysical Research Communications, 2014, 452, 402-407.	1.0	2
33	DegP primarily functions as a protease for the biogenesis of Î²â€barrel outer membrane proteins in the Gramâ€negative bacterium EscherichiaÂcoli. FEBS Journal, 2014, 281, 1226-1240.	2.2	65
34	In Vivo Substrate Diversity and Preference of Small Heat Shock Protein IbpB as Revealed by Using a Genetically Incorporated Photo-cross-linker. Journal of Biological Chemistry, 2013, 288, 31646-31654.	1.6	49
35	Small Heat Shock Protein IbpB Acts as a Robust Chaperone in Living Cells by Hierarchically Activating Its Multi-type Substrate-binding Residues. Journal of Biological Chemistry, 2013, 288, 11897-11906.	1.6	34
36	PDIp is a major intracellular oestrogen-storage protein that modulates tissue levels of oestrogen in the pancreas. Biochemical Journal, 2012, 447, 115-123.	1.7	2

#	Article	IF	Citations
37	Chaperone-dependent mechanisms for acid resistance in enteric bacteria. Trends in Microbiology, 2012, 20, 328-335.	3.5	96
38	Characterization of the Estradiol-Binding Site Structure of Human Pancreas-Specific Protein Disulfide Isomerase: Indispensable Role of the Hydrogen Bond between His278 and the Estradiol 3-Hydroxyl Group. Biochemistry, 2011, 50, 106-115.	1.2	16
39	A genetically incorporated crosslinker reveals chaperone cooperation in acid resistance. Nature Chemical Biology, 2011, 7, 671-677.	3.9	203
40	Small heat shock protein AgsA forms dynamic fibrils. FEBS Letters, 2011, 585, 3396-3402.	1.3	12
41	Both PDI and PDIp can attack the native disulfide bonds in thermally-unfolded RNase and form stable disulfide-linked complexes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 487-495.	1.1	2
42	Characterization of the Estradiol-Binding Site Structure of Human Protein Disulfide Isomerase (PDI). PLoS ONE, 2011, 6, e27185.	1.1	18
43	Human pancreas-specific protein disulfide-isomerase (PDIp) can function as a chaperone independently of its enzymatic activity by forming stable complexes with denatured substrate proteins. Biochemical Journal, 2010, 429, 157-169.	1.7	29
44	Pancreas-specific protein disulfide isomerase has a cell type-specific expression in various mouse tissues and is absent in human pancreatic adenocarcinoma cells: implications for its functions. Journal of Molecular Histology, 2009, 40, 189-199.	1.0	15
45	Human pancreas-specific protein disulfide isomerase homolog (PDIp) is an intracellular estrogen-binding protein that modulates estrogen levels and actions in target cells. Journal of Steroid Biochemistry and Molecular Biology, 2009, 115, 20-29.	1.2	25
46	Human pancreas-specific protein disulfide isomerase homolog (PDIp) is redox-regulated through formation of an inter-subunit disulfide bond. Archives of Biochemistry and Biophysics, 2009, 485, 1-9.	1.4	22
47	Protein disulfide isomerase is a multifunctional regulator of estrogenic status in target cells. Journal of Steroid Biochemistry and Molecular Biology, 2008, 112, 127-137.	1.2	32
48	Chemical synthesis and biochemical characterization of a biotinylated derivative of 17Î²-estradiol with a long side chain covalently attached to its C-7Î± position. Steroids, 2008, 73, 1252-1261.	0.8	8
49	An Enhancer Mutant of Arabidopsis salt overly sensitive 3 Mediates both Ion Homeostasis and the Oxidative Stress Response. Molecular and Cellular Biology, 2007, 27, 5214-5224.	1.1	127
50	Identification of bis-ANS binding sites in Mycobacterium tuberculosis small heat shock protein Hsp16.3: Evidences for a two-step substrate-binding mechanism. Biochemical and Biophysical Research Communications, 2006, 349, 167-171.	1.0	15
