Martin J Warren

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5280994/publications.pdf

Version: 2024-02-01

174 papers	9,749 citations	36303 51 h-index	46799 89 g-index
187 all docs	187 docs citations	187 times ranked	7598 citing authors

#	Article	IF	Citations
1	Biosynthesis of cobamides: Methods for the detection, analysis and production of cobamides and biosynthetic intermediates. Methods in Enzymology, 2022, 668, 3-23.	1.0	0
2	Exploring the onset of <scp>B₁₂</scp>â€based mutualisms using a recently evolved <scp>Chlamydomonas</scp> auxotroph and <scp>B₁₂</scp>â€producing bacteria. Environmental Microbiology, 2022, 24, 3134-3147.	3.8	14
3	The requirement for cobalt in vitamin B12: A paradigm for protein metalation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2021, 1868, 118896.	4.1	58
4	Cofactors and Coenzymes | Biosynthesis of Vitamin B12 (Cobalamin) and Related Corrinoids. , 2021, , 321-333.		0
5	Calculating metalation in cells reveals CobW acquires CoII for vitamin B12 biosynthesis while related proteins prefer ZnII. Nature Communications, 2021, 12, 1195.	12.8	32
6	Red Fluorescence of European Hedgehog (Erinaceus europaeus) Spines Results from Free-Base Porphyrins of Potential Microbial Origin. Journal of Chemical Ecology, 2021, 47, 588-596.	1.8	10
7	Bioenergetics Theory and Components | Heme Synthesis Three Ways. , 2021, , 74-88.		1
8	Synthesis, Spectral Characterization and Crystal Structure of Chlororhodibalamin: A Synthesis Platform for Rhodium Analogues of Vitamin B12 and for Rh-Based Antivitamins B12. Synthesis, 2021, 53, 332-337.	2.3	9
9	Plasmodium falciparum hydroxymethylbilane synthase does not house any cosynthase activity within the haem biosynthetic pathway. Microbiology (United Kingdom), 2021, 167, .	1.8	0
10	Editorial overview: Bacterial microcompartments to the fore as metabolism is put in its place. Current Opinion in Microbiology, 2021, 64, 159-161.	5.1	0
11	New Insights Into the Biosynthesis of Cobamides and Their Use. , 2020, , 364-394.		4
12	Replacement of the Cobalt Center of Vitamin B₁₂ by Nickel: Nibalamin and Nibyric Acid Prepared from Metalâ€Free B₁₂â€...Ligands Hydrogenobalamin and Hydrogenobyric Acid. Angewandte Chemie - International Edition, 2020, 59, 20129-20136.	13.8	18
13	Replacement of the Cobalt Center of Vitamin B₁₂ by Nickel: Nibalamin and Nibyric Acid Prepared from Metalâ€Free B₁₂â€...Ligands Hydrogenobalamin and Hydrogenobyric Acid. Angewandte Chemie, 2020, 132, 20304-20311.	2.0	2
14	Effect of metabolosome encapsulation peptides on enzyme activity, coaggregation, incorporation, and bacterial microcompartment formation. MicrobiologyOpen, 2020, 9, e1010.	3.0	14
15	Biosynthesis of the modified tetrapyrrolesâ€"the pigments of life. Journal of Biological Chemistry, 2020, 295, 6888-6925.	3.4	170
16	Using sliding mode observers to estimate BtuB concentration from measured vitamin B 12 concentration. IET Systems Biology, 2020, 14, 334-342.	1.5	0
17	Zinc Substitution of Cobalt in Vitaminâ€...B12: Zincobyric acid and Zincobalamin as Luminescent Structural B12â€Mimics. Angewandte Chemie - International Edition, 2019, 58, 14568-14572.	13.8	25
18	Zinc Substitution of Cobalt in Vitaminâ€...B12: Zincobyric acid and Zincobalamin as Luminescent Structural B12â€Mimics. Angewandte Chemie, 2019, 131, 14710-14714.	2.0	4

#	Article	IF	Citations
19	Die HydrogenobyrsÃureâ€Struktur enthÃ¼llt den Corrinâ€Liganden als entatisches Zustandsmodul zur Steigerung der KatalyseaktivitÃt von B₁₂â€Cofaktoren. Angewandte Chemie, 2019, 131, 10869-10873.	2.0	8
