Ming-Daw Tsai

List of Publications by Year
in descending order

251 papers	9,497 citations	41258 49 h-index	62479 80 g-index
257 all docs	257 docs citations	257 times ranked	9389 citing authors

#	Article	IF	Citations
1	Ankyrin Repeat:Â A Unique Motif Mediating Proteinâ^'Protein Interactionsâ€. Biochemistry, 2006, 45, 15168-15178.	1.2	537
2	Interfacial Enzymology:â€‰ The Secreted Phospholipase A2-Paradigm. Chemical Reviews, 2001, 101, 2613-2654.	23.0	357
3	Regulatory Mechanisms of Tumor Suppressor P16^{INK4A}and Their Relevance to Cancer. Biochemistry, 2011, 50, 5566-5582.	1.2	251
4	AMP-Activated Protein Kinase Functionally Phosphorylates Endothelial Nitric Oxide Synthase Ser633. Circulation Research, 2009, 104, 496-505.	2.0	230
5	A Reexamination of the Nucleotide Incorporation Fidelity of DNA Polymerases. Biochemistry, 2002, 41, 10571-10576.	1.2	141
6	Tumor Suppressor p16INK4A: Determination of Solution Structure and Analyses of Its Interaction with Cyclin-Dependent Kinase 4. Molecular Cell, 1998, 1, 421-431.	4.5	140
7	Histone Demethylase RBP2 Promotes Lung Tumorigenesis and Cancer Metastasis. Cancer Research, 2013, 73, 4711-4721.	0.4	138
8	DNA Polymerase Î²:â€‰ Pre-Steady-State Kinetic Analysis and Roles of Arginine-283 in Catalysis and Fidelity. Biochemistry, 1996, 35, 7041-7050.	1.2	135
9	ÂDNA Polymerase Î²:Â Structureâ^'Fidelity Relationship from Pre-Steady-State Kinetic Analyses of All Possible Correct and Incorrect Base Pairs for Wild Type and R283A Mutantâ€. Biochemistry, 1997, 36, 1100-1107.	1.2	132
10	Insight into the Catalytic Mechanism of DNA Polymerase Î²:Â Structures of Intermediate Complexesâ€,â€¡. Biochemistry, 2001, 40, 5368-5375.	1.2	127
11	Nucleoside Monophosphate Kinases: Structure, Mechanism, and Substrate Specificity. Advances in Enzymology and Related Areas of Molecular Biology, 2006, 73, 103-134.	1.3	127
12	Structure and Function of the Phosphothreonine-Specific FHA Domain. Science Signaling, 2008, 1, re12.	1.6	126
13	Loss of the Oxidative Stress Sensor NPGPx Compromises GRP78 Chaperone Activity and Induces Systemic Disease. Molecular Cell, 2012, 48, 747-759.	4.5	120
14	DNA polymerase Î²: effects of gapped DNA substrates on dNTP specificity, fidelity, processivity and conformational changes. Biochemical Journal, 1998, 331, 79-87.	1.7	115
15	Structure and function of a new phosphopeptide-binding domain containing the FHA2 of rad53. Journal of Molecular Biology, 1999, 294, 1041-1049.	2.0	111
16	Use of 2-Aminopurine and Tryptophan Fluorescence as Probes in Kinetic Analyses of DNA Polymerase Î². Biochemistry, 2002, 41, 11226-11235.	1.2	110
17	DNA Polymerase Î²:Â Multiple Conformational Changes in the Mechanism of Catalysisâ€. Biochemistry, 1997, 36, 11891-11900.	1.2	103
18	Efficient and systematic syntheses of enantiomerically pure and regiospecifically protected myo-inositols. Journal of the American Chemical Society, 1992, 114, 6361-6374.	6.6	97

#	ARTICLE	IF	CITATIONS
19	The ARID domain of the H3K4 demethylase RBP2 binds to a DNA CCGCCC motif. Nature Structural and Molecular Biology, 2008, 15, 419-421.	3.6	97
20	Identification of Histone Demethylases in Saccharomyces cerevisiae. Journal of Biological Chemistry, 2007, 282, 14262-14271.	1.6	96
