Gunhild Layer

List of Publications by Year
in descending order

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		567281	642732
25	1,130	15	23
papers	citations	h-index	g-index

27	27	27	1268
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Radical SAM Enzymes Involved in Tetrapyrrole Biosynthesis and Insertion. ACS Bio & Med Chem Au, 2022, 2, 196-204.	3.7	5
2	A Cobalaminâ€Dependent Radical SAM Enzyme Catalyzes the Unique C_{Î±}â€Methylation of Glutamine in Methylâ€Coenzymeâ€…M Reductase. Angewandte Chemie - International Edition, 2022, 61, .	13.8	8
3	Crystal structure of NirF: insights into its role in heme d₁ biosynthesis. FEBS Journal, 2021, 288, 244-261.	4.7	3
4	Heme biosynthesis in prokaryotes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 118861.	4.1	40
5	Radical S-Adenosylmethionine Enzymes in Heme Biosynthesis. , 2020, , 349-363.		2
6	Identification and characterization of a bacterial core methionine synthase. Scientific Reports, 2020, 10, 2100.	3.3	9
7	Chimeric Interaction of Nitrogenaseâ€Like Reductases with the MoFe Protein of Nitrogenase. ChemBioChem, 2020, 21, 1733-1741.	2.6	5
8	Crystal Structure of Dihydro-Heme d1 Dehydrogenase NirN from Pseudomonas aeruginosa Reveals Amino Acid Residues Essential for Catalysis. Journal of Molecular Biology, 2019, 431, 3246-3260.	4.2	14
9	Enzymatic Systems with Homology to Nitrogenase: Biosynthesis of Bacteriochlorophyll and Coenzyme F430. Methods in Molecular Biology, 2019, 1876, 25-35.	0.9	4
10	Identification of a unique Radical SAM methyltransferase required for the sp3-C-methylation of an arginine residue of methyl-coenzyme M reductase. Scientific Reports, 2018, 8, 7404.	3.3	34
11	Elucidation of the biosynthesis of the methane catalyst coenzyme F430. Nature, 2017, 543, 78-82.	27.8	104
12	The Radical <scp>SAM</scp> enzyme NirJ catalyzes the removal of two propionate side chains during heme d₁ biosynthesis. FEBS Journal, 2017, 284, 4314-4327.	4.7	17
13	The auxiliary [4Feâ€“4S] cluster of the Radical SAM heme synthase from Methanosarcina barkeri is involved in electron transfer. Chemical Science, 2016, 7, 4633-4643.	7.4	19
14	The Alternative Route to Heme in the Methanogenic ArchaeonMethanosarcina barkeri. Archaea, 2014, 2014, 1-13.	2.3	47
15	The Crystal Structure of Siroheme Decarboxylase in Complex with Iron-Uroporphyrin III Reveals Two Essential Histidine Residues. Journal of Molecular Biology, 2014, 426, 3272-3286.	4.2	15
16	NirN Protein from Pseudomonas aeruginosa is a Novel Electron-bifurcating Dehydrogenase Catalyzing the Last Step of Heme d1 Biosynthesis. Journal of Biological Chemistry, 2014, 289, 30753-30762.	3.4	26
17	Maturation of the cytochrome cd1 nitrite reductase NirS from Pseudomonas aeruginosa requires transient interactions between the three proteins NirS, NirN and NirF. Bioscience Reports, 2013, 33, .	2.4	26
18	Structure and function of enzymes in heme biosynthesis. Protein Science, 2010, 19, 1137-1161.	7.6	264

#	Article	IF	Citations
19	A Novel Pathway for the Biosynthesis of Heme inArchaea: Genome-Based Bioinformatic Predictions and Experimental Evidence. Archaea, 2010, 2010, 1-15.	2.3	56
20	The Pseudomonasâ€ƒaeruginosa nirE gene encodes the Sâ€adenosylâ€<scp>L</scp>â€methionineâ€dependent uroporphyrinogen III methyltransferase required for heme d₁ biosynthesis. FEBS Journal, 2009, 276, 5973-5982.	4.7	33
21	The Substrate Radical of Escherichia coli Oxygen-independent Coproporphyrinogen III Oxidase HemN. Journal of Biological Chemistry, 2006, 281, 15727-15734.	3.4	73
22	Structural and functional comparison of HemN to other radical SAM enzymes. Biological Chemistry, 2005, 386, 971-80.	2.5	47
23	Crystal structure of coproporphyrinogen III oxidase reveals cofactor geometry of Radical SAM enzymes. EMBO Journal, 2003, 22, 6214-6224.	7.8	259
24	Co-ordination of iron acquisition, iron porphyrin chelation and ironâ€“protoporphyrin export via the cytochrome c biogenesis protein CcmC in Pseudomonas fluorescens. Microbiology (United Kingdom), 2003, 149, 3543-3552.	1.8	20
25	A Cobalaminâ€Dependent Radical SAM Enzyme Catalyzes the Unique CÎ±â€Methylation of Glutamine in Methylâ€Coenzyme M Reductase. Angewandte Chemie, 0, , .	2.0	0