

# Matthew J Cliff

## List of Publications by Year in descending order

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61  
papers

2,329  
citations

172457

29  
h-index

214800

47  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3061  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microarray screening reveals two non-conventional SUMO-binding modules linked to DNA repair by non-homologous end-joining. <i>Nucleic Acids Research</i> , 2022, 50, 4732-4754.	14.5	4
2	An Enzyme with High Catalytic Proficiency Utilizes Distal Site Substrate Binding Energy to Stabilize the Closed State but at the Expense of Substrate Inhibition. <i>ACS Catalysis</i> , 2022, 12, 3149-3164.	11.2	3
3	Structural and biochemical characterization of the prenylated flavin mononucleotide-dependent indole-3-carboxylic acid decarboxylase. <i>Journal of Biological Chemistry</i> , 2022, 298, 101771.	3.4	10
4	Spinning sugars in antigen biosynthesis: characterization of the <i>Coxiella burnetii</i> and <i>Streptomyces griseus</i> TDP-sugar epimerases. <i>Journal of Biological Chemistry</i> , 2022, , 101903.	3.4	1
5	Structure and Mechanism of <i>Pseudomonas aeruginosa</i> PA0254/HudA, a prFMN-Dependent Pyrrole-2-carboxylic Acid Decarboxylase Linked to Virulence. <i>ACS Catalysis</i> , 2021, 11, 2865-2878.	11.2	15
6	<sup>1</sup> H, <sup>13</sup> C, <sup>15</sup> N backbone resonance assignment for the 164 construct of human XRCC4. <i>Biomolecular NMR Assignments</i> , 2021, 15, 389-395.	0.8	2
7	The Relationship between Enzyme Conformational Change, Proton Transfer, and Phosphoryl Transfer in <sup>l</sup> 2-Phosphoglucomutase. <i>ACS Catalysis</i> , 2021, 11, 12840-12849.	11.2	7
8	Structural effects of the highly protective V127 polymorphism on human prion protein. <i>Communications Biology</i> , 2020, 3, 402.	4.4	5
9	Allomorphy as a mechanism of post-translational control of enzyme activity. <i>Nature Communications</i> , 2020, 11, 5538.	12.8	1
10	Isotopically labeled flavoenzymes and their uses in probing reaction mechanisms. <i>Methods in Enzymology</i> , 2019, 620, 145-166.	1.0	2
11	Mapping Hidden Residual Structure within the Myc bHLH-LZ Domain Using Chemical Denaturant Titration. <i>Structure</i> , 2019, 27, 1537-1546.e4.	3.3	17
12	Equatorial Active Site Compaction and Electrostatic Reorganization in Catechol-O-methyltransferase. <i>ACS Catalysis</i> , 2019, 9, 4394-4401.	11.2	21
13	Enzymatic Carboxylation of 2-Furoic Acid Yields 2,5-Furandicarboxylic Acid (FDCA). <i>ACS Catalysis</i> , 2019, 9, 2854-2865.	11.2	74
14	The role of conserved residues in Fdc decarboxylase in prenylated flavin mononucleotide oxidative maturation, cofactor isomerization, and catalysis. <i>Journal of Biological Chemistry</i> , 2018, 293, 2272-2287.	3.4	35
15	Myc phosphorylation in its basic helix-loop-helix region destabilizes transient <sup>l</sup> ±-helical structures, disrupting Max and DNA binding. <i>Journal of Biological Chemistry</i> , 2018, 293, 9301-9310.	3.4	28
16	<sup>1</sup> H, <sup>15</sup> N and <sup>13</sup> C backbone resonance assignments of pentaerythritol tetranitrate reductase from <i>Enterobacter cloacae</i> PB2. <i>Biomolecular NMR Assignments</i> , 2018, 12, 79-83.	0.8	6
17	Nonequivalence of Second Sphere Noncatalytic Residues in Pentaerythritol Tetranitrate Reductase in Relation to Local Dynamics Linked to H-Transfer in Reactions with NADH and NADPH Coenzymes. <i>ACS Catalysis</i> , 2018, 8, 11589-11599.	11.2	12
18	van der Waals Contact between Nucleophile and Transferring Phosphorus Is Insufficient To Achieve Enzyme Transition-State Architecture. <i>ACS Catalysis</i> , 2018, 8, 8140-8153.	11.2	12