21	High-throughput identification of compounds targeting influenza RNA-dependent RNA polymerase activity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19151-19156.	3.3	96
22	Structure-based Combinatorial Protein Engineering (SCOPE). Journal of Molecular Biology, 2002, 321, 677-691.	2.0	95
23	Novel Insights into the INK4-CDK4/6-Rb Pathway:Â Counter Action of Gankyrin against INK4 Proteins Regulates the CDK4-Mediated Phosphorylation of Rbâ€. Biochemistry, 2002, 41, 3977-3983.	1.2	86
24	Use of phosphorus-31 nuclear magnetic resonance to distinguish bridge and nonbridge oxygens of oxygen-17-enriched nucleoside triphosphates. Stereochemistry of acetate activation by acetyl coenzyme A synthetase. Biochemistry, 1979, 18, 1468-1472.	1.2	83
25	Use of Viscogens, dNTPÎ±S, and Rhodium(III) as Probes in Stopped-Flow Experiments To Obtain New Evidence for the Mechanism of Catalysis by DNA Polymerase Î²â€‚â€¡. Biochemistry, 2005, 44, 5177-5187.	1.2	78
26	Tumor Suppressor p16INK4A:Â Structural Characterization of Wild-Type and Mutant Proteins by NMR and Circular Dichroismâ€. Biochemistry, 1996, 35, 9475-9487.	1.2	77
27	Structure of the FHA1 Domain of Yeast Rad53 and Identification of Binding Sites for both FHA1 and its Target Protein Rad9. Journal of Molecular Biology, 2000, 304, 941-951.	2.0	77
28	Diphosphothreonine-Specific Interaction between an SQ/TQ Cluster and an FHA Domain in the Rad53-Dun1 Kinase Cascade. Molecular Cell, 2008, 30, 767-778.	4.5	74
29	Toward the mechanism of phosphoinositide-specific phospholipases C. Bioorganic and Medicinal Chemistry, 1994, 2, 49-72.	1.4	73
30	E339â€¦R416 salt bridge of nucleoprotein as a feasible target for influenza virus inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16515-16520.	3.3	73
31	Phospholipase A2 Engineering. Structural and Functional Roles of the Highly Conserved Active Site Residue Aspartate-49. Biochemistry, 1994, 33, 14714-14722.	1.2	72
32	Database Search Algorithm for Identification of Intact Cross-Links in Proteins and Peptides Using Tandem Mass Spectrometry. Journal of Proteome Research, 2010, 9, 3384-3393.	1.8	72
33	A Ribonuclease Coordinates siRNA Amplification and mRNA Cleavage during RNAi. Cell, 2015, 160, 407-419.	13.5	71
34	Mechanism of Phosphatidylinositol-Specific Phospholipase C:Â A Unified View of the Mechanism of Catalysisâ€‚â€¡. Biochemistry, 1998, 37, 4568-4580.	1.2	70
35	Phospholipase A2 Engineering. The Roles of Disulfide Bonds in Structure, Conformational Stability, and Catalytic Function. Biochemistry, 1995, 34, 15307-15314.	1.2	69
36	Phospholipase A2 engineering. Probing the structural and functional roles of N-terminal residues with site-directed mutagenesis, x-ray, and NMR. Biochemistry, 1995, 34, 7322-7334.	1.2	66

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37	Solution structure of a viral DNA polymerase X and evidence for a mutagenic function. Nature Structural Biology, 2001, 8, 942-946.	9.7	65
38	Sequential phosphorylation and multisite interactions characterize specific target recognition by the FHA domain of Ki67. Nature Structural and Molecular Biology, 2005, 12, 987-993.	3.6	65
39	Mechanistic Comparison of High-Fidelity and Error-Prone DNA Polymerases and Ligases Involved in DNA Repair. Chemical Reviews, 2006, 106, 340-360.	23.0	65