20	Bacterial sensors define intracellular free energies for correct enzyme metalation. Nature Chemical Biology, 2019, 15, 241-249.	8.0	112
21	Bacterial Microcompartment-Mediated Ethanolamine Metabolism in Escherichia coli Urinary Tract Infection. Infection and Immunity, 2019, 87, .	2.2	21
22	The Hydrogenobyric Acid Structure Reveals the Corrin Ligand as an Entatic State Module Empowering B₁₂ Cofactors for Catalysis. Angewandte Chemie - International Edition, 2019, 58, 10756-10760.	13.8	30
23	Biotechnological Advances in Bacterial Microcompartment Technology. Trends in Biotechnology, 2019, 37, 325-336.	9.3	43
24	A Generic Selfâ€Assembly Process in Microcompartments and Synthetic Protein Nanotubes. Small, 2018, 14, e1704020.	10.0	43
25	Engineered synthetic scaffolds for organizing proteins within the bacterial cytoplasm. Nature Chemical Biology, 2018, 14, 142-147.	8.0	128
26	Understanding the Control of a Vitamin B<inf>12</inf> Riboswitch. , 2018, , .		2
27	De novo targeting to the cytoplasmic and luminal side of bacterial microcompartments. Nature Communications, 2018, 9, 3413.	12.8	39
28	Construction of Fluorescent Analogs to Follow the Uptake and Distribution of Cobalamin (Vitamin) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.2	30
29	Staphylococcus aureus haem biosynthesis and acquisition pathways are linked through haem monooxygenase IsdG. Molecular Microbiology, 2018, 109, 385-400.	2.5	18
30	Vitamin B12. Advances in Food and Nutrition Research, 2018, 83, 215-279.	3.0	105
31	Bacterial microcompartmentâ€directed polyphosphate kinase promotes stable polyphosphate accumulation in E. coli. Biotechnology Journal, 2017, 12, 1600415.	3.5	53
32	Prokaryotic Heme Biosynthesis: Multiple Pathways to a Common Essential Product. Microbiology and Molecular Biology Reviews, 2017, 81, .	6.6	236
33	Elucidation of the biosynthesis of the methane catalyst coenzyme F430. Nature, 2017, 543, 78-82.	27.8	104
34	Construction of Recombinant Pdu Metabolosome Shells for Small Molecule Production in Corynebacterium glutamicum. ACS Synthetic Biology, 2017, 6, 2145-2156.	3.8	41
35	Desulfovibrio vulgaris CbiK P cobaltochelatase: evolution of a haem binding protein orchestrated by the incorporation of two histidine residues. Environmental Microbiology, 2017, 19, 106-118.	3.8	9
36	Effect of bio-engineering on size, shape, composition and rigidity of bacterial microcompartments. Scientific Reports, 2016, 6, 36899.	3.3	31

#	Article	IF	Citations
37	Total Synthesis, Structure, and Biological Activity of Adenosylrhodibalamin, the Nonâ€Natural Rhodium Homologue of Coenzyme B₁₂. Angewandte Chemie - International Edition, 2016, 55, 11281-11286.	13.8	42
38	Totalsynthese, Struktur und biologische AktivitÃt von Adenosylrhodibalamin, dem unnatÃ¼rlichen Rhodiumhomologen von Coenzymâ€...B₁₂. Angewandte Chemie, 2016, 128, 11451-11456.	2.0	7
39	Employing bacterial microcompartment technology to engineer a shell-free enzyme-aggregate for enhanced 1,2-propanediol production in Escherichia coli. Metabolic Engineering, 2016, 36, 48-56.	7.0	74
40	Crystal structure of CobK reveals strand-swapping between Rossmann-fold domains and molecular basis of the reduced precorrin product trap. Scientific Reports, 2015, 5, 16943.	3.3	7
41	<scp>S</scp>taphylococcus aureus haem biosynthesis: characterisation of the enzymes involved in final steps of the pathway. Molecular Microbiology, 2015, 97, 472-487.	2.5	66
42	FAD binding, cobinamide binding and active site communication in the corrin reductase (CobR). Bioscience Reports, 2014, 34, .	2.4	6
