Matthew J Cliff

List of Publications by Year
in descending order

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		172457	214800
61	2,329	29	47
papers	citations	h-index	g-index

65	65	65	3061
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Molecular basis for TPR domain-mediated regulation of protein phosphatase 5. EMBO Journal, 2005, 24, 1-10.	7.8	194
2	Simultaneously Enhancing Spectral Resolution and Sensitivity in Heteronuclear Correlation NMR Spectroscopy. Angewandte Chemie - International Edition, 2013, 52, 11616-11619.	13.8	160
3	Why did Nature select phosphate for its dominant roles in biology?. New Journal of Chemistry, 2010, 34, 784.	2.8	146
4	Conformational changes in the AAA ATPase p97â€“p47 adaptor complex. EMBO Journal, 2006, 25, 1967-1976.	7.8	95
5	Molecular Recognition via Coupled Folding and Binding in a TPR Domain. Journal of Molecular Biology, 2005, 346, 717-732.	4.2	81
6	Conformational Diversity in the TPR Domain-Mediated Interaction of Protein Phosphatase 5 with Hsp90. Structure, 2006, 14, 415-426.	3.3	80
7	Transition State Analogue Structures of Human Phosphoglycerate Kinase Establish the Importance of Charge Balance in Catalysis. Journal of the American Chemical Society, 2010, 132, 6507-6516.	13.7	79
8	Anionic Charge Is Prioritized over Geometry in Aluminum and Magnesium Fluoride Transition State Analogs of Phosphoryl Transfer Enzymes. Journal of the American Chemical Society, 2008, 130, 3952-3958.	13.7	77
9	Making the longest sugars: a chemical synthesis of heparin-related [4]_noligosaccharides from 16-mer to 40-mer. Chemical Science, 2015, 6, 6158-6164.	7.4	77
10	Atomic details of near-transition state conformers for enzyme phosphoryl transfer revealed by MgF3- rather than by phosphoranes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4555-4560.	7.1	74
11	Enzymatic Carboxylation of 2-Furoic Acid Yields 2,5-Furandicarboxylic Acid (FDCA). ACS Catalysis, 2019, 9, 2854-2865.	11.2	74
12	A kinetic analysis of the nucleotide-induced allosteric transitions of GroEL 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 1999, 293, 667-684.	4.2	72
13	A survey of the year 2003 literature on applications of isothermal titration calorimetry. Journal of Molecular Recognition, 2004, 17, 513-523.	2.1	69
14	Asymmetry, commitment and inhibition in the GroE ATPase cycle impose alternating functions on the two GroEL rings. Journal of Molecular Biology, 1998, 278, 267-278.	4.2	61
15	Domain rotations between open, closed and bullet-shaped forms of the thermosome, an archaeal chaperonin 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 2000, 301, 323-332.	4.2	56
16	Crystal Structure of Tobacco Etch Virus Protease Shows the Protein C Terminus Bound within the Active Site. Journal of Molecular Biology, 2005, 350, 145-155.	4.2	55
17	A role for tungsten in the biology of Campylobacter jejuni: tungstate stimulates formate dehydrogenase activity and is transported via an ultraâ€high affinity ABC system distinct from the molybdate transporter. Molecular Microbiology, 2009, 74, 742-757.	2.5	53
18	A survey of the year 2002 literature on applications of isothermal titration calorimetry. Journal of Molecular Recognition, 2003, 16, 383-391.	2.1	50

