Rudolf Kurt Thauer

List of Publications by Year
in descending order

283	30,265	4388	6471
papers	citations	86 h-index	157 g-index

290	290	290	14291
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Methyl (Alkyl)-Coenzyme M Reductases: Nickel F-430-Containing Enzymes Involved in Anaerobic Methane Formation and in Anaerobic Oxidation of Methane or of Short Chain Alkanes. Biochemistry, 2019, 58, 5198-5220.	2.5	93
2	Flavin-Based Electron Bifurcation, A New Mechanism of Biological Energy Coupling. Chemical Reviews, 2018, 118, 3862-3886.	47.7	280
3	Flavin-Based Electron Bifurcation, Ferredoxin, Flavodoxin, and Anaerobic Respiration With Protons (Ech) or NAD+ (Rnf) as Electron Acceptors: A Historical Review. Frontiers in Microbiology, 2018, 9, 401.	3.5	281
4	Energy in Ancient Metabolism. Cell, 2017, 168, 953-955.	28.9	42
5	Lothar Jaenicke and C1-metabolism: his first 25 years of research. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2017, 72, 237-243.	1.4	1
6	Mode of action uncovered for the specific reduction of methane emissions from ruminants by the small molecule 3-nitrooxypropanol. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6172-6177.	7.1	190
7	Life under extreme energy limitation: a synthesis of laboratory- and field-based investigations. FEMS Microbiology Reviews, 2015, 39, 688-728.	8.6	288
8	My Lifelong Passion for Biochemistry and Anaerobic Microorganisms. Annual Review of Microbiology, 2015, 69, 1-30.	7.3	22
9	Energy Conservation Associated with Ethanol Formation from H ₂ and CO ₂ in Clostridium autoethanogenum Involving Electron Bifurcation. Journal of Bacteriology, 2015, 197, 2965-2980.	2.2	198
10	Insights into Flavin-based Electron Bifurcation via the NADH-dependent Reduced Ferredoxin:NADP Oxidoreductase Structure. Journal of Biological Chemistry, 2015, 290, 21985-21995.	3.4	102
11	Hydrogen Formation and Its Regulation in Ruminococcus albus: Involvement of an Electron-Bifurcating [FeFe]-Hydrogenase, of a Non-Electron-Bifurcating [FeFe]-Hydrogenase, and of a Putative Hydrogen-Sensing [FeFe]-Hydrogenase. Journal of Bacteriology, 2014, 196, 3840-3852.	2.2	111
12	Evidence for a Hexaheteromeric Methylenetetrahydrofolate Reductase in Moorella thermoacetica. Journal of Bacteriology, 2014, 196, 3303-3314.	2.2	115
13	Methyl-Coenzyme M Reductase from Methanogenic Archaea: Isotope Effects on the Formation and Anaerobic Oxidation of Methane. Journal of the American Chemical Society, 2013, 135, 14975-14984.	13.7	60
14	Energy conservation via electron bifurcating ferredoxin reduction and proton/Na+ translocating ferredoxin oxidation. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 94-113.	1.0	663
15	Frontiers, Opportunities, and Challenges in Biochemical and Chemical Catalysis of CO₂ Fixation. Chemical Reviews, 2013, 113, 6621-6658.	47.7	1,786
16	Methyl-Coenzyme M Reductase from Methanogenic Archaea: Isotope Effects on Label Exchange and Ethane Formation with the Homologous Substrate Ethyl-Coenzyme M. Journal of the American Chemical Society, 2013, 135, 14985-14995.	13.7	27
17	NADP-Specific Electron-Bifurcating [FeFe]-Hydrogenase in a Functional Complex with Formate Dehydrogenase in Clostridium autoethanogenum Grown on CO. Journal of Bacteriology, 2013, 195, 4373-4386.	2.2	208
18	Clostridium acidurici Electron-Bifurcating Formate Dehydrogenase. Applied and Environmental Microbiology, 2013, 79, 6176-6179.	3.1	88