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19	Assessing the Influence of Mutation on GTPase Transition States by Using X-ray Crystallography, <sup>19</sup> F-NMR, and DFT Approaches. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9732-9735.	13.8	9
20	Assessing the Influence of Mutation on GTPase Transition States by Using X-ray Crystallography, <sup>19</sup> F-NMR, and DFT Approaches. <i>Angewandte Chemie</i> , 2017, 129, 9864-9867.	2.0	1
21	<sup>1</sup> H, <sup>15</sup> N, <sup>13</sup> C backbone resonance assignments of human soluble catechol O-methyltransferase in complex with S-adenosyl-l-methionine and 3,5-dinitrocatechol. <i>Biomolecular NMR Assignments</i> , 2017, 11, 57-61.	0.8	2
22	<sup>1</sup> H, <sup>15</sup> N, <sup>13</sup> C backbone resonance assignments of human phosphoglycerate kinase in a transition state analogue complex with ADP, 3-phosphoglycerate and magnesium trifluoride. <i>Biomolecular NMR Assignments</i> , 2017, 11, 251-256.	0.8	1
23	Structural Basis for Selective Interaction between the ESCRT Regulator HD-PTP and UBAP1. <i>Structure</i> , 2016, 24, 2115-2126.	3.3	22
24	Characterizing monoclonal antibody formulations in arginine glutamate solutions using <sup>1</sup> H NMR spectroscopy. <i>MAbs</i> , 2016, 8, 1245-1258.	5.2	31
25	Proteoglycans and Their Heterogeneous Glycosaminoglycans at the Atomic Scale. <i>Biomacromolecules</i> , 2015, 16, 951-961.	5.4	35
26	Real-time pure shift <sup>15</sup> N HSQC of proteins: a real improvement in resolution and sensitivity. <i>Journal of Biomolecular NMR</i> , 2015, 62, 43-52.	2.8	30
27	Making the longest sugars: a chemical synthesis of heparin-related [4] <sub>n</sub> oligosaccharides from 16-mer to 40-mer. <i>Chemical Science</i> , 2015, 6, 6158-6164.	7.4	77
28	<sup>19</sup> F-Fluorophosphonates reveal how a phosphomutase conserves transition state conformation over hexose recognition in its two-step reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12384-12389.	7.1	42
29	Simultaneously Enhancing Spectral Resolution and Sensitivity in Heteronuclear Correlation NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11616-11619.	13.8	160
30	The CouPSTU and TarPQM Transporters in <i>Rhodospseudomonas palustris</i> : Redundant, Promiscuous Uptake Systems for Lignin-Derived Aromatic Substrates. <i>PLoS ONE</i> , 2013, 8, e59844.	2.5	33
31	Near attack conformers dominate <sup>12</sup> C-phosphoglucomutase complexes where geometry and charge distribution reflect those of substrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6910-6915.	7.1	47
32	Charge-Balanced Metal Fluoride Complexes for Protein Kinase A with Adenosine Diphosphate and Substrate Peptide SP20. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12242-12245.	13.8	26
33	Mapping local structural perturbations in the native state of stefin B (cystatin B) under amyloid forming conditions. <i>Frontiers in Molecular Neuroscience</i> , 2012, 5, 94.	2.9	7
34	Prioritization of Charge over Geometry in Transition State Analogues of a Dual Specificity Protein Kinase. <i>Journal of the American Chemical Society</i> , 2011, 133, 3989-3994.	13.7	18
35	Atomic details of near-transition state conformers for enzyme phosphoryl transfer revealed by MgF <sub>3</sub> - rather than by phosphoranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4555-4560.	7.1	74
36	Transition State Analogue Structures of Human Phosphoglycerate Kinase Establish the Importance of Charge Balance in Catalysis. <i>Journal of the American Chemical Society</i> , 2010, 132, 6507-6516.	13.7	79