40	A novel expression vector for high-level synthesis and secretion of foreign proteins in Escherichia coli: overproduction of bovine pancreatic phospholipase A2. Gene, 1990, 93, 229-234.	1.0	59
41	DNA polymerase Î²: analysis of the contributions of tyrosine-271 and asparagine-279 to substrate specificity and fidelity of DNA replication by pre-steady-state kinetics. Biochemical Journal, 1997, 323, 103-111.	1.7	58
42	Interception of teicoplanin oxidation intermediates yields new antimicrobial scaffolds. Nature Chemical Biology, 2011, 7, 304-309.	3.9	58
43	A DNA Polymerase with Specificity for Five Base Pairs. Journal of the American Chemical Society, 2001, 123, 1776-1777.	6.6	56
44	How DNA polymerases catalyse replication and repair with contrasting fidelity. Nature Reviews Chemistry, 2017, 1, .	13.8	54
45	Phospholipase A2Engineering. Structural and Functional Roles of the Highly Conserved Active Site Residue Aspartate-99â€. Biochemistry, 1997, 36, 3104-3114.	1.2	53
46	II. Structure and specificity of the interaction between the FHA2 domain of rad53 and phosphotyrosyl peptides. Journal of Molecular Biology, 2000, 302, 927-940.	2.0	53
47	DNA Polymerase Î²:â€‰ Pre-Steady-State Kinetic Analyses of dATPÎ±S Stereoselectivity and Alteration of the Stereoselectivity by Various Metal Ions and by Site-Directed Mutagenesis. Biochemistry, 2001, 40, 9014-9022.	1.2	53
48	DNA Polymerase Î²:Â Contributions of Template-Positioning and dNTP Triphosphate-Binding Residues to Catalysis and Fidelityâ€. Biochemistry, 2000, 39, 16008-16015.	1.2	52
49	Structural Basis of the Anionic Interface Preference and Activation of Pancreatic Phospholipase A2. Biochemistry, 2000, 39, 12312-12323.	1.2	52
50	Ubc9 acetylation modulates distinct SUMO target modification and hypoxia response. EMBO Journal, 2013, 32, 791-804.	3.5	51
51	Structure of the bifunctional cryptochrome aCRY from Chlamydomonas reinhardtii. Nucleic Acids Research, 2018, 46, 8010-8022.	6.5	51
52	Structure of Human Ki67 FHA Domain and its Binding to a Phosphoprotein Fragment from hNIFK Reveal Unique Recognition Sites and New Views to the Structural Basis of FHA Domain Functions. Journal of Molecular Biology, 2004, 335, 371-381.	2.0	50
53	Mechanism of adenylate kinase. The essential lysine helps to orient the phosphates and the active site residues to proper conformations. Biochemistry, 1995, 34, 3172-3182.	1.2	48
54	Biosynthesis of Streptolidine Involved Two Unexpected Intermediates Produced by a Dihydroxylase and a Cyclase through Unusual Mechanisms. Angewandte Chemie - International Edition, 2014, 53, 1943-1948.	7.2	47

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55	A Unified Kinetic Mechanism Applicable to Multiple DNA Polymerases,. Biochemistry, 2007, 46, 5463-5472.	1.2	46
56	Mechanism of Phosphatidylinositolâˆ'Phospholipase C. 2. Reversal of a Thio Effect by Site-Directed Mutagenesis1. Journal of the American Chemical Society, 1997, 119, 5477-5478.	6.6	45
57	Fha Interaction with Phosphothreonine of TssL Activates Type VI Secretion in Agrobacterium tumefaciens. PLoS Pathogens, 2014, 10, e1003991.	2.1	45
58	Phospholipase A2 engineering. 10. The aspartate...histidine catalytic diad also plays an important structural role. Journal of the American Chemical Society, 1993, 115, 8523-8526.	6.6	44