43	Identification and characterization of the â€˜missingâ€™ terminal enzyme for siroheme biosynthesis in Î±â€proteobacteria. Molecular Microbiology, 2014, 92, 153-163.	2.5	20
44	Structural Insights into Higher Order Assembly and Function of the Bacterial Microcompartment Protein PduA. Journal of Biological Chemistry, 2014, 289, 22377-22384.	3.4	77
45	Recent advances in the biosynthesis of modified tetrapyrroles: the discovery of an alternative pathway for the formation of heme and heme d 1. Cellular and Molecular Life Sciences, 2014, 71, 2837-2863.	5.4	54
46	Towards a cell factory for vitamin B12 production in Bacillus megaterium: bypassing of the cobalamin riboswitch control elements. New Biotechnology, 2014, 31, 553-561.	4.4	38
47	The structure, function and properties of sirohaem decarboxylase â€“ an enzyme with structural homology to a transcription factor family that is part of the alternative haem biosynthesis pathway. Molecular Microbiology, 2014, 93, 247-261.	2.5	14
48	Making haem b in a different way. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, e55.	1.0	0
49	Solution Structure of a Bacterial Microcompartment Targeting Peptide and Its Application in the Construction of an Ethanol Bioreactor. ACS Synthetic Biology, 2014, 3, 454-465.	3.8	175
50	Characterisation of Desulfovibrio vulgaris haem b synthase, a radical SAM family member. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1238-1247.	2.3	23
51	Bacterial microcompartments moving into a synthetic biological world. Journal of Biotechnology, 2013, 163, 273-279.	3.8	92
52	Characterization of the Enzyme CbiH60 Involved in Anaerobic Ring Contraction of the Cobalamin (Vitamin B12) Biosynthetic Pathway. Journal of Biological Chemistry, 2013, 288, 297-305.	3.4	19
53	Elucidation of the anaerobic pathway for the corrin component of cobalamin (vitamin B) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 2013, 110, 14906-14911.	7.1	88
54	Bacillus megaterium Has Both a Functional BluB Protein Required for DMB Synthesis and a Related Flavoprotein That Forms a Stable Radical Species. PLoS ONE, 2013, 8, e55708.	2.5	20

#	Article	IF	Citations
55	Characterization of the evolutionarily conserved ironâ€“sulfur cluster of sirohydrochlorin ferrochelatase from Arabidopsis thaliana. Biochemical Journal, 2012, 444, 227-237.	3.7	19
56	The anaerobic biosynthesis of vitamin B12. Biochemical Society Transactions, 2012, 40, 581-586.	3.4	75
57	Sulfate-Reducing Bacteria Reveal a New Branch of Tetrapyrrole Metabolism. Advances in Microbial Physiology, 2012, 61, 267-295.	2.4	12
58	An enzyme-trap approach allows isolation of intermediates in cobalamin biosynthesis. Nature Chemical Biology, 2012, 8, 933-940.	8.0	62
59	Characterization of Cupriavidusâ€ƒmetallidurans CYP116B1 â€“ A thiocarbamate herbicide oxygenating P450â€“phthalate dioxygenase reductase fusion protein. FEBS Journal, 2012, 279, 1675-1693.	4.7	37
60	Bacterial ferrochelatase turns human: Tyr13 determines the apparent metal specificity of Bacillus subtilis ferrochelatase. Journal of Biological Inorganic Chemistry, 2011, 16, 235-242.	2.6	14
61	Structure of PduT, a trimeric bacterial microcompartment protein with a 4Feâ€“4S cluster-binding site. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 91-96.	2.5	62
62	Evolution in a family of chelatases facilitated by the introduction of active site asymmetry and protein oligomerization. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 97-102.	7.1	43
63	Molecular hijacking of siroheme for the synthesis of heme and d ₁ heme. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18260-18265.	7.1	121
