

On the Temperature Dependence of Enzyme-Catalyzed

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Citation Report

#	ARTICLE	IF	CITATIONS
3	Temperature Sensitivity as a Microbial Trait Using Parameters from Macromolecular Rate Theory. <i>Frontiers in Microbiology</i> , 2016, 7, 1821.	1.5	43
4	Temperature sensitivity of soil microbial communities: An application of macromolecular rate theory to microbial respiration. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1420-1433.	1.3	41
5	Logic Gate Based on Circular DNA Structure with Strand Displacement. <i>Communications in Computer and Information Science</i> , 2016, , 39-46.	0.4	0
6	Untangling Heavy Protein and Cofactor Isotope Effects on Enzyme-Catalyzed Hydride Transfer. <i>Journal of the American Chemical Society</i> , 2016, 138, 13693-13699.	6.6	26
7	Improved activity of Î±-chymotrypsin on silica particles – A high-pressure stopped-flow study. <i>Biophysical Chemistry</i> , 2016, 218, 1-6.	1.5	8
8	Ligand-induced conformational changes in prolyl oligopeptidase: a kinetic approach. <i>Protein Engineering, Design and Selection</i> , 2017, 30, 217-224.	1.0	3
9	On the indirect relationship between protein dynamics and enzyme activity. <i>Progress in Biophysics and Molecular Biology</i> , 2017, 125, 52-60.	1.4	10
10	Rapid laboratory measurement of the temperature dependence of soil respiration and application to changes in three diverse soils through the year. <i>Biogeochemistry</i> , 2017, 133, 101-112.	1.7	27
11	Computation of enzyme cold adaptation. <i>Nature Reviews Chemistry</i> , 2017, 1, .	13.8	75
12	Electric Fields and Enzyme Catalysis. <i>Annual Review of Biochemistry</i> , 2017, 86, 387-415.	5.0	298
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14	Evolutionary drivers of thermoadaptation in enzyme catalysis. <i>Science</i> , 2017, 355, 289-294.	6.0	147
15	Heat Capacity Changes for Transition-State Analogue Binding and Catalysis with Human 5â€²-Methylthioadenosine Phosphorylase. <i>ACS Chemical Biology</i> , 2017, 12, 464-473.	1.6	17
16	A cerium-based metalâ€“organic framework having inherent oxidase-like activity applicable for colorimetric sensing of biothiols and aerobic oxidation of thiols. <i>CrystEngComm</i> , 2017, 19, 5915-5925.	1.3	101
17	A complete thermodynamic analysis of enzyme turnover links the free energy landscape to enzyme catalysis. <i>FEBS Journal</i> , 2017, 284, 2829-2842.	2.2	39
18	Plasticity of Performance Curves Can Buffer Reaction Rates from Body Temperature Variation in Active Endotherms. <i>Frontiers in Physiology</i> , 2017, 8, 575.	1.3	14
19	The Thermodynamic Links between Substrate, Enzyme, and Microbial Dynamics in Michaelisâ€“Mentenâ€“Monod Kinetics. <i>International Journal of Chemical Kinetics</i> , 2018, 50, 343-356.	1.0	6
20	Hydrolysis of Phosphate Esters Catalyzed by Inorganic Iron Oxide Nanoparticles Acting as Biocatalysts. <i>Astrobiology</i> , 2018, 18, 294-310.	1.5	26

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21	Uncovering the Relationship between the Change in Heat Capacity for Enzyme Catalysis and Vibrational Frequency through Isotope Effect Studies. <i>ACS Catalysis</i> , 2018, 8, 5340-5349.	5.5	13
22	Dynamical origins of heat capacity changes in enzyme-catalysed reactions. <i>Nature Communications</i> , 2018, 9, 1177.	5.8	64
23	Thermodynamic responses of ammonia-oxidizing archaea and bacteria explain N ₂ O production from greenhouse vegetable soils. <i>Soil Biology and Biochemistry</i> , 2018, 120, 37-47.	4.2	67
24	Review: Engineering of thermostable enzymes for industrial applications. <i>APL Bioengineering</i> , 2018, 2, 011501.	3.3	202
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26	Macromolecular rate theory (MMRT) provides a thermodynamics rationale to underpin the convergent temperature response in plant leaf respiration. <i>Global Change Biology</i> , 2018, 24, 1538-1547.	4.2	35
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39	Enzyme Mimic Based on a Self-Assembled Chitosan/DNA Hybrid Exhibits Superior Activity and Tolerance. Chemistry - A European Journal, 2019, 25, 12576-12582.	1.7	21
41	Isotopically labeled flavoenzymes and their uses in probing reaction mechanisms. Methods in Enzymology, 2019, 620, 145-166.	0.4	2
42	Emergence of a Negative Activation Heat Capacity during Evolution of a Designed Enzyme. Journal of the American Chemical Society, 2019, 141, 11745-11748.	6.6	42
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54	Protein tolerance to random circular permutation correlates with thermostability and local energetics of residue-residue contacts. Protein Engineering, Design and Selection, 2019, 32, 489-501.	1.0	9
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66	Bowl-like Nanoreactors Composed of Packed Gold Nanoparticles Surrounded with Silica Nanosheets for a Photothermally Enhancing Enzymatic Reaction. <i>ACS Applied Nano Materials</i> , 2020, 3, 11465-11473.	2.4	3
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134	Minimal Pathway for the Regeneration of Redox Cofactors. <i>Jacs Au</i> , 2021, 1, 2280-2293.	3.6	14
135	Climate Change Impacts on Sunflower (<i>Helianthus annuus</i> L.) Plants. <i>Plants</i> , 2021, 10, 2646.	1.6	5
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