59	The nucleolar protein NIFK promotes cancer progression via CK1Î±/Î²-catenin in metastasis and Ki-67-dependent cell proliferation. ELife, 2016, 5, .	2.8	44
60	Tumor Suppressor INK4:â€‰ Determination of the Solution Structure of p18INK4C and Demonstration of the Functional Significance of Loops in p18INK4C and p16INK4Aâ€‰,. Biochemistry, 1999, 38, 2930-2940.	1.2	43
61	SomaticINK4a-ARF locus mutations: A significant mechanism of gene inactivation in squamous cell carcinomas of the head and neck. Molecular Carcinogenesis, 2001, 30, 26-36.	1.3	43
62	Diverse but Overlapping Functions of the Two Forkhead-associated (FHA) Domains in Rad53 Checkpoint Kinase Activation. Journal of Biological Chemistry, 2003, 278, 30421-30424.	1.6	43
63	Intermolecular Binding between TIFA-FHA and TIFA-pT Mediates Tumor Necrosis Factor Alpha Stimulation and NF-Î°B Activation. Molecular and Cellular Biology, 2012, 32, 2664-2673.	1.1	43
64	TIFA as a crucial mediator for NLRP3 inflammasome. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 15078-15083.	3.3	43
65	Mdt1, a Novel Rad53 FHA1 Domain-Interacting Protein, Modulates DNA Damage Tolerance and G 2 /M Cell Cycle Progression in Saccharomyces cerevisiae. Molecular and Cellular Biology, 2004, 24, 2779-2788.	1.1	42
66	Solution Structure of the Human Oncogenic Protein Gankyrin Containing Seven Ankyrin Repeats and Analysis of Its Structureâˆ'Function Relationship,. Biochemistry, 2004, 43, 12152-12161.	1.2	42
67	Solution structure of the yeast Rad53 FHA2 complexed with a phosphothreonine peptide pTXXL: comparison with the structures of FHA2-pYXL and FHA1-pTXXD complexes 1 1Edited by M. F. Summers. Journal of Molecular Biology, 2001, 314, 577-588.	2.0	41
68	Reversible Acetylation Regulates Salt-inducible Kinase (SIK2) and Its Function in Autophagy*. Journal of Biological Chemistry, 2013, 288, 6227-6237.	1.6	41
69	Aurora A and NF-Î°B Survival Pathway Drive Chemoresistance in Acute Myeloid Leukemia via the TRAF-Interacting Protein TIFA. Cancer Research, 2017, 77, 494-508.	0.4	41
70	Solution structures of two FHA1-phosphothreonine peptide complexes provide insight into the structural basis of the ligand specificity of FHA1 from yeast Rad53 1 1Edited by M. F. Summers. Journal of Molecular Biology, 2001, 314, 563-575.	2.0	40
71	Humoral Immunity against Capsule Polysaccharide Protects the Host from <i>magA</i> ⁺ <i>Klebsiella pneumoniae</i> -Induced Lethal Disease by Evading Toll-Like Receptor 4 Signaling. Infection and Immunity, 2009, 77, 615-621.	1.0	40
72	TagF-mediated repression of bacterial type VI secretion systems involves a direct interaction with the cytoplasmic protein Fha. Journal of Biological Chemistry, 2018, 293, 8829-8842.	1.6	40

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73	Human DNA Ligase IV and the Ligase IV/XRCC4 Complex:â€‰ Analysis of Nick Ligation Fidelity. Biochemistry, 2007, 46, 4962-4976.	1.2	39
74	Phosphatidylinositol-Specific Phospholipase C:â€‰ Kinetic and Stereochemical Evidence for an Interaction between Arginine-69 and the Phosphate Group of Phosphatidylinositol,. Biochemistry, 1997, 36, 6633-6642.	1.2	38