64	NirJ, a radical SAM family member of the d₁ heme biogenesis cluster. FEBS Letters, 2010, 584, 2461-2466.	2.8	27
65	Metabolic engineering of cobalamin (vitamin B₁₂) production in Bacillus megaterium. Microbial Biotechnology, 2010, 3, 24-37.	4.2	75
66	Cloning, purification and preliminary crystallographic analysis of cobalamin methyltransferases fromRhodobacter capsulatus. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 1652-1656.	0.7	2
67	NirF is a periplasmic protein that binds d₁ heme as part of its essential role in d₁ heme biogenesis. FEBS Journal, 2010, 277, 4944-4955.	4.7	16
68	A Novel Pathway for the Biosynthesis of Heme inArchaea: Genome-Based Bioinformatic Predictions and Experimental Evidence. Archaea, 2010, 2010, 1-15.	2.3	56
69	A short story about a big magic bug. Bioengineered Bugs, 2010, 1, 85-91.	1.7	53
70	Biosynthesis of Heme and Vitamin B12. , 2010, , 445-499.		5
71	Synthesis of Empty Bacterial Microcompartments, Directed Organelle Protein Incorporation, and Evidence of Filament-Associated Organelle Movement. Molecular Cell, 2010, 38, 305-315.	9.7	200
72	Characterisation of PduS, the pdu Metabolosome Corrin Reductase, and Evidence of Substructural Organisation within the Bacterial Microcompartment. PLoS ONE, 2010, 5, e14009.	2.5	36

#	Article	IF	Citations
73	Demonstration That CobG, the Monooxygenase Associated with the Ring Contraction Process of the Aerobic Cobalamin (Vitamin B12) Biosynthetic Pathway, Contains an Fe-S Center and a Mononuclear Non-heme Iron Center. Journal of Biological Chemistry, 2009, 284, 4796-4805.	3.4	16
74	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
75	d₁â€haem biogenesis â€“ assessing the roles of three nir gene products. FEBS Journal, 2009, 276, 6399-6411.	4.7	40
76	Ironâ€“sulfur cluster dynamics in biotin synthase: A new [2Feâ€“2S]1+ cluster. Biochemical and Biophysical Research Communications, 2009, 381, 487-490.	2.1	7
77	The AAA+ motor complex of subunits CobS and CobT of cobaltochelatase visualized by single particle electron microscopy. Journal of Structural Biology, 2009, 167, 227-234.	2.8	38
78	Structure of a trimeric bacterial microcompartment shell protein, EtuB, associated with ethanol utilization inClostridium kluyveri. Biochemical Journal, 2009, 423, 199-207.	3.7	80
79	Functional characterization of the early steps of tetrapyrrole biosynthesis and modification in Desulfovibrio vulgaris Hildenborough. Biochemical Journal, 2009, 420, 317-326.	3.7	37
80	Tetrapyrroles. , 2009, , .		35
81	Vitamin B12: Biosynthesis of the Corrin Ring. , 2009, , 286-299.		4
82	Biosynthesis of Siroheme and Coenzyme F430. , 2009, , 344-351.		5
83	Vitamin B12 (Cobalamin) Biosynthesis in the Purple Bacteria. Advances in Photosynthesis and Respiration, 2009, , 81-95.	1.0	6
84	Biochemical and Structural Insights into Bacterial Organelle Form and Biogenesis. Journal of Biological Chemistry, 2008, 283, 14366-14375.	3.4	133
85	Lactobacillus reuteri DSM 20016 Produces Cobalamin-Dependent Diol Dehydratase in Metabolosomes and Metabolizes 1,2-Propanediol by Disproportionation. Journal of Bacteriology, 2008, 190, 4559-4567.	2.2	131
86	Two Distinct Roles for Two Functional Cobaltochelatases (CbiK) in Desulfovibrio vulgaris Hildenborough. Biochemistry, 2008, 47, 5851-5857.	2.5	23
87	Identification, Characterization, and Structure/Function Analysis of a Corrin Reductase Involved in Adenosylcobalamin Biosynthesis. Journal of Biological Chemistry, 2008, 283, 10813-10821.	3.4	29
88	Structure and function of SirC from Bacillus megaterium: a metal-binding precorrin-2 dehydrogenase. Biochemical Journal, 2008, 415, 257-263.	3.7	19
89	Biosynthesis and Use of Cobalamin (B ₁₂). EcoSal Plus, 2008, 3, .	5.4	18
90	Dominant Cone and Cone-Rod Dystrophies: Functional Analysis of Mutations in RetGC1 and GCAP1. Novartis Foundation Symposium, 2008, 255, 37-50.	1.1	5

#	Article	IF	Citations
91	Enzyme Sequence and Its Relationship to Hyperbaric Stability of Artificial and Natural Fish Lactate Dehydrogenases. PLoS ONE, 2008, 3, e2042.	2.5	34
92	Disease mechanism for retinitis pigmentosa (RP11) caused by missense mutations in the splicing factor gene PRPF31. Molecular Vision, 2008, 14, 683-90.	1.1	26
93	Elucidation of Substrate Specificity in the Cobalamin (Vitamin B12) Biosynthetic Methyltransferases. Journal of Biological Chemistry, 2007, 282, 23957-23969.	3.4	26
94	Evolution of enzymes and pathways for the biosynthesis of cofactors. Natural Product Reports, 2007, 24, 972.	10.3	62
95	Ironâ€“sulfur proteins as initiators of radical chemistry. Natural Product Reports, 2007, 24, 1027.	10.3	36
96	Roles of vitamins B5, B8, B9, B12 and molybdenum cofactor at cellular and organismal levels. Natural Product Reports, 2007, 24, 949.	10.3	42
97	Metal and cofactor insertion. Natural Product Reports, 2007, 24, 963.	10.3	38
98	Biotin Synthase Mechanism:Â Mutagenesis of the YNHNLD Conserved Motifâ€,â€¡. Biochemistry, 2006, 45, 12274-12281.	2.5	15
99	A study of the nuclear trafficking of the splicing factor protein PRPF31 linked to autosomal dominant retinitis pigmentosa (ADRP). Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2006, 1762, 304-311.	3.8	18
100	Interactions of RadB, a DNA Repair Protein in Archaea, with DNA and ATP. Journal of Molecular Biology, 2006, 358, 46-56.	4.2	38
101	Crystal Structure of the Vitamin B12 Biosynthetic Cobaltochelatase, CbiXS, from Archaeoglobus Fulgidus. Journal of Structural and Functional Genomics, 2006, 7, 37-50.	1.2	30
102	The Substrate Radical of Escherichia coli Oxygen-independent Coproporphyrinogen III Oxidase HemN. Journal of Biological Chemistry, 2006, 281, 15727-15734.	3.4	73
103	Finding the final pieces of the vitamin B12 biosynthetic jigsaw. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4799-4800.	7.1	18
104	Algae Need Their Vitamins. Eukaryotic Cell, 2006, 5, 1175-1183.	3.4	385
105	Algae acquire vitamin B12 through a symbiotic relationship with bacteria. Nature, 2005, 438, 90-93.	27.8	1,258
106	Crystallization and preliminary structure analysis of CobE, an essential protein of cobalamin (vitamin) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 442-444.	0.7	2
107	Identification and Characterization of the Terminal Enzyme of Siroheme Biosynthesis from Arabidopsis thaliana. Journal of Biological Chemistry, 2005, 280, 4713-4721.	3.4	42
108	Identification and Characterization of a Novel Vitamin B12 (Cobalamin) Biosynthetic Enzyme (CobZ) from Rhodobacter capsulatus, Containing Flavin, Heme, and Fe-S Cofactors. Journal of Biological Chemistry, 2005, 280, 1086-1094.	3.4	52

#	Article	IF	Citations
109	King George III and porphyria: an elemental hypothesis and investigation. Lancet, The, 2005, 366, 332-335.	13.7	38
110	The dimeric form of flavocytochrome P450 BM3 is catalytically functional as a fatty acid hydroxylase. FEBS Letters, 2005, 579, 5582-5588.	2.8	107
111	Cobalamin Synthesis in Yersinia enterocolitica 8081. Advances in Experimental Medicine and Biology, 2004, 529, 43-46.	1.6	9
112	Structure/Function Studies on a S-Adenosyl-l-methionine-dependent Uroporphyrinogen III C Methyltransferase (SUMT), a Key Regulatory Enzyme of Tetrapyrrole Biosynthesis. Journal of Molecular Biology, 2004, 344, 419-433.	4.2	56