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19	Enzymatic properties of the lactate dehydrogenase enzyme from Plasmodium falciparum. FEBS Journal, 2007, 274, 2738-2748.	4.7	49
20	Near attack conformers dominate Î²-phosphoglucomutase complexes where geometry and charge distribution reflect those of substrate. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6910-6915.	7.1	47
21	Î±-Fluorophosphonates reveal how a phosphomutase conserves transition state conformation over hexose recognition in its two-step reaction. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12384-12389.	7.1	42
22	Elucidation of Steps in the Capture of a Protein Substrate for Efficient Encapsulation by GroE. Journal of Biological Chemistry, 2006, 281, 21266-21275.	3.4	38
23	Proteoglycans and Their Heterogeneous Glycosaminoglycans at the Atomic Scale. Biomacromolecules, 2015, 16, 951-961.	5.4	35
24	The role of conserved residues in Fdc decarboxylase in prenylated flavin mononucleotide oxidative maturation, cofactor isomerization, and catalysis. Journal of Biological Chemistry, 2018, 293, 2272-2287.	3.4	35
25	A Kinetic Model of Intermediate Formation during Assembly of Cholera Toxin B-subunit Pentamers. Journal of Biological Chemistry, 2002, 277, 16697-16704.	3.4	34
26	The CouPSTU and TarPQM Transporters in Rhodopseudomonas palustris: Redundant, Promiscuous Uptake Systems for Lignin-Derived Aromatic Substrates. PLoS ONE, 2013, 8, e59844.	2.5	33
27	Characterizing monoclonal antibody formulations in arginine glutamate solutions using ¹H NMR spectroscopy. MAbs, 2016, 8, 1245-1258.	5.2	31
28	Real-time pure shift 15N HSQC of proteins: a real improvement in resolution and sensitivity. Journal of Biomolecular NMR, 2015, 62, 43-52.	2.8	30
29	Fhit proteins can also recognize substrates other than dinucleoside polyphosphates. FEBS Letters, 2008, 582, 3152-3158.	2.8	29
30	The Denatured State under Native Conditions: A Non-native-like Collapsed State of N-PGK. Journal of Molecular Biology, 2006, 357, 365-372.	4.2	28
31	Myc phosphorylation in its basic helixâ€“loopâ€“helix region destabilizes transient Î±-helical structures, disrupting Max and DNA binding. Journal of Biological Chemistry, 2018, 293, 9301-9310.	3.4	28
32	Chargeâ€Balanced Metal Fluoride Complexes for Protein Kinaseâ€…A with Adenosine Diphosphate and Substrate Peptide SP20. Angewandte Chemie - International Edition, 2012, 51, 12242-12245.	13.8	26
33	Low Energy Pathways and Non-native Interactions. Journal of Biological Chemistry, 2005, 280, 40494-40499.	3.4	25
34	Structural Basis for Selective Interaction between the ESCRT Regulator HD-PTP and UBAP1. Structure, 2016, 24, 2115-2126.	3.3	22
35	Equatorial Active Site Compaction and Electrostatic Reorganization in Catechol-O-methyltransferase. ACS Catalysis, 2019, 9, 4394-4401.	11.2	21
36	Prioritization of Charge over Geometry in Transition State Analogues of a Dual Specificity Protein Kinase. Journal of the American Chemical Society, 2011, 133, 3989-3994.	13.7	18

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37	Mapping Hidden Residual Structure within the Myc bHLH-LZ Domain Using Chemical Denaturant Titration. Structure, 2019, 27, 1537-1546.e4.	3.3	17
38	Redox-State-Dependent Complex Formation between Pseudoazurin and Nitrite Reductase. Journal of the American Chemical Society, 2007, 129, 226-233.	13.7	15
39	Structure and Mechanism of Pseudomonas aeruginosa PA0254/HudA, a prFMN-Dependent Pyrrole-2-carboxylic Acid Decarboxylase Linked to Virulence. ACS Catalysis, 2021, 11, 2865-2878.	11.2	15
40	The Denatured State of N-PGK Is Compact and Predominantly Disordered. Journal of Molecular Biology, 2009, 385, 266-277.	4.2	14
41	Nonequivalence of Second Sphere â€œNoncatalyticâ€•Residues in Pentaerythritol Tetranitrate Reductase in Relation to Local Dynamics Linked to H-Transfer in Reactions with NADH and NADPH Coenzymes. ACS Catalysis, 2018, 8, 11589-11599.	11.2	12
42	van der Waals Contact between Nucleophile and Transferring Phosphorus Is Insufficient To Achieve Enzyme Transition-State Architecture. ACS Catalysis, 2018, 8, 8140-8153.	11.2	12
43	Structural and biochemical characterization of the prenylated flavin mononucleotide-dependent indole-3-carboxylic acid decarboxylase. Journal of Biological Chemistry, 2022, 298, 101771.	3.4	10
44	Beyond the EX1 Limit: Probing the Structure of High-energy States in Protein Unfolding. Journal of Molecular Biology, 2004, 336, 497-508.	4.2	9
45	Assessing the Influence of Mutation on GTPase Transition States by Using Xâ€ray Crystallography, ¹⁹Fâ€…NMR, and DFT Approaches. Angewandte Chemie - International Edition, 2017, 56, 9732-9735.	13.8	9
46	Structural Tightening and Interdomain Communication in the Catalytic Cycle of Phosphoglycerate Kinase. Journal of Molecular Biology, 2010, 396, 345-360.	4.2	7
47	Mapping local structural perturbations in the native state of stefin B (cystatin B) under amyloid forming conditions. Frontiers in Molecular Neuroscience, 2012, 5, 94.	2.9	7
48	The Relationship between Enzyme Conformational Change, Proton Transfer, and Phosphoryl Transfer in Î²-Phosphoglucomutase. ACS Catalysis, 2021, 11, 12840-12849.	11.2	7
49	1H, 15N and 13C backbone resonance assignments of pentaerythritol tetranitrate reductase from Enterobacter cloacae PB2. Biomolecular NMR Assignments, 2018, 12, 79-83.	0.8	6
50	A Thiol Labelling Competition Experiment as a Probe for Sidechain Packing in the Kinetic Folding Intermediate of N-PGK. Journal of Molecular Biology, 2006, 364, 810-823.	4.2	5
51	Structural effects of the highly protective V127 polymorphism on human prion protein. Communications Biology, 2020, 3, 402.	4.4	5
52	Trp203 mutation in GroEL promotes a self-association reaction: a hydrodynamic study. European Biophysics Journal, 2000, 29, 420-428.	2.2	4
53	Microarray screening reveals two non-conventional SUMO-binding modules linked to DNA repair by non-homologous end-joining. Nucleic Acids Research, 2022, 50, 4732-4754.	14.5	4
54	An Enzyme with High Catalytic Proficiency Utilizes Distal Site Substrate Binding Energy to Stabilize the Closed State but at the Expense of Substrate Inhibition. ACS Catalysis, 2022, 12, 3149-3164.	11.2	3

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55	1H, 15N, 13C backbone resonance assignments of human soluble catechol O-methyltransferase in complex with S-adenosyl-l-methionine and 3,5-dinitrocatechol. Biomolecular NMR Assignments, 2017, 11, 57-61.	0.8	2
56	Isotopically labeled flavoenzymes and their uses in probing reaction mechanisms. Methods in Enzymology, 2019, 620, 145-166.	1.0	2
57	1H, 13C, 15N backbone resonance assignment for the 1â€“164 construct of human XRCC4. Biomolecular NMR Assignments, 2021, 15, 389-395.	0.8	2
58	Assessing the Influence of Mutation on GTPase Transition States by Using Xâ€ray Crystallography, 19 Fâ€...NMR, and DFT Approaches. Angewandte Chemie, 2017, 129, 9864-9867.	2.0	1
59	1H, 15N, 13C backbone resonance assignments of human phosphoglycerate kinase in a transition state analogue complex with ADP, 3-phosphoglycerate and magnesium trifluoride. Biomolecular NMR Assignments, 2017, 11, 251-256.	0.8	1
60	Allomorphy as a mechanism of post-translational control of enzyme activity. Nature Communications, 2020, 11, 5538.	12.8	1
61	Spinning sugars in antigen biosynthesis: characterization of the Coxiella burnetii and Streptomyces griseus TDP-sugar epimerases. Journal of Biological Chemistry, 2022, , 101903.	3.4	1