75	Tumor suppressor INK4: comparisons of conformational properties between p16 INK4A and p18 INK4C 1 1Edited by P. E. Wright. Journal of Molecular Biology, 1999, 294, 201-211.	2.0	38
76	An Error-Prone Viral DNA Ligase. Biochemistry, 2005, 44, 8408-8417.	1.2	38
77	Functions of Some Capsular Polysaccharide Biosynthetic Genes in Klebsiella pneumoniae NTUH K-2044. PLoS ONE, 2011, 6, e21664.	1.1	38
78	Phospholipase A2Engineering. Deletion of the C-Terminus Segment Changes Substrate Specificity and Uncouples Calcium and Substrate Binding at the Zwitterionic Interfaceâ€,âˆ‡. Biochemistry, 1996, 35, 12164-12174.	1.2	37
79	Involvement of the Argâˆ'Aspâˆ'His Catalytic Triad in Enzymatic Cleavage of the Phosphodiester Bondâ€. Biochemistry, 2001, 40, 5422-5432.	1.2	37
80	Chirality at a pro-pro-prochiral phosphorus center. Stereochemical course of the 5'-nucleotidase-catalyzed reaction. Journal of the American Chemical Society, 1980, 102, 5416-5418.	6.6	36
81	Applicability of the phosphorus-31 (oxygen-17) nuclear magnetic resonance method in the study of enzyme mechanism involving phosphorus. Biochemistry, 1980, 19, 3531-3536.	1.2	36
82	Synthesis of Inositol Phosphodiesters by Phospholipase C-Catalyzed Transesterification. Journal of the American Chemical Society, 1996, 118, 7679-7688.	6.6	36
83	Investigation of the Conformational States of Wzz and the WzzÂ·O-Antigen Complex under Near-Physiological Conditions. Biochemistry, 2007, 46, 11744-11752.	1.2	36
84	Protein Kinase A-mediated Serine 35 Phosphorylation Dissociates Histone H1.4 from Mitotic Chromosome*. Journal of Biological Chemistry, 2011, 286, 35843-35851.	1.6	36
85	Amino Acid Substitutions of MagA in Klebsiella pneumoniae Affect the Biosynthesis of the Capsular Polysaccharide. PLoS ONE, 2012, 7, e46783.	1.1	36
86	Effects of oxygen-17 and oxygen-18 on phosphorus-31 NMR: further investigation and applications. Journal of the American Chemical Society, 1983, 105, 5455-5461.	6.6	35
87	Are D- and L-chiro-Phosphoinositides Substrates of Phosphatidylinositol-Specific Phospholipase C?. Biochemistry, 1994, 33, 8367-8374.	1.2	35
88	Global analysis of modifications of the human BK virus structural proteins by LC-MS/MS. Virology, 2010, 402, 164-176.	1.1	35
89	An NF-Î°B-Specific Inhibitor, IÎ°BÎ±, Binds to and Inhibits Cyclin-Dependent Kinase 4. Biochemistry, 2003, 42, 13476-13483.	1.2	34
90	Splase: A new class IIs zinc-finger restriction endonuclease with specificity for Sp1 binding sites. The Protein Journal, 1996, 15, 481-489.	1.1	33

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91	Contributions of Residues of Pancreatic Phospholipase A2to Interfacial Binding, Catalysis, and Activationâ€. Biochemistry, 1999, 38, 4875-4884.	1.2	33
92	Mismatched and Matched dNTP Incorporation by DNA Polymerase Î² Proceed via Analogous Kinetic Pathways. Biochemistry, 2008, 47, 9718-9727.	1.2	33
93	Phospholipids chiral at phosphorus. 1. Stereochemistry of transphosphatidylation catalyzed by phospholipase D. Journal of the American Chemical Society, 1982, 104, 863-865.	6.6	32
94	Structure and function of the catalytic site mutant Asp 99 Asn of phospholipase A₂: Absence of the conserved structural water. Protein Science, 1994, 3, 2082-2088.	3.1	32
95	DNA Polymerase Î². 5. Dissecting the Functional Roles of the Two Metal Ions with Cr(III)dTTP1. Journal of the American Chemical Society, 1998, 120, 235-236.	6.6	32