113	The Biosynthesis of Hemes, Siroheme, Vitamin B12 and Linear Tetrapyrroles in Pseudomonads. , 2004, , 111-146.		2
114	CysG structure reveals tetrapyrrole-binding features and novel regulation of siroheme biosynthesis. Nature Structural and Molecular Biology, 2003, 10, 1064-1073.	8.2	78
115	Characterization of the Cobaltochelatase CbiXL. Journal of Biological Chemistry, 2003, 278, 41900-41907.	3.4	49
116	A Story of Chelatase Evolution. Journal of Biological Chemistry, 2003, 278, 22388-22395.	3.4	93
117	X-ray structure of a putative reaction intermediate of 5-aminolaevulinic acid dehydratase. Biochemical Journal, 2003, 373, 733-738.	3.7	29
118	Identification and functional analysis of enzymes required for precorrin-2 dehydrogenation and metal ion insertion in the biosynthesis of sirohaem and cobalamin in Bacillus megaterium. Biochemical Journal, 2003, 370, 505-516.	3.7	93
119	Enzymatic Preparation of Tetrapyrrole Intermediates. , 2002, , 69-93.		0
120	Disease mechanism for retinitis pigmentosa (RP11) caused by mutations in the splicing factor gene PRPF31. Human Molecular Genetics, 2002, 11, 3209-3219.	2.9	75
121	The biosynthesis of adenosylcobalamin (vitamin B12). Natural Product Reports, 2002, 19, 390-412.	10.3	409
122	Characterisation of two genes for guanylate cyclase activator protein (GCAP1 and GCAP2) in the Japanese pufferfish, Fugu rubripes. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2002, 1577, 73-80.	2.4	1
123	The structure of Saccharomyces cerevisiae Met8p, a bifunctional dehydrogenase and ferrochelatase. EMBO Journal, 2002, 21, 2068-2075.	7.8	63
124	Guanylate Cyclase Activating Proteins, Guanylate Cyclase and Disease. Advances in Experimental Medicine and Biology, 2002, 514, 411-438.	1.6	13
125	Isolation and characterization of 14 additional genes specifying the anaerobic biosynthesis of cobalamin (vitamin B12) in Propionibacterium freudenreichii (P. shermanii) The GenBank accession numbers for the sequences reported in this paper are AY033235, AY033236, U13043 and U51164.. Microbiology (United Kingdom), 2002, 148, 1845-1853.	1.8	46
126	Identification and Functional Consequences of a New Mutation (E155G) in the Gene for GCAP1 That Causes Autosomal Dominant Cone Dystrophy. American Journal of Human Genetics, 2001, 69, 471-480.	6.2	115

#	Article	IF	Citations
127	Optimization of Met8p crystals through protein-storage buffer manipulation. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 867-869.	2.5	2
128	The Enigma of Cobalamin (Vitamin B12) Biosynthesis inPorphyromonas gingivalis. Journal of Biological Chemistry, 2000, 275, 40316-40323.	3.4	95
129	Functional characterization of missense mutations at codon 838 in retinal guanylate cyclase correlates with disease severity in patients with autosomal dominant cone-rod dystrophy. Human Molecular Genetics, 2000, 9, 3065-3073.	2.9	83
130	Characterization of the Rhodobacter sphaeroides 5-aminolaevulinic acid synthase isoenzymes, HemA and HemT, isolated from recombinant Escherichia coli. FEBS Journal, 1999, 265, 290-299.	0.2	33
131	The schiff base complex of yeast 5â€aminolaevulinic acid dehydratase with laevulinic acid. Protein Science, 1999, 8, 1250-1256.	7.6	51
132	Vitamin B12: Insights into Biosynthesis's Mount Improbable. Bioorganic Chemistry, 1999, 27, 100-118.	4.1	42
133	Common Chelatase Design in the Branched Tetrapyrrole Pathways of Heme and Anaerobic Cobalamin Synthesisâ€. Biochemistry, 1999, 38, 10660-10669.	2.5	105
134	X-ray Structure of 5-Aminolevulinic Acid Dehydratase fromEscherichia coliComplexed with the Inhibitor Levulinic Acid at 2.0 Ã... Resolutionâ€. Biochemistry, 1999, 38, 4266-4276.	2.5	96
