

Yan Jessie Zhang

List of Publications by Year in descending order

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69
papers

3,413
citations

218677

26
h-index

149698

56
g-index

76
all docs

76
docs citations

76
times ranked

4320
citing authors

#	ARTICLE	IF	CITATIONS
1	Systemic depletion of L-cyst(e)ine with cyst(e)inase increases reactive oxygen species and suppresses tumor growth. <i>Nature Medicine</i> , 2017, 23, 120-127.	30.7	413
2	Machine learning-aided engineering of hydrolases for PET depolymerization. <i>Nature</i> , 2022, 604, 662-667.	27.8	396
3	Complete Protein Characterization Using Top-Down Mass Spectrometry and Ultraviolet Photodissociation. <i>Journal of the American Chemical Society</i> , 2013, 135, 12646-12651.	13.7	297
4	Active Pin1 is a key target of all-trans retinoic acid in acute promyelocytic leukemia and breast cancer. <i>Nature Medicine</i> , 2015, 21, 457-466.	30.7	220
5	Structure-function-folding relationship in a WW domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10648-10653.	7.1	199
6	Death-Associated Protein Kinase 1 Phosphorylates Pin1 and Inhibits Its Prolyl Isomerase Activity and Cellular Function. <i>Molecular Cell</i> , 2011, 42, 147-159.	9.7	149
7	Structural Basis for High-Affinity Peptide Inhibition of Human Pin1. <i>ACS Chemical Biology</i> , 2007, 2, 320-328.	3.4	123
8	IgG Fc domains that bind C1q but not effector Fc γ 3 receptors delineate the importance of complement-mediated effector functions. <i>Nature Immunology</i> , 2017, 18, 889-898.	14.5	122
9	Determinants for Dephosphorylation of the RNA Polymerase II C-Terminal Domain by Scp1. <i>Molecular Cell</i> , 2006, 24, 759-770.	9.7	103
10	Characterization of Native Protein Complexes Using Ultraviolet Photodissociation Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2014, 136, 12920-12928.	13.7	102
11	Pin1 cysteine-113 oxidation inhibits its catalytic activity and cellular function in Alzheimer's disease. <i>Neurobiology of Disease</i> , 2015, 76, 13-23.	4.4	91
12	Phosphorylation induces sequence-specific conformational switches in the RNA polymerase II C-terminal domain. <i>Nature Communications</i> , 2017, 8, 15233.	12.8	70
13	Viewing serine/threonine protein phosphatases through the eyes of drug designers. <i>FEBS Journal</i> , 2013, 280, 4739-4760.	4.7	62
14	Crystal structures of apo wild-typeM. jannaschiityrosyl-tRNA synthetase (TyrRS) and an engineered TyrRS specific forO-methyl-L-tyrosine. <i>Protein Science</i> , 2005, 14, 1340-1349.	7.6	61
15	Structural and Kinetic Analysis of Prolyl-isomerization/Phosphorylation Cross-Talk in the CTD Code. <i>ACS Chemical Biology</i> , 2012, 7, 1462-1470.	3.4	59
16	Structural heterogeneity in the intrinsically disordered RNA polymerase II C-terminal domain. <i>Nature Communications</i> , 2017, 8, 15231.	12.8	58
17	Visible Light Mediated Bidirectional Control over Carbonic Anhydrase Activity in Cells and <i>in Vivo</i> Using Azobenzenesulfonamides. <i>Journal of the American Chemical Society</i> , 2020, 142, 14522-14531.	13.7	40
18	A global view of structureâ€“function relationships in the tautomerase superfamily. <i>Journal of Biological Chemistry</i> , 2018, 293, 2342-2357.	3.4	39

