

Catherine L Drennan

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

523
citations

687363

13
h-index

677142

22
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28
all docs

28
docs citations

28
times ranked

617
citing authors

#	ARTICLE	IF	CITATIONS
1	Cobalamin-Dependent Radical <i>S</i> -Adenosylmethionine Enzymes: Capitalizing on Old Motifs for New Functions. ACS Bio & Med Chem Au, 2022, 2, 173-186.	3.7	24
2	Ribonucleotide reductase, a novel drug target for gonorrhoea. ELife, 2022, 11, .	6.0	8
3	The Atypical Cobalamin-Dependent <i>S</i> -Adenosyl-Methionine Nonradical Methylase TsrM and Its Radical Counterparts. Journal of the American Chemical Society, 2022, 144, 5673-5684.	13.7	6
4	A rapid and sensitive assay for quantifying the activity of both aerobic and anaerobic ribonucleotide reductases acting upon any or all substrates. PLoS ONE, 2022, 17, e0269572.	2.5	0
5	Gated Proton Release during Radical Transfer at the Subunit Interface of Ribonucleotide Reductase. Journal of the American Chemical Society, 2021, 143, 176-183.	13.7	14
6	Biochemical and crystallographic investigations into isonitrile formation by a nonheme iron-dependent oxidase/decarboxylase. Journal of Biological Chemistry, 2021, 296, 100231.	3.4	16
7	Crystal Structure of the [4Fe-4S] Cluster-Containing Adenosine-5-phosphosulfate Reductase from <i>Mycobacterium tuberculosis</i> . ACS Omega, 2021, 6, 13756-13765.	3.5	1
8	Crystallographic Characterization of the Carbonylated A-Cluster in Carbon Monoxide Dehydrogenase/Acetyl-CoA Synthase. ACS Catalysis, 2020, 10, 9741-9746.	11.2	19
9	A Stable Ferryl Porphyrin at the Active Site of Y463M BthA. Journal of the American Chemical Society, 2020, 142, 11978-11982.	13.7	1
10	The Solvent-Exposed Fe-S D-Cluster Contributes to Oxygen-Resistance in <i>Desulfovibrio vulgaris</i> Ni-Fe Carbon Monoxide Dehydrogenase. ACS Catalysis, 2020, 10, 7328-7335.	11.2	18
11	Structure of a trapped radical transfer pathway within a ribonucleotide reductase holocomplex. Science, 2020, 368, 424-427.	12.6	82
12	Discovery of a Cyclic Choline Analog That Inhibits Anaerobic Choline Metabolism by Human Gut Bacteria. ACS Medicinal Chemistry Letters, 2020, 11, 1980-1985.	2.8	13
13	Conformational Motions and Water Networks at the \pm Interface in E. coli Ribonucleotide Reductase. Journal of the American Chemical Society, 2020, 142, 13768-13778.	13.7	21
14	Molecular basis for catabolism of the abundant metabolite trans-4-hydroxy-L-proline by a microbial glycol radical enzyme. ELife, 2020, 9, .	6.0	16
15	Structural insight into metal cofactor maturation in carbon monoxide dehydrogenase. Journal of Biological Chemistry, 2019, 294, 13017-13026.	3.4	15
16	Solution structure and biochemical characterization of a spare part protein that restores activity to an oxygen-damaged glycol radical enzyme. Journal of Biological Inorganic Chemistry, 2019, 24, 817-829.	2.6	14
17	X-ray crystallography-based structural elucidation of enzyme-bound intermediates along the 1-deoxy-d-xylulose 5-phosphate synthase reaction coordinate. Journal of Biological Chemistry, 2019, 294, 12405-12414.	3.4	24
18	A widely distributed diheme enzyme from Burkholderia that displays an atypically stable bis-Fe(IV) state. Nature Communications, 2019, 10, 1101.	12.8	20

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19	Structural and Biochemical Investigations of the [4Fe-4S] Cluster-Containing Fumarate Hydratase from <i>Leishmania major</i> . <i>Biochemistry</i> , 2019, 58, 5011-5021.	2.5	6
20	Structure-Guided Identification of a Small Molecule That Inhibits Anaerobic Choline Metabolism by Human Gut Bacteria. <i>Journal of the American Chemical Society</i> , 2019, 141, 33-37.	13.7	39
21	Crystal Structures of Fumarate Hydratases from <i>Leishmania major</i> in a Complex with Inhibitor 2-Thiomalate. <i>ACS Chemical Biology</i> , 2019, 14, 266-275.	3.4	6
22	Crystal structure of AdoMet radical enzyme 7-carboxy-7-deazaguanine synthase from <i>Escherichia coli</i> suggests how modifications near [4Fe-4S] cluster engender flavodoxin specificity. <i>Protein Science</i> , 2019, 28, 202-215.	7.6	11
23	Redox-dependent rearrangements of the NiFeS cluster of carbon monoxide dehydrogenase. <i>ELife</i> , 2018, 7, .	6.0	43
24	Biochemical and Structural Characterization of a Schiff Base in the Radical-Mediated Biosynthesis of 4-Demethylwyosine by TYW1. <i>Journal of the American Chemical Society</i> , 2018, 140, 6842-6852.	13.7	13
25	3.3-Å... resolution cryo-EM structure of human ribonucleotide reductase with substrate and allosteric regulators bound. <i>ELife</i> , 2018, 7, .	6.0	37
26	Biophysical Examination of the Calcium-Modulated Nickel-Binding Properties of Human Calprotectin Reveals Conformational Change in the EF-Hand Domains and His ³ Asp Site. <i>Biochemistry</i> , 2018, 57, 4155-4164.	2.5	13
27	Structural basis for methylphosphonate biosynthesis. <i>Science</i> , 2017, 358, 1336-1339.	12.6	39