William Furey

List of Publications by Year
in descending order

24 papers	1,419 citations	471509 17 h-index	610901 24 g-index
24 all docs	24 docs citations	24 times ranked	1552 citing authors

#	Article	IF	Citations
1	The Pyruvate Dehydrogenase Complexes: Structure-based Function and Regulation. Journal of Biological Chemistry, 2014, 289, 16615-16623.	3.4	418
2	Structure of the Pyruvate Dehydrogenase Multienzyme Complex E1 Component fromEscherichia coliat 1.85 Ã... Resolutionâ€,â€¡. Biochemistry, 2002, 41, 5213-5221.	2.5	139
3	Inhibition of the Escherichia coli Pyruvate Dehydrogenase Complex E1 Subunit and Its Tyrosine 177 Variants by Thiamin 2-Thiazolone and Thiamin 2-Thiothiazolone Diphosphates. Journal of Biological Chemistry, 2001, 276, 45969-45978.	3.4	99
4	Tetrahedral Intermediates in Thiamin Diphosphate-Dependent Decarboxylations Exist as a 1â€˜,4â€˜-Imino Tautomeric Form of the Coenzyme, Unlike the Michaelis Complex or the Free Coenzymeâ€. Biochemistry, 2004, 43, 6565-6575.	2.5	91
5	A Thiamin-bound, Pre-decarboxylation Reaction Intermediate Analogue in the Pyruvate Dehydrogenase E1 Subunit Induces Large Scale Disorder-to-Order Transformations in the Enzyme and Reveals Novel Structural Features in the Covalently Bound Adduct. Journal of Biological Chemistry, 2006, 281, 15296-15303.	3.4	91
6	Dual Catalytic Apparatus of the Thiamin Diphosphate Coenzyme:Â Acidâ€'Base via the 1â€˜,4â€˜-Iminopyrimidine Tautomer along with Its Electrophilic Role. Journal of the American Chemical Society, 2003, 125, 12732-12738.	13.7	70
7	Catalytic Acidâ€'Base Groups in Yeast Pyruvate Decarboxylase. 1. Site-Directed Mutagenesis and Steady-State Kinetic Studies on the Enzyme with the D28A, H114F, H115F, and E477Q Substitutionsâ€. Biochemistry, 2001, 40, 7355-7368.	2.5	63
8	Efficient coupling of catalysis and dynamics in the E1 component of Escherichia coli pyruvate dehydrogenase multienzyme complex. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1158-1163.	7.1	47
9	Structural Determinants of Enzyme Binding Affinity:Â The E1 Component of Pyruvate Dehydrogenase fromEscherichia coliin Complex with the Inhibitor Thiamin Thiazolone Diphosphateâ€,â€¡. Biochemistry, 2004, 43, 2405-2411.	2.5	46
10	A Dynamic Loop at the Active Center of the Escherichia coli Pyruvate Dehydrogenase Complex E1 Component Modulates Substrate Utilization and Chemical Communication with the E2 Component. Journal of Biological Chemistry, 2007, 282, 28106-28116.	3.4	42
11	Insight to the Interaction of the Dihydrolipoamide Acetyltransferase (E2) Core with the Peripheral Components in the Escherichia coli Pyruvate Dehydrogenase Complex via Multifaceted Structural Approaches. Journal of Biological Chemistry, 2013, 288, 15402-15417.	3.4	42
12	Structure and Function of the Catalytic Domain of the Dihydrolipoyl Acetyltransferase Component in Escherichia coli Pyruvate Dehydrogenase Complex. Journal of Biological Chemistry, 2014, 289, 15215-15230.	3.4	37
13	Histidine 407, a Phantom Residue in the E1 Subunit of theEscherichia coliPyruvate Dehydrogenase Complex, Activates Reductive Acetylation of Lipoamide on the E2 Subunit. An Explanation for Conservation of Active Sites between the E1 Subunit and Transketolaseâ€. Biochemistry, 2002, 41, 15459-15467.	2.5	33
14	Glutamate 636 of the Escherichia coli Pyruvate Dehydrogenase-E1 Participates in Active Center Communication and Behaves as an Engineered Acetolactate Synthase with Unusual Stereoselectivity. Journal of Biological Chemistry, 2005, 280, 21473-21482.	3.4	32
15	Communication between Thiamin Cofactors in the Escherichia coli Pyruvate Dehydrogenase Complex E1 Component Active Centers. Journal of Biological Chemistry, 2010, 285, 11197-11209.	3.4	27
16	A multipronged approach unravels unprecedented proteinâ€“protein interactions in the human 2-oxoglutarate dehydrogenase multienzyme complex. Journal of Biological Chemistry, 2018, 293, 19213-19227.	3.4	25
17	Structure and Glycan Binding of a New Cyanovirin-N Homolog. Journal of Biological Chemistry, 2016, 291, 18967-18976.	3.4	23
18	Novel Binding Motif and New Flexibility Revealed by Structural Analyses of a Pyruvate Dehydrogenase-Dihydrolipoyl Acetyltransferase Subcomplex from the Escherichia coli Pyruvate Dehydrogenase Multienzyme Complex. Journal of Biological Chemistry, 2014, 289, 30161-30176.	3.4	19

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19	Underlying molecular alterations in human dihydrolipoamide dehydrogenase deficiency revealed by structural analyses of disease-causing enzyme variants. Human Molecular Genetics, 2019, 28, 3339-3354.	2.9	19
20	Active-site changes in the pyruvate dehydrogenase multienzyme complex E1 apoenzyme component fromEscherichia coliobserved at 2.32â€…Ã… resolution. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 1382-1386.	2.5	13
21	Pyruvate dehydrogenase complex deficiency is linked to regulatory loop disorder in the Î±V138M variant of human pyruvate dehydrogenase. Journal of Biological Chemistry, 2018, 293, 13204-13213.	3.4	13
22	Structural Adaptation in Its Orphan Domain Engenders Betaglycan with an Alternate Mode of Growth Factor Binding Relative to Endoglin. Structure, 2019, 27, 1427-1442.e4.	3.3	12
23	Multiple roles of mobile active center loops in the E1 component of the Escherichia coli pyruvate dehydrogenase complexâ€”Linkage of protein dynamics to catalysis. Journal of Molecular Catalysis B: Enzymatic, 2009, 61, 14-22.	1.8	11
24	Nectar-feeding bats and birds show parallel molecular adaptations in sugar metabolism enzymes. Current Biology, 2021, 31, 4667-4674.e6.	3.9	7