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19	Identification of the Formycin A Biosynthetic Gene Cluster from <i>Streptomyces kaniharaensis</i> Illustrates the Interplay between Biological Pyrazolopyrimidine Formation and <i>de Novo</i> Purine Biosynthesis. <i>Journal of the American Chemical Society</i> , 2019, 141, 6127-6131.	13.7	38
20	Selective Inactivation of a Human Neuronal Silencing Phosphatase by a Small Molecule Inhibitor. <i>ACS Chemical Biology</i> , 2011, 6, 511-519.	3.4	35
21	Crystal structure of Ssu72, an essential eukaryotic phosphatase specific for the C-terminal domain of RNA polymerase II, in complex with a transition state analogue. <i>Biochemical Journal</i> , 2011, 434, 435-444.	3.7	35
22	Using fungible biosensors to evolve improved alkaloid biosyntheses. <i>Nature Chemical Biology</i> , 2022, 18, 981-989.	8.0	35
23	Design, synthesis, and biological evaluation of simplified $\hat{\pm}$ -Keto heterocycle, trifluoromethyl ketone, and formyl substituted folate analogues as potential inhibitors of GAR transformylase and AICAR transformylase. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 4487-4501.	3.0	34
24	Structural and functional analysis of the phosphoryl transfer reaction mediated by the human small C-terminal domain phosphatase, Scp1. <i>Protein Science</i> , 2010, 19, 974-986.	7.6	34
25	Snapshots of C-S Cleavage in Egt2 Reveals Substrate Specificity and Reaction Mechanism. <i>Cell Chemical Biology</i> , 2018, 25, 519-529.e4.	5.2	29
26	Dephosphorylating eukaryotic RNA polymerase II. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 372-387.	2.3	28
27	Enzyme-mediated depletion of serum <i>scp</i> -Met abrogates prostate cancer growth via multiple mechanisms without evidence of systemic toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13000-13011.	7.1	27
28	Novel Modifications on C-terminal Domain of RNA Polymerase II Can Fine-tune the Phosphatase Activity of Ssu72. <i>ACS Chemical Biology</i> , 2013, 8, 2042-2052.	3.4	25
29	Mapping the Phosphorylation Pattern of <i>Drosophila melanogaster</i> RNA Polymerase II Carboxyl-Terminal Domain Using Ultraviolet Photodissociation Mass Spectrometry. <i>ACS Chemical Biology</i> , 2017, 12, 153-162.	3.4	24
30	Tyr1 phosphorylation promotes phosphorylation of Ser2 on the C-terminal domain of eukaryotic RNA polymerase II by P-TEFb. <i>ELife</i> , 2019, 8, .	6.0	24
31	Chemical Tools To Decipher Regulation of Phosphatases by Proline Isomerization on Eukaryotic RNA Polymerase II. <i>ACS Chemical Biology</i> , 2015, 10, 2405-2414.	3.4	22
32	Uncoupling Intramolecular Processing and Substrate Hydrolysis in the N-Terminal Nucleophile Hydrolase hASRGL1 by Circular Permutation. <i>ACS Chemical Biology</i> , 2012, 7, 1840-1847.	3.4	18
33	Crystal Structure of the Ergothioneine Sulfoxide Synthase from <i>Candidatus Chloracidobacterium thermophilum</i> and Structure-Guided Engineering To Modulate Its Substrate Selectivity. <i>ACS Catalysis</i> , 2019, 9, 6955-6961.	11.2	18
34	Kinetic, Crystallographic, and Mechanistic Characterization of TomN: Elucidation of a Function for a 4-Oxalocrotonate Tautomerase Homologue in the Tomaymycin Biosynthetic Pathway. <i>Biochemistry</i> , 2011, 50, 7600-7611.	2.5	17
35	Structure of <i>Saccharomyces cerevisiae</i> Rtr1 reveals an active site for an atypical phosphatase. <i>Science Signaling</i> , 2016, 9, ra24.	3.6	17
36	10-Formyl-5,10-dideaza-acyclic-5,6,7,8-tetrahydrofolic acid (10-Formyl-DDACTHF). <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 2739-2749.	3.0	16

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37	Design, synthesis and biological evaluation of 10-CF ₃ CO-DDACTHF analogues and derivatives as inhibitors of GAR Tfase and the de novo purine biosynthetic pathway. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 4511-4521.	3.0	16
38	Simplicity is the Ultimate Sophistication—Crosstalk of Post-translational Modifications on the RNA Polymerase II. <i>Journal of Molecular Biology</i> , 2021, 433, 166912.	4.2	16
39	Phosphatase activity of small C-terminal domain phosphatase 1 (SCP1) controls the stability of the key neuronal regulator RE1-silencing transcription factor (REST). <i>Journal of Biological Chemistry</i> , 2018, 293, 16851-16861.	3.4	14
40	The protein phosphatase PPM1A dephosphorylates and activates YAP to govern mammalian intestinal and liver regeneration. <i>PLoS Biology</i> , 2021, 19, e3001122.	5.6	13
41	A potent and selective inhibitor for the UBLCP1 proteasome phosphatase. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 2798-2809.	3.0	12
42	Computer-based engineering of thermostabilized antibody fragments. <i>AIChE Journal</i> , 2020, 66, e16864.	3.6	12
43	Kinetic and thermodynamic analysis defines roles for two metal ions in DNA polymerase specificity and catalysis. <i>Journal of Biological Chemistry</i> , 2021, 296, 100184.	3.4	11
44	Structural Characterization of the Hydratase-Aldolases, NahE and PhdJ: Implications for the Specificity, Catalysis, and N-Acetylneuraminic Lyase Subgroup of the Aldolase Superfamily. <i>Biochemistry</i> , 2018, 57, 3524-3536.	2.5	10
45	Structural determinants for accurate dephosphorylation of RNA polymerase II by its cognate C-terminal domain (CTD) phosphatase during eukaryotic transcription. <i>Journal of Biological Chemistry</i> , 2019, 294, 8592-8605.	3.4	10
46	Kinetic and structural characterization of a cis-3-Chloroacrylic acid dehalogenase homologue in <i>Pseudomonas</i> sp. UW4: A potential step between subgroups in the tautomerase superfamily. <i>Archives of Biochemistry and Biophysics</i> , 2017, 636, 50-56.	3.0	9
47	Cross-Talk of Phosphorylation and Prolyl Isomerization of the C-terminal Domain of RNA Polymerase II. <i>Molecules</i> , 2014, 19, 1481-1511.	3.8	8
48	Structural Snapshots of an Engineered Cystathionine- β -lyase Reveal the Critical Role of Electrostatic Interactions in the Active Site. <i>Biochemistry</i> , 2017, 56, 876-885.	2.5	8
49	Structural Motifs for CTD Kinase Specificity on RNA Polymerase II during Eukaryotic Transcription. <i>ACS Chemical Biology</i> , 2020, 15, 2259-2272.	3.4	8
50	Synthesis and biological evaluation of N-{4-[5-(2,4-diamino-6-oxo-1,6-dihydropyrimidin-5-yl)-2-(2,2,2-trifluoroacetyl)pentyl]benzoyl}-l-glutamic acid as a potential inhibitor of GAR Tfase and the de novo purine biosynthetic pathway. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 3593-3599.	3.0	7
51	Bio-molecular architects: a scaffold provided by the C-terminal domain of eukaryotic RNA polymerase II. <i>Nano Reviews</i> , 2010, 1, 5502.	3.7	7
52	Evaluating Spatiotemporal Dynamics of Phosphorylation of RNA Polymerase II Carboxy-Terminal Domain by Ultraviolet Photodissociation Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2021, 143, 8488-8498.	13.7	7
53	10-(2-Benzoxazolcarbonyl)-5,10-dideaza-acyclic-5,6,7,8-tetrahydrofolic acid. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 4503-4509.	3.0	6
54	Synthesis and biological evaluation of $\hat{1}\pm$ - and $\hat{1}\beta$ -carboxamide derivatives of 10-CF ₃ CO-DDACTHF. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 3587-3592.	3.0	6

