

Pirom Chenprakhon

List of Publications by Year in descending order

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18
papers

635
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759233

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all docs

19
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19
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711
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Multiple pathways guide oxygen diffusion into flavoenzyme active sites. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10603-10608. | 7.1 | 157 |
| 2 | Mechanism of Oxygen Activation in a Flavin-Dependent Monooxygenase: A Nearly Barrierless Formation of C4a-Hydroperoxyflavin via Proton-Coupled Electron Transfer. Journal of the American Chemical Society, 2015, 137, 9363-9374. | 13.7 | 70 |
| 3 | Monooxygenation of aromatic compounds by flavin-dependent monooxygenases. Protein Science, 2019, 28, 8-29. | 7.6 | 67 |
| 4 | Biotransformation of Plant-Derived Phenolic Acids. Biotechnology Journal, 2018, 13, 1700632. | 3.5 | 62 |
| 5 | Stabilization of C4a-Hydroperoxyflavin in a Two-component Flavin-dependent Monooxygenase Is Achieved through Interactions at Flavin N5 and C4a Atoms. Journal of Biological Chemistry, 2011, 286, 28170-28180. | 3.4 | 58 |
| 6 | <i>p</i> -Hydroxyphenylacetate 3-Hydroxylase as a Biocatalyst for the Synthesis of Trihydroxyphenolic Acids. ACS Catalysis, 2015, 5, 4492-4502. | 11.2 | 34 |
| 7 | Measuring Binding Affinity of Protein~Ligand Interaction Using Spectrophotometry: Binding of Neutral Red to Riboflavin-Binding Protein. Journal of Chemical Education, 2010, 87, 829-831. | 2.3 | 29 |
| 8 | Dissecting the low catalytic capability of flavin-dependent halogenases. Journal of Biological Chemistry, 2021, 296, 100068. | 3.4 | 26 |
| 9 | Enzymes in the <i>p</i> -hydroxyphenylacetate degradation pathway of <i>Acinetobacter baumannii</i> . Journal of Molecular Catalysis B: Enzymatic, 2016, 134, 353-366. | 1.8 | 19 |
| 10 | Control of C4a-Hydroperoxyflavin Protonation in the Oxygenase Component of <i>p</i> -Hydroxyphenylacetate-3-hydroxylase. Biochemistry, 2014, 53, 4084-4086. | 2.5 | 18 |
| 11 | Green and sustainable biocatalytic production of 3,4,5-trihydroxycinnamic acid from palm oil mill effluent. Process Biochemistry, 2017, 63, 122-129. | 3.7 | 14 |
| 12 | Lipase-Catalyzed Esterification: An Inquiry-Based Laboratory Activity To Promote High School Students's™ Understanding and Positive Perceptions of Green Chemistry. Journal of Chemical Education, 2019, 96, 1205-1211. | 2.3 | 14 |
| 13 | Protonation status and control mechanism of flavin's oxygen intermediates in the reaction of bacterial luciferase. FEBS Journal, 2021, 288, 3246-3260. | 4.7 | 13 |
| 14 | Hydroxylation of 4-hydroxyphenylethylamine derivatives by R263 variants of the oxygenase component of <i>p</i> -hydroxyphenylacetate-3-hydroxylase. Archives of Biochemistry and Biophysics, 2017, 620, 1-11. | 3.0 | 11 |
| 15 | Mechanistic insights into the dual activities of the single active site of l-lysine oxidase/monooxygenase from <i>Pseudomonas</i> sp. AU 813. Journal of Biological Chemistry, 2020, 295, 11246-11261. | 3.4 | 11 |
| 16 | Tuning of pK values activates substrates in flavin-dependent aromatic hydroxylases. Journal of Biological Chemistry, 2020, 295, 3965-3981. | 3.4 | 11 |
| 17 | An Experiment Illustrating the Change in Ligand K_a upon Protein Binding. Journal of Chemical Education, 2012, 89, 791-795. | 2.3 | 10 |
| 18 | Phenolic hydroxylases. The Enzymes, 2020, 47, 283-326. | 1.7 | 7 |