96	Identification of in Vivo Phosphorylation Sites and Their Functional Significance in the Sodium Iodide Symporter. Journal of Biological Chemistry, 2007, 282, 36820-36828.	1.6	32
97	Human p16Î³, a novel transcriptional variant of p16INK4A, coexpresses with p16INK4A in cancer cells and inhibits cell-cycle progression. Oncogene, 2007, 26, 7017-7027.	2.6	32
98	Ultrafast Water Dynamics at the Interface of the Polymeraseâ€"DNA Binding Complex. Biochemistry, 2014, 53, 5405-5413.	1.2	32
99	Temperature-Resolved Cryo-EM Uncovers Structural Bases of Temperature-Dependent Enzyme Functions. Journal of the American Chemical Society, 2019, 141, 19983-19987.	6.6	32
100	Direct Binding of the N-Terminus of HTLV-1 Tax Oncoprotein to Cyclin-Dependent Kinase 4 Is a Dominant Path To Stimulate the Kinase Activity. Biochemistry, 2003, 42, 6921-6928.	1.2	31
101	The histone H3K36 demethylase Rph1/KDM4 regulates the expression of the photoreactivation gene PHR1. Nucleic Acids Research, 2011, 39, 4151-4165.	6.5	31
102	[15] Use of 31P(18O), 31P(17O), and 17O NMR methods to study enzyme mechanisms involving phosphorus. Methods in Enzymology, 1982, 87, 235-279.	0.4	30
103	Phospholipids chiral at phosphorus. 18. Stereochemistry of phosphatidylinositide-specific phospholipase C. Journal of the American Chemical Society, 1989, 111, 3099-3101.	6.6	30
104	Structure and mechanism of a nonhaem-iron SAM-dependent<i>C</i>-methyltransferase and its engineering to a hydratase and an<i>O</i>-methyltransferase. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 1549-1560.	2.5	30
105	Conformation-reactivity relationship for pyridoxal Schiff's bases. Rates of racemization and Î±-hydrogen exchange of the pyridoxal Schiff's bases of amino acids. Biochemistry, 1978, 17, 3183-3188.	1.2	29
106	Conformational analysis of pyridoxal Schiff's bases. Nuclear magnetic resonance studies of the conformations about the C4-C4', CÎ±-CÎ² and N-CÎ± bonds of the pyridoxal Schiff's bases of amino acids. Biochemistry, 1978, 17, 3177-3182.	1.2	29
107	Structural Analysis of Phospholipase A2 from Functional Perspective. 1. Functionally Relevant Solution Structure and Roles of the Hydrogen-Bonding Network,. Biochemistry, 1999, 38, 2909-2918.	1.2	29
108	The RNA recognition motif of NIFK is required for rRNA maturation during cell cycle progression. RNA Biology, 2015, 12, 255-267.	1.5	29

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109	Cationic Residues 53 and 56 Control the Anion-Induced Interfacial k*cat Activation of Pancreatic Phospholipase A2. Biochemistry, 1998, 37, 9549-9556.	1.2	28
110	Pancreatic phospholipase A2: new views on old issues. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1999, 1441, 215-222.	1.2	28
111	Mechanism of Phosphatidylinositol-Specific Phospholipase C:Â Origin of Unusually High Nonbridging Thio Effectsâ€. Biochemistry, 2001, 40, 5433-5439.	1.2	28
112	Crystal Structures of the Free and Anisic Acid Bound Triple Mutant of Phospholipase A2. Journal of Molecular Biology, 2003, 333, 367-376.	2.0	28
113	The Nuclear Protein p34SEI-1 Regulates the Kinase Activity of Cyclin-Dependent Kinase 4 in a Concentration-Dependent Manner. Biochemistry, 2004, 43, 4394-4399.	1.2	28