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19	A Reversible Electron-Bifurcating Ferredoxin- and NAD-Dependent [FeFe]-Hydrogenase (HydABC) in Moorella thermoacetica. Journal of Bacteriology, 2013, 195, 1267-1275.	2.2	122
20	The Wolfe cycle comes full circle. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15084-15085.	7.1	100
21	Electron Bifurcation Involved in the Energy Metabolism of the Acetogenic Bacterium Moorella thermoacetica Growing on Glucose or H ₂ plus CO ₂. Journal of Bacteriology, 2012, 194, 3689-3699.	2.2	138
22	Structure of a methyl-coenzyme M reductase from Black Sea mats that oxidize methane anaerobically. Nature, 2012, 481, 98-101.	27.8	152
23	An Ancient Pathway Combining Carbon Dioxide Fixation with the Generation and Utilization of a Sodium Ion Gradient for ATP Synthesis. PLoS ONE, 2012, 7, e33439.	2.5	246
24	Anaerobic oxidation of methane with sulfate: on the reversibility of the reactions that are catalyzed by enzymes also involved in methanogenesis from CO2. Current Opinion in Microbiology, 2011, 14, 292-299.	5.1	150
25	More Than 200 Genes Required for Methane Formation from H₂and CO₂and Energy Conservation Are Present inMethanothermobacter marburgensisandMethanothermobacter thermautotrophicus. Archaea, 2011, 2011, 1-23.	2.3	107
26	Polymer/Bacteria Composite Nanofiber Nonwovens by Electrospinning of Living Bacteria Protected by Hydrogel Microparticles. Macromolecular Bioscience, 2011, 11, 333-337.	4.1	27
27	Hydrogenases and the Global H₂ Cycle. European Journal of Inorganic Chemistry, 2011, 2011, 919-921.	2.0	40
28	Dual Role of Sâ€Adenosylmethionine (SAM⁺) in the Methylation of sp²â€Hybridized Electrophilic Carbons. Angewandte Chemie - International Edition, 2011, 50, 10492-10494.	13.8	17
29	Coupling of ferredoxin and heterodisulfide reduction via electron bifurcation in hydrogenotrophic methanogenic archaea. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2981-2986.	7.1	356
30	Functionalization of Methane in Anaerobic Microorganisms. Angewandte Chemie - International Edition, 2010, 49, 6712-6713.	13.8	51
31	Intermediates in the Catalytic Cycle of Methyl Coenzymeâ€…M Reductase: Isotope Exchange is Consistent with Formation of a Ïƒâ€Alkaneâ€“Nickel Complex. Angewandte Chemie - International Edition, 2010, 49, 8112-8115.	13.8	46
32	The key nickel enzyme of methanogenesis catalyses the anaerobic oxidation of methane. Nature, 2010, 465, 606-608.	27.8	326
33	NADP⁺Reduction with Reduced Ferredoxin and NADP⁺Reduction with NADH Are Coupled via an Electron-Bifurcating Enzyme Complex inClostridium kluyveri. Journal of Bacteriology, 2010, 192, 5115-5123.	2.2	212
34	Complete Genome Sequence of Methanothermobacter marburgensis , a Methanoarchaeon Model Organism. Journal of Bacteriology, 2010, 192, 5850-5851.	2.2	32
35	Binding of Coenzyme B Induces a Major Conformational Change in the Active Site of Methyl-Coenzyme M Reductase. Journal of the American Chemical Society, 2010, 132, 567-575.	13.7	48
36	Hydrogenases from Methanogenic Archaea, Nickel, a Novel Cofactor, and H₂ Storage. Annual Review of Biochemistry, 2010, 79, 507-536.	11.1	374

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37	The crystal structure of C176A mutated [Fe]â€hydrogenase suggests an acylâ€iron ligation in the active site iron complex. FEBS Letters, 2009, 583, 585-590.	2.8	223
38	Celebrating Achim Trebstâ€™s 80th birthday. Photosynthesis Research, 2009, 100, 117-119.	2.9	2
39	Crystal structures and enzymatic properties of three formyltransferases from archaea: Environmental adaptation and evolutionary relationship. Protein Science, 2009, 11, 2168-2178.	7.6	25
40	Structural and functional analysis of the gpsA gene product of Archaeoglobus fulgidus: A glycerol-3-phosphate dehydrogenase with an unusual NADP+ preference. Protein Science, 2009, 13, 3161-3171.	7.6	9
41	Carbon monoxide as intrinsic ligand to iron in the active site of [fe]-hydrogenase. Metal Ions in Life Sciences, 2009, 6, 219-40.	2.8	0
42	The exchange activities of [Fe]Âhydrogenase (ironâ€“sulfur-cluster-free hydrogenase) from methanogenic archaea in comparison with the exchange activities of [FeFe] and [NiFe]Âhydrogenases. Journal of Biological Inorganic Chemistry, 2008, 13, 97-106.	2.6	84
43	Coordination and binding geometry of methyl-coenzyme M in the red1m state of methyl-coenzyme M reductase. Journal of Biological Inorganic Chemistry, 2008, 13, 1275-1289.	2.6	11
44	Methane as Fuel for Anaerobic Microorganisms. Annals of the New York Academy of Sciences, 2008, 1125, