Aiwu Zhou

List of Publications by Year in descending order

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186265 182427 2,732 65 28 51 h-index citations g-index papers 67 67 67 3770 all docs docs citations times ranked citing authors

#	Article	lF	CITATIONS
1	How vitronectin binds PAI-1 to modulate fibrinolysis and cell migration. Nature Structural and Molecular Biology, 2003, 10, 541-544.	8.2	217
2	A redox switch in angiotensinogen modulates angiotensin release. Nature, 2010, 468, 108-111.	27.8	191
3	Structural basis of a novel PD-L1 nanobody for immune checkpoint blockade. Cell Discovery, 2017, 3, 17004.	6.7	147
4	The Serpin Inhibitory Mechanism Is Critically Dependent on the Length of the Reactive Center Loop. Journal of Biological Chemistry, 2001, 276, 27541-27547.	3.4	121
5	SENP1-Sirt3 Signaling Controls Mitochondrial Protein Acetylation and Metabolism. Molecular Cell, 2019, 75, 823-834.e5.	9.7	119
6	The a-Subunit of the V-type H+-ATPase Interacts with Phosphofructokinase-1 in Humans. Journal of Biological Chemistry, 2003, 278, 20013-20018.	3.4	106
7	Structural mechanism for the carriage and release of thyroxine in the blood. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13321-13326.	7.1	105
8	Crystal structures of two human vitronectin, urokinase and urokinase receptor complexes. Nature Structural and Molecular Biology, 2008, 15, 422-423.	8.2	103
9	Temperature-Responsive Release of Cortisol from Its Binding Globulin: A Protein Thermocouple. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 4689-4695.	3.6	98
10	A redox mechanism underlying nucleolar stress sensing by nucleophosmin. Nature Communications, 2016, 7, 13599.	12.8	94
11	Structural basis for enzymatic photocatalysis in chlorophyll biosynthesis. Nature, 2019, 574, 722-725.	27.8	88
12	How Small Peptides Block and Reverse Serpin Polymerisation. Journal of Molecular Biology, 2004, 342, 931-941.	4.2	82
13	Crystal Structures of PI3Kα Complexed with PI103 and Its Derivatives: New Directions for Inhibitors Design. ACS Medicinal Chemistry Letters, 2014, 5, 138-142.	2.8	81
14	Formation of the Antithrombin Heterodimer In Vivo and the Onset of Thrombosis. Blood, 1999, 94, 3388-3396.	1.4	76
15	How Changes in Affinity of Corticosteroid-binding Globulin Modulate Free Cortisol Concentration. Journal of Clinical Endocrinology and Metabolism, 2013, 98, 3315-3322.	3.6	68
16	Insights into Hunter syndrome from the structure of iduronate-2-sulfatase. Nature Communications, 2017, 8, 15786.	12.8	68
17	Structural basis of the therapeutic anti-PD-L1 antibody atezolizumab. Oncotarget, 2017, 8, 90215-90224.	1.8	68
18	The S-to-R Transition of Corticosteroid-Binding Globulin and the Mechanism of Hormone Release. Journal of Molecular Biology, 2008, 380, 244-251.	4.2	64

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19	Serpin Polymerization Is Prevented by a Hydrogen Bond Network That Is Centered on His-334 and Stabilized by Glycerol. Journal of Biological Chemistry, 2003, 278, 15116-15122.	3.4	62
20	Human H+ATPase a4 subunit mutations causing renal tubular acidosis reveal a role for interaction with phosphofructokinase-1. American Journal of Physiology - Renal Physiology, 2008, 295, F950-F958.	2.7	54
21	Polymerization of Plasminogen Activator Inhibitor-1. Journal of Biological Chemistry, 2001, 276, 9115-9122.	3.4	52
22	Allosteric Modulation of Hormone Release from Thyroxine and Corticosteroid-binding Globulins. Journal of Biological Chemistry, 2011, 286, 16163-16173.	3.4	45
23	Crystal structure of protein Z–dependent inhibitor complex shows how protein Z functions as a cofactor in the membrane inhibition of factor X. Blood, 2009, 114, 3662-3667.	1.4	44
24	DUSP6 SUMOylation protects cells from oxidative damage via direct regulation of Drp1 dephosphorylation. Science Advances, 2020, 6, eaaz0361.	10.3	42
25	Structural basis of a novel heterodimeric Fc for bispecific antibody production. Oncotarget, 2017, 8, 51037-51049.	1.8	41
26	Dimers Initiate and Propagate Serine Protease Inhibitor Polymerisation. Journal of Molecular Biology, 2008, 375, 36-42.	4.2	32
27	Molecular Mechanism of Z $\hat{l}\pm 1$ -Antitrypsin Deficiency. Journal of Biological Chemistry, 2016, 291, 15674-15686.	3.4	30
28	Sequential posttranslational modifications regulate PKC degradation. Molecular Biology of the Cell, 2016, 27, 410-420.	2.1	30
29	Glyceraldehyde 3-phosphate dehydrogenase is required for band 3 (anion exchanger 1) membrane residency in the mammalian kidney. American Journal of Physiology - Renal Physiology, 2011, 300, F157-F166.	2.7	25
30	Temperature-responsive release of thyroxine and its environmental adaptation in Australians. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132747.	2.6	24
31	Functional structure of the somatomedin B domain of vitronectin. Protein Science, 2007, 16, 1502-1508.	7.6	22
32	A novel "mosaic-type―nanoparticle for selective drug release targeting hypoxic cancer cells. Nanoscale, 2019, 11, 2211-2222.	5.6	22
33	Serpins show structural basis for oligomer toxicity and amyloid ubiquity. FEBS Letters, 2008, 582, 2537-2541.	2.8	21
34	Structural basis for the specificity of renin-mediated angiotensinogen cleavage. Journal of Biological Chemistry, 2019, 294, 2353-2364.	3.4	21
35	Structure of the cytochrome <i>aa</i> _{<i>3</i>} -600 heme-copper menaquinol oxidase bound to inhibitor HQNO shows TMO is part of the quinol binding site. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 872-876.	7.1	21
36	Structural basis for catalytic activation of protein Z–dependent protease inhibitor (ZPI) by protein Z. Blood, 2012, 120, 1726-1733.	1.4	19

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37	Identification of a natural inhibitor of methionine adenosyltransferase 2A regulating one-carbon metabolism in keratinocytes. EBioMedicine, 2019, 39, 575-590.	6.1	19
38	Modulation of Serpin Reaction through Stabilization of Transient Intermediate by Ligands Bound to \hat{l}_{\pm} -Helix F. Journal of Biological Chemistry, 2007, 282, 26306-26315.	3.4	16
39	Structural basis of von Willebrand factor multimerization and tubular storage. Blood, 2022, 139, 3314-3324.	1.4	15
40	Transcriptional Approach for Decoding the Mechanism of rpoC Compensatory Mutations for the Fitness Cost in Rifampicin-Resistant Mycobacterium tuberculosis. Frontiers in Microbiology, 2018, 9, 2895.	3.5	14
41	Redirection of the reaction between activated protein C and a serpin to the substrate pathway. Thrombosis Research, 2008, 122, 397-404.	1.7	13
42	Towards Engineering Hormone-Binding Globulins as Drug Delivery Agents. PLoS ONE, 2014, 9, e113402.	2.5	13
43	Probing nanosecond motions of plasminogen activator inhibitor-1 by time-resolved fluorescence anisotropy. Molecular BioSystems, 2009, 5, 1025.	2.9	12
44	Physical and Functional Links between Anion Exchanger-1 and Sodium Pump. Journal of the American Society of Nephrology: JASN, 2015, 26, 400-409.	6.1	11
45	Angiotensinogen and the Modulation of Blood Pressure. Frontiers in Cardiovascular Medicine, 2021, 8, 645123.	2.4	11
46	Heparin Binds Lamprey Angiotensinogen and Promotes Thrombin Inhibition through a Template Mechanism. Journal of Biological Chemistry, 2016, 291, 24900-24911.	3.4	9
47	Characterization of PPIB interaction in the P3H1 ternary complex and implications for its pathological mutations. Cellular and Molecular Life Sciences, 2019, 76, 3899-3914.	5.4	9
48	SUMOylation modulates the LIN28Aâ€letâ€7 signaling pathway in response to cellular stresses in cancer cells. Molecular Oncology, 2020, 14, 2288-2312.	4.6	9
49	Identification of HSP47 Binding Site on Native Collagen and Its Implications for the Development of HSP47 Inhibitors. Biomolecules, 2021, 11, 983.	4.0	9
50	Thermodynamic and Kinetic Characterization of the Protein Z-dependent Protease Inhibitor (ZPI)-Protein Z Interaction Reveals an Unexpected Role for ZPI Lys-239. Journal of Biological Chemistry, 2015, 290, 9906-9918.	3.4	8
51	14-3-3Ï,, Promotes Surface Expression of Cav2.2 (α1B) Ca2+ Channels. Journal of Biological Chemistry, 2015, 290, 2689-2698.	3.4	8
52	Identification of clinical molecular targets for childhood Burkitt lymphoma. Translational Oncology, 2020, 13, 100855.	3.7	8
53	Serpins as Hormone Carriers. Methods in Enzymology, 2011, 501, 89-103.	1.0	7
54	Kynurenine derivative 3-HAA is an agonist ligand for transcription factor YY1. Journal of Hematology and Oncology, 2021, 14, 153.	17.0	7

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55	Structure of CTLA-4 complexed with a pH-sensitive cancer immunotherapeutic antibody. Cell Discovery, 2020, 6, 79.	6.7	6
56	Solving Serpin Crystal Structures. Methods in Enzymology, 2011, 501, 49-61.	1.0	5
57	Structural mechanism of VWF D'D3 dimer formation. Cell Discovery, 2022, 8, 14.	6.7	5
58	TRPV1 SUMOylation suppresses itch by inhibiting TRPV1 interaction with H1 receptors. Cell Reports, 2022, 39, 110972.	6.4	5
59	Heparin Blocks the Inhibition of Tissue Kallikrein 1 by Kallistatin through Electrostatic Repulsion. Biomolecules, 2020, $10,828$.	4.0	4
60	Purification, crystallization, and X-ray diffraction analysis of myocyte enhancer factor 2D and DNA complex. Protein Expression and Purification, 2021, 179, 105788.	1.3	3
61	Crystallization and crystallographic studies of kallistatin. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 1135-1138.	0.8	2
62	High-level expression of active human plasminogen activator inhibitor type 1 (PAI-1) in E. coli. IUBMB Life, 1996, 39, 235-242.	3.4	1
63	Targeting a Surface Cavity of $\hat{l}\pm 1$ -Antitrypsin to Prevent Conformational Disease. Clinical Science, 2003, 104, 57P-57P.	0.0	O
64	Probing Conformational Motion of Serpin by Time-Resolved and Single Molecule Fluorescence. Biophysical Journal, 2009, 96, 377a.	0.5	0
65	Angiotensinogen adjusts its shape to complex with renin and modulate blood pressure. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s30-s30.	0.3	O