51	Identification of a highly conserved pro-gly doublet in non-animal small heat shock proteins and characterization of its structural and functional roles in Mycobacterium tuberculosis Hsp 16.3. Biochemistry (Moscow), 2006, 71, S83-S90.	0.7	13
52	Stepwise disassembly and apparent nonstepwise reassembly for the oligomeric RbsD protein. Protein Science, 2006, 15, 1441-1448.	3.1	10
53	Phylogenetic and Biochemical Studies Reveal a Potential Evolutionary Origin of Small Heat Shock Proteins of Animals from Bacterial Class A. Journal of Molecular Evolution, 2006, 62, 257-266.	0.8	41
54	The plasma membrane Na+/H+ antiporter SOS1 interacts with RCD1 and functions in oxidative stress tolerance in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18816-18821.	3.3	233

#	Article	IF	Citations
55	Chaperone-Like Activity of Mycobacterium tuberculosis Hsp16.3 Does Not Require Its Intact (Native) Structures. Biochemistry (Moscow), 2005, 70, 913-919.	0.7	8
56	A Dual Role for the N-terminal Region of Mycobacterium tuberculosis Hsp16.3 in Self-oligomerization and Binding Denaturing Substrate Proteins. Journal of Biological Chemistry, 2005, 280, 6337-6348.	1.6	70
57	Periplasmic Protein HdeA Exhibits Chaperone-like Activity Exclusively within Stomach pH Range by Transforming into Disordered Conformation. Journal of Biological Chemistry, 2005, 280, 27029-27034.	1.6	121
58	4,4â€²-Dianilino-1,1â€²-binaphthyl-5,5â€²-sulfonate, a novel molecule having chaperone-like activity. Biochemical and Biophysical Research Communications, 2005, 329, 1087-1093.	1.0	28
59	The association of small heat shock protein Hsp16.3 with the plasma membrane of Mycobacterium tuberculosis: Dissociation of oligomers is a prerequisite. Biochemical and Biophysical Research Communications, 2005, 330, 1055-1061.	1.0	29
60	Chaperone-like activity of Î²-casein. International Journal of Biochemistry and Cell Biology, 2005, 37, 1232-1240.	1.2	87
61	Inter-subunit Cross-linking Suppressed the Dynamic Oligomeric Dissociation of Mycobacterium tuberculosis Hsp16.3 and Reduced Its Chaperone Activity. Biochemistry (Moscow), 2004, 69, 552-557.	0.7	7
62	Temperature-dependent subunit exchange and chaperone-like activities of Hsp16.3, a small heat shock protein from Mycobacterium tuberculosis. Biochemical and Biophysical Research Communications, 2004, 316, 291-299.	1.0	48
63	Periplasmic proteins of Escherichia coli are highly resistant to aggregation: reappraisal for roles of molecular chaperones in periplasm. Biochemical and Biophysical Research Communications, 2004, 316, 795-801.	1.0	31
64	Small heat shock protein Hsp16.3 modulates its chaperone activity by adjusting the rate of oligomeric dissociation. Biochemical and Biophysical Research Communications, 2003, 310, 412-420.	1.0	39
65	Mycobacterium tuberculosis Hsp16.3 Nonamers are Assembled and Re-assembled via Trimer and Hexamer Intermediates. Journal of Molecular Biology, 2003, 326, 1013-1023.	2.0	19
66	Disulfide bonds convert small heat shock protein Hsp16.3 from a chaperone to a non-chaperone: implications for the evolution of cysteine in molecular chaperones. Biochemical and Biophysical Research Communications, 2003, 308, 627-635.	1.0	26
67	The reassembling process of the nonameric Mycobacterium tuberculosis small heat-shock protein Hsp16.3 occurs via a stepwise mechanism. Biochemical Journal, 2002, 363, 329.	1.7	8
68	The reassembling process of the nonameric Mycobacterium tuberculosis small heat-shock protein Hsp16.3 occurs via a stepwise mechanism. Biochemical Journal, 2002, 363, 329-334.	1.7	9