114	Contribution of the Reverse Rate of the Conformational Step to Polymerase Î² Fidelity. Biochemistry, 2009, 48, 3197-3208.	1.2	28
115	PHRF1 promotes genome integrity by modulating non-homologous end-joining. Cell Death and Disease, 2015, 6, e1716-e1716.	2.7	28
116	Phospholipase A2 engineering. 3. Replacement of lysine-56 by neutral residues improves catalytic efficiency significantly, alters substrate specificity, and clarifies the mechanism of interfacial recognition. Journal of the American Chemical Society, 1990, 112, 3704-3706.	6.6	27
117	JNK-mediated turnover and stabilization of the transcription factor p45/NF-E2 during differentiation of murine erythroleukemia cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 52-57.	3.3	27
118	Stereochemistry of the hydrolysis of adenosine 5'-thiophosphate catalyzed by venom 5'-nucleotidase. Biochemistry, 1980, 19, 5310-5316.	1.2	26
119	A Unique Flavin Mononucleotide-Linked Primary Alcohol Oxidase for Glycopeptide A40926 Maturation. Journal of the American Chemical Society, 2007, 129, 13384-13385.	6.6	26
120	Uncovering the Mechanism of Forkhead-Associated Domain-Mediated TIFA Oligomerization That Plays a Central Role in Immune Responses. Biochemistry, 2015, 54, 6219-6229.	1.2	26
121	Phospholipids chiral at phosphorus. 2. Preparation, property, and application of chiral thiophospholipids. Journal of the American Chemical Society, 1982, 104, 4682-4684.	6.6	25
122	Phospholipase A2 engineering. 4. Can the active-site aspartate-99 function alone?. Journal of the American Chemical Society, 1990, 112, 7074-7076.	6.6	25
123	Phospholipase A2 engineering. 6. Single amino acid substitutions of active site residues convert the rigid enzyme to highly flexible conformational states. Journal of the American Chemical Society, 1992, 114, 2748-2749.	6.6	25
124	Dissection of CDK4-Binding and Transactivation Activities of p34SEI-1and Comparison between Functions of p34SEI-1and p16INK4Aâ€. Biochemistry, 2005, 44, 13246-13256.	1.2	25
125	Phospholipids chiral at phosphorus. 5. Synthesis and configurational analysis of chiral [17O,18O]phosphatidylethanolamine. Journal of the American Chemical Society, 1984, 106, 747-754.	6.6	24
126	Tumor suppressor INK4: Refinement of p16^{INK4A} structure and determination of p15^{INK4B} structure by comparative modeling and NMR data. Protein Science, 2000, 9, 1120-1128.	3.1	24

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127	Glycopeptide Biosynthesis:Â Dbv21/Orf2* fromdbv/tcpGene Clusters AreN-Ac-Glm Teicoplanin Pseudoaglycone Deacetylases and Orf15 fromcepGene Cluster Is a Glc-1-P Thymidyltransferase. Journal of the American Chemical Society, 2006, 128, 13694-13695.	6.6	24
128	Dissection of Proteinâ€"Protein Interaction and CDK4 Inhibition in the Oncogenic versus Tumor Suppressing Functions of Gankyrin and P16. Journal of Molecular Biology, 2007, 373, 990-1005.	2.0	24
129	PP2A and Aurora differentially modify Cdc13 to promote telomerase release from telomeres at G2/M phase. Nature Communications, 2014, 5, 5312.	5.8	24
130	Protein Arginine Methyltransferase 8: Tetrameric Structure and Protein Substrate Specificity. Biochemistry, 2015, 54, 7514-7523.	1.2	24