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55	Structural, Kinetic, and Mechanistic Analysis of an Asymmetric 4-Oxalocrotonate Tautomerase Trimer. <i>Biochemistry</i> , 2019, 58, 2617-2627.	2.5	6
56	Structural Basis for the Asymmetry of a 4-Oxalocrotonate Tautomerase Trimer. <i>Biochemistry</i> , 2020, 59, 1592-1603.	2.5	6
57	Mapping RNAPII CTD Phosphorylation Reveals That the Identity and Modification of Seventh Heptad Residues Direct Tyr1 Phosphorylation. <i>ACS Chemical Biology</i> , 2019, 14, 2264-2275.	3.4	5
58	Design, synthesis, and biological evaluation of 10-methanesulfonyl-DDACTHF, 10-methanesulfonyl-5-DACTHF, and 10-methylthio-DDACTHF as potent inhibitors of GAR Tfase and the de novo purine biosynthetic pathway. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 3577-3585.	3.0	4
59	What's all the phos about? Insights into the phosphorylation state of the RNA polymerase II C-terminal domain via mass spectrometry. <i>RSC Chemical Biology</i> , 2021, 2, 1084-1095.	4.1	4
60	The bacterial catabolism of polycyclic aromatic hydrocarbons: Characterization of three hydratase-aldolase-catalyzed reactions. <i>Perspectives in Science</i> , 2016, 9, 33-41.	0.6	3
61	Kinetic and Structural Analysis of Two Linkers in the Tautomerase Superfamily: Analysis and Implications. <i>Biochemistry</i> , 2021, 60, 1776-1786.	2.5	3
62	Inactivation of 4-Oxalocrotonate Tautomerase by 5-Halo-2-hydroxy-2,4-pentadienoates. <i>Biochemistry</i> , 2018, 57, 1012-1021.	2.5	2
63	Electrophoretic Mobility Shift Assay of in vitro Phosphorylated RNA Polymerase II Carboxyl-terminal Domain Substrates. <i>Bio-protocol</i> , 2020, 10, e3648.	0.4	2
64	Kinetic, Inhibition, and Structural Characterization of a Malonate Semialdehyde Decarboxylase-like Protein from <i>Calothrix</i> sp. PCC 6303: A Gateway to the non-Pro1 Tautomerase Superfamily Members. <i>Biochemistry</i> , 2022, , .	2.5	2
65	Chemical Tools for Studying the Impact of cis/trans Prolyl Isomerization on Signaling: A Case Study on RNA Polymerase II Phosphatase Activity and Specificity. <i>Methods in Enzymology</i> , 2018, 607, 269-297.	1.0	1
66	Advancements in chemical biology targeting the kinases and phosphatases of RNA polymerase II-mediated transcription. <i>Current Opinion in Chemical Biology</i> , 2021, 63, 68-77.	6.1	1
67	Modification of Ser 7 of the RNA Polymerase II C-terminal domain (CTD) regulates CTD phosphorylation patterns and transcription. <i>FASEB Journal</i> , 2019, 33, 458.6.	0.5	1
68	SCP4-STK35/PDIK1L complex is a dual phospho-catalytic signaling dependency in acute myeloid leukemia. <i>Cell Reports</i> , 2022, 38, 110233.	6.4	1
69	Targeted Covalent Inhibition of Small CTD Phosphatase 1 to Promote the Degradation of the REST Transcription Factor in Human Cells. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 507-519.	6.4	1