

# Gunhild Layer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/443707/publications.pdf>

Version: 2024-02-01

25  
papers

1,130  
citations

567281

15  
h-index

642732

23  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1268  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and function of enzymes in heme biosynthesis. <i>Protein Science</i> , 2010, 19, 1137-1161.	7.6	264
2	Crystal structure of coproporphyrinogen III oxidase reveals cofactor geometry of Radical SAM enzymes. <i>EMBO Journal</i> , 2003, 22, 6214-6224.	7.8	259
3	Elucidation of the biosynthesis of the methane catalyst coenzyme F430. <i>Nature</i> , 2017, 543, 78-82.	27.8	104
4	The Substrate Radical of <i>Escherichia coli</i> Oxygen-independent Coproporphyrinogen III Oxidase HemN. <i>Journal of Biological Chemistry</i> , 2006, 281, 15727-15734.	3.4	73
5	A Novel Pathway for the Biosynthesis of Heme in <i>Archaea</i> : Genome-Based Bioinformatic Predictions and Experimental Evidence. <i>Archaea</i> , 2010, 2010, 1-15.	2.3	56
6	Structural and functional comparison of HemN to other radical SAM enzymes. <i>Biological Chemistry</i> , 2005, 386, 971-80.	2.5	47
7	The Alternative Route to Heme in the Methanogenic Archaeon <i>Methanosarcina barkeri</i> . <i>Archaea</i> , 2014, 2014, 1-13.	2.3	47
8	Heme biosynthesis in prokaryotes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2021, 1868, 118861.	4.1	40
9	Identification of a unique Radical SAM methyltransferase required for the sp <sup>3</sup> -C-methylation of an arginine residue of methyl-coenzyme M reductase. <i>Scientific Reports</i> , 2018, 8, 7404.	3.3	34
10	The <i>Pseudomonas aeruginosa</i> nirE gene encodes the S-adenosyl-L-methionine-dependent uroporphyrinogen III methyltransferase required for heme d <sub>1</sub> biosynthesis. <i>FEBS Journal</i> , 2009, 276, 5973-5982.	4.7	33
11	Maturation of the cytochrome c <sub>1</sub> nitrite reductase NirS from <i>Pseudomonas aeruginosa</i> requires transient interactions between the three proteins NirS, NirN and NirF. <i>Bioscience Reports</i> , 2013, 33, .	2.4	26
12	NirN Protein from <i>Pseudomonas aeruginosa</i> is a Novel Electron-bifurcating Dehydrogenase Catalyzing the Last Step of Heme d <sub>1</sub> Biosynthesis. <i>Journal of Biological Chemistry</i> , 2014, 289, 30753-30762.	3.4	26
13	Co-ordination of iron acquisition, iron porphyrin chelation and iron-protoporphyrin export via the cytochrome c biogenesis protein CcmC in <i>Pseudomonas fluorescens</i> . <i>Microbiology (United Kingdom)</i> , 2003, 149, 3543-3552.	1.8	20
14	The auxiliary [4Fe-4S] cluster of the Radical SAM heme synthase from <i>Methanosarcina barkeri</i> is involved in electron transfer. <i>Chemical Science</i> , 2016, 7, 4633-4643.	7.4	19
15	The Radical SAM enzyme NirJ catalyzes the removal of two propionate side chains during heme d <sub>1</sub> biosynthesis. <i>FEBS Journal</i> , 2017, 284, 4314-4327.	4.7	17
16	The Crystal Structure of Siroheme Decarboxylase in Complex with Iron-Uroporphyrin III Reveals Two Essential Histidine Residues. <i>Journal of Molecular Biology</i> , 2014, 426, 3272-3286.	4.2	15
17	Crystal Structure of Dihydro-Heme d <sub>1</sub> Dehydrogenase NirN from <i>Pseudomonas aeruginosa</i> Reveals Amino Acid Residues Essential for Catalysis. <i>Journal of Molecular Biology</i> , 2019, 431, 3246-3260.	4.2	14
18	Identification and characterization of a bacterial core methionine synthase. <i>Scientific Reports</i> , 2020, 10, 2100.	3.3	9

#	ARTICLE	IF	CITATIONS
19	A Cobalamin-Dependent Radical SAM Enzyme Catalyzes the Unique C <sup>1±</sup> -Methylation of Glutamine in Methyl-Coenzyme M Reductase. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	8
20	Chimeric Interaction of Nitrogenase-Like Reductases with the MoFe Protein of Nitrogenase. <i>ChemBioChem</i> , 2020, 21, 1733-1741.	2.6	5
21	Radical SAM Enzymes Involved in Tetrapyrrole Biosynthesis and Insertion. <i>ACS Bio &amp; Med Chem Au</i> , 2022, 2, 196-204.	3.7	5
22	Enzymatic Systems with Homology to Nitrogenase: Biosynthesis of Bacteriochlorophyll and Coenzyme F430. <i>Methods in Molecular Biology</i> , 2019, 1876, 25-35.	0.9	4
23	Crystal structure of NirF: insights into its role in heme <i>d</i> <sub>1</sub> biosynthesis. <i>FEBS Journal</i> , 2021, 288, 244-261.	4.7	3
24	Radical S-Adenosylmethionine Enzymes in Heme Biosynthesis. , 2020, , 349-363.		2
25	A Cobalamin-Dependent Radical SAM Enzyme Catalyzes the Unique C <sup>1±</sup> -Methylation of Glutamine in Methyl-Coenzyme M Reductase. <i>Angewandte Chemie</i> , 0, , .	2.0	0