131	Serial crystallography captures dynamic control of sequential electron and proton transfer events in a flavoenzyme. Nature Chemistry, 2022, 14, 677-685.	6.6	24
132	Terpenes and sterols of Cunninghamia konishii. Phytochemistry, 1972, 11, 2108-2109.	1.4	23
133	Mechanism of adenylate kinase. 10. Reversing phosphorus stereospecificity by site-directed mutagenesis. Journal of the American Chemical Society, 1991, 113, 5485-5486.	6.6	23
134	Practical synthesis of enantiomerically pure myo-inositol derivatives. Tetrahedron Letters, 1992, 33, 1009-1012.	0.7	23
135	Structural Analysis of Phospholipase A2 from Functional Perspective. 2. Characterization of a Molten Globule-Like State Induced by Site-Specific Mutagenesis. Biochemistry, 1999, 38, 2919-2929.	1.2	23
136	A Novel Calcium-Dependent Bacterial Phosphatidylinositol-Specific Phospholipase C Displaying Unprecedented Magnitudes of Thio Effect, Inverse Thio Effect, and Stereoselectivity. Journal of the American Chemical Society, 2003, 125, 22-23.	6.6	23
137	ASFV DNA Polymerase X Is Extremely Error-Prone under Diverse Assay Conditions and within Multiple DNA Sequence Contextsâ€. Biochemistry, 2006, 45, 14826-14833.	1.2	23
138	Aiolos collaborates with Blimp-1 to regulate the survival of multiple myeloma cells. Cell Death and Differentiation, 2016, 23, 1175-1184.	5.0	23
139	Chiral Methyl Groups. Advances in Enzymology and Related Areas of Molecular Biology, 2006, 50, 243-302.	1.3	22
140	Regioselective deacetylation based on teicoplanin-complexed Orf2* crystal structures. Molecular BioSystems, 2011, 7, 1224.	2.9	22
141	Kinetic Mechanism of Active Site Assembly and Chemical Catalysis of DNA Polymerase Î². Biochemistry, 2011, 50, 9865-9875.	1.2	22
142	Molecular Basis of the Essential S Phase Function of the Rad53 Checkpoint Kinase. Molecular and Cellular Biology, 2013, 33, 3202-3213.	1.1	22
143	How a Low-Fidelity DNA Polymerase Chooses Non-Watsonâ€"Crick from Watsonâ€"Crick Incorporation. Journal of the American Chemical Society, 2014, 136, 4927-4937.	6.6	22
144	Phospholipase A2 engineering: Design, synthesis, and expression of a gene for bovine (pro)phospholipase A2. Journal of Cellular Biochemistry, 1989, 40, 309-320.	1.2	21

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145	Frequent p16INK4A/CDKN2A alterations in chemically induced Syrian golden hamster pancreatic tumors. Carcinogenesis, 2003, 25, 263-268.	1.3	21
146	Phosphorylation of mRNA Decapping Protein Dcp1a by the ERK Signaling Pathway during Early Differentiation of 3T3-L1 Preadipocytes. PLoS ONE, 2013, 8, e61697.	1.1	21
147	Phospholipids chiral at phosphorus. 4. Could membranes be chiral at phosphorus?. Journal of the American Chemical Society, 1983, 105, 2478-2480.	6.6	20
148	Tumor Suppressor INK4:â€‰ Quantitative Structureâ^'Function Analyses of p18INK4C as an Inhibitor of Cyclin-Dependent Kinase 4. Biochemistry, 2000, 39, 649-657.	1.2	20
149	Application of BrÃ¸nsted-Type LFER in the Study of the Phospholipase C Mechanismâ€. Journal of the American Chemical Society, 2003, 125, 3236-3242.	6.6	20
150	FHA Domainâ^'Ligand Interactions:Â Importance of Integrating Chemical and Biological Approaches. Journal of the American Chemical Society, 2005, 127, 14572-14573.	6.6	20
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