135	The role of Saccharomyces cerevisiae Met1p and Met8p in sirohaem and cobalamin biosynthesis. Biochemical Journal, 1999, 338, 701.	3.7	21
136	The role of Saccharomyces cerevisiae Met1p and Met8p in sirohaem and cobalamin biosynthesis. Biochemical Journal, 1999, 338, 701-708.	3.7	47
137	The X-ray structure of a cobalamin biosynthetic enzyme, cobalt-precorrin-4 methyltransferase. Nature Structural Biology, 1998, 5, 585-592.	9.7	60
138	Cobalamin (vitamin B12) biosynthesis . Cloning, expression and crystallisation of the Bacillus megaterium S-adenosyl- L-methionine-dependent cobalt-precorrin-4 transmethylase CbiF. FEBS Journal, 1998, 254, 341-346.	0.2	8
139	Lead poisoning, haem synthesis and 5-aminolaevulinic acid dehydratase. Trends in Biochemical Sciences, 1998, 23, 217-221.	7.5	141
140	GCAP1(Y99C) Mutant Is Constitutively Active in Autosomal Dominant Cone Dystrophy. Molecular Cell, 1998, 2, 129-133.	9.7	150
141	Recombinant Expression, Purification, and Characterization of Three Isoenzymes of Aspartate Aminotransferase fromArabidopsis thaliana. Protein Expression and Purification, 1998, 12, 381-389.	1.3	39
142	Cobalamin (vitamin B12) biosynthesis: identification and characterization of a Bacillus megaterium cobI operon. Biochemical Journal, 1998, 335, 159-166.	3.7	88
143	Cobalamin (vitamin B12) biosynthesis: functional characterization of the Bacillus megaterium cbi genes required to convert uroporphyrinogen III into cobyrinic acid a,c-diamide. Biochemical Journal, 1998, 335, 167-173.	3.7	37
144	Siroheme Biosynthesis in Higher Plants. Journal of Biological Chemistry, 1997, 272, 2744-2752.	3.4	52

#	Article	IF	Citations
145	Dipyrromethane cofactor assembly of porphobilinogen deaminase: Formation of apoenzyme and preparation of holoenzyme. Methods in Enzymology, 1997, 281, 317-327.	1.0	7
146	CbiX: A novel metal-binding protein involved in sirohaem biosynthesis in Bacillus megaterium. Biochemical Society Transactions, 1997, 25, 77S-77S.	3.4	14
147	Structural studies on 5-aminolaevulinic acid dehydratase from Saccharomyces cerevisiae (yeast). Biochemical Society Transactions, 1997, 25, 78S-78S.	3.4	3
148	Reconstitution of the Holoenzyme Form of Escherichia coli Porphobilinogen Deaminase from Apoenzyme with Porphobilinogen and Preuroporphyrinogen:â€‰ A Study Using Circular Dichroism Spectroscopy. Biochemistry, 1997, 36, 9273-9282.	2.5	20
149	X-ray structure of 5-aminolaevulinate dehydratase, a hybrid aldolase. Nature Structural Biology, 1997, 4, 1025-1031.	9.7	135
150	Chloroplastic aspartate aminotransferase from Arabidopsis thaliana: an examination of the relationship between the structure of the gene and the spatial structure of the protein. Biochemical Journal, 1996, 319, 969-976.	3.7	28
151	Discovery that the assembly of the dipyrromethane cofactor of porphobilinogen deaminase holoenzyme proceeds initially by the reaction of preuroporphyrinogen with the apoenzyme. Biochemical Journal, 1996, 316, 373-376.	3.7	30
152	Comparative studies on the 5-aminolaevulinic acid dehydratases from Pisum sativum, Escherichia coli and Saccharomyces cerevisiae. Biochemical Journal, 1996, 320, 401-412.	3.7	62
153	Evidence for a covalent intermediate in the S-adenosyl-<scp>l</scp>-methionine-dependent transmethylation reaction catalysed by sirohaem synthase. Biochemical Journal, 1996, 313, 415-421.	3.7	12
154	The maddening business of King George III and porphyria. Trends in Biochemical Sciences, 1996, 21, 229-234.	7.5	16
155	The three-dimensional structure ofEscherichia coliporphobilinogen deaminase at 1.76-Ã... resolution. , 1996, 25, 48-78.		40