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37	Why did Nature select phosphate for its dominant roles in biology?. <i>New Journal of Chemistry</i> , 2010, 34, 784.	2.8	146
38	Structural Tightening and Interdomain Communication in the Catalytic Cycle of Phosphoglycerate Kinase. <i>Journal of Molecular Biology</i> , 2010, 396, 345-360.	4.2	7
39	A role for tungsten in the biology of <i>Campylobacter jejuni</i> : tungstate stimulates formate dehydrogenase activity and is transported via an ultra-high affinity ABC system distinct from the molybdate transporter. <i>Molecular Microbiology</i> , 2009, 74, 742-757.	2.5	53
40	The Denatured State of N-PGK Is Compact and Predominantly Disordered. <i>Journal of Molecular Biology</i> , 2009, 385, 266-277.	4.2	14
41	Fhit proteins can also recognize substrates other than dinucleoside polyphosphates. <i>FEBS Letters</i> , 2008, 582, 3152-3158.	2.8	29
42	Anionic Charge Is Prioritized over Geometry in Aluminum and Magnesium Fluoride Transition State Analogs of Phosphoryl Transfer Enzymes. <i>Journal of the American Chemical Society</i> , 2008, 130, 3952-3958.	13.7	77
43	Redox-State-Dependent Complex Formation between Pseudoazurin and Nitrite Reductase. <i>Journal of the American Chemical Society</i> , 2007, 129, 226-233.	13.7	15
44	Enzymatic properties of the lactate dehydrogenase enzyme from <i>Plasmodium falciparum</i> . <i>FEBS Journal</i> , 2007, 274, 2738-2748.	4.7	49
45	The Denatured State under Native Conditions: A Non-native-like Collapsed State of N-PGK. <i>Journal of Molecular Biology</i> , 2006, 357, 365-372.	4.2	28
46	A Thiol Labelling Competition Experiment as a Probe for Sidechain Packing in the Kinetic Folding Intermediate of N-PGK. <i>Journal of Molecular Biology</i> , 2006, 364, 810-823.	4.2	5
47	Conformational changes in the AAA ATPase p97/p47 adaptor complex. <i>EMBO Journal</i> , 2006, 25, 1967-1976.	7.8	95
48	Conformational Diversity in the TPR Domain-Mediated Interaction of Protein Phosphatase 5 with Hsp90. <i>Structure</i> , 2006, 14, 415-426.	3.3	80
49	Elucidation of Steps in the Capture of a Protein Substrate for Efficient Encapsulation by GroE. <i>Journal of Biological Chemistry</i> , 2006, 281, 21266-21275.	3.4	38
50	Molecular basis for TPR domain-mediated regulation of protein phosphatase 5. <i>EMBO Journal</i> , 2005, 24, 1-10.	7.8	194
51	Low Energy Pathways and Non-native Interactions. <i>Journal of Biological Chemistry</i> , 2005, 280, 40494-40499.	3.4	25
52	Molecular Recognition via Coupled Folding and Binding in a TPR Domain. <i>Journal of Molecular Biology</i> , 2005, 346, 717-732.	4.2	81
53	Crystal Structure of Tobacco Etch Virus Protease Shows the Protein C Terminus Bound within the Active Site. <i>Journal of Molecular Biology</i> , 2005, 350, 145-155.	4.2	55
54	A survey of the year 2003 literature on applications of isothermal titration calorimetry. <i>Journal of Molecular Recognition</i> , 2004, 17, 513-523.	2.1	69

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55	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
56	A survey of the year 2002 literature on applications of isothermal titration calorimetry. Journal of Molecular Recognition, 2003, 16, 383-391.	2.1	50
57	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
58	Trp203 mutation in GroEL promotes a self-association reaction: a hydrodynamic study. European Biophysics Journal, 2000, 29, 420-428.	2.2	4
59	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
60	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
61	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