156	Isolation, characterisation and expression of a cDNA clone encoding plastid aspartate aminotransferase from Arabidopsis thaliana. Plant Molecular Biology, 1995, 27, 1227-1233.	3.9	34
157	Evidence for conformational changes in Escherichia coli porphobilinogen deaminase during stepwise pyrrole chain elongation monitored by increased reactivity of cysteine-134 to alkylation by N-ethylmaleimide. Biochemistry, 1995, 34, 11288-11295.	2.5	24
158	The threeâ€dimensional structures of mutants of porphobilinogen deaminase: Toward an understanding of the structural basis of acute intermittent porphyria. Protein Science, 1994, 3, 1644-1650.	7.6	77
159	5â€Aminolaevulinic Acid Synthase and Uroporphyrinogen Methylase: Two Key Control Enzymes of Tetrapyrrole Biosynthesis and Modification. Novartis Foundation Symposium, 1994, 180, 26-49.	1.1	5
160	5-Amino-6-hydroxy 3,4,5,6-tetrahydropyran-2-one (HAT): A stable, cyclic form of glutamate 1-semialdehyde, the natural precursor for tetrapyrroles. Tetrahedron Letters, 1993, 34, 1177-1180.	1.4	17
161	Enzymic synthesis and structure of precorrin-3, a trimethyldipyrrocorphin intermediate in vitamin B12 biosynthesis. Biochemistry, 1992, 31, 603-609.	2.5	55
162	Expression of 9Salmonella typhimuriumenzymes for cobinamide synthesis Identification of the 11-methyl and 20-methyl transferases of corrin biosynthesis. FEBS Letters, 1992, 301, 73-78.	2.8	52

#	Article	IF	Citations
163	Crystallization and preliminary X-ray investigation of Escherichia coli porphobilinogen deaminase. Journal of Molecular Biology, 1992, 224, 269-271.	4.2	21
164	Structure of porphobilinogen deaminase reveals a flexible multidomain polymerase with a single catalytic site. Nature, 1992, 359, 33-39.	27.8	213
165	Timing and mechanistic implications of regiospecific carbonyl oxygen isotope exchange during vitamin B12 biosynthesis. Journal of the American Chemical Society, 1991, 113, 9891-9893.	13.7	35
166	Observation of enzyme bound intermediates in the biosynthesis of preuroporphyrinogen by PBG deaminase. Bioorganic and Medicinal Chemistry Letters, 1991, 1, 503-506.	2.2	20
167	Development of an â€˜overmethylationâ€™ strategy for corrin synthesis. Multi-enzyme preparation of pyrrocorphins. Journal of the Chemical Society Chemical Communications, 1990, , 593-597.	2.0	16
168	Uroporphyrinogen III methylase catalyzes the enzymic synthesis of sirohydrochlorins II and IV by a clockwise mechanism. Journal of the American Chemical Society, 1990, 112, 5343-5345.	13.7	21
169	Enzymatic synthesis of dihydrosirohydrochlorin (precorrin-2) and of a novel pyrrocorphin by uroporphyrinogen III methylase. FEBS Letters, 1990, 261, 76-80.	2.8	72
170	Investigation into the nature of substrate binding to the dipyrromethane cofactor of Escherichia coli porphobilinogen deaminase. Biochemistry, 1988, 27, 9020-9030.	2.5	82
171	Identification of a cysteine residue as the binding site for the dipyrromethane cofactor at the active site of Escherichia coli porphobilinogen deaminase. FEBS Letters, 1988, 235, 189-193.	2.8	46
172	An absolute requirement for 5-aminolevulinic acid in the formation of catalytically active porphobilinogen deaminase. Biochemical Society Transactions, 1988, 16, 962-963.	3.4	2
173	Further evidence for the involvement of a dipyrromethane cofactor at the active site of porphobilinogen deaminase. Biochemical Society Transactions, 1988, 16, 963-965.	3.4	13
174	Evidence for a dipyrromethane cofactor at the catalytic site ofE. coliporphobilinogen deaminase. FEBS Letters, 1987, 225, 87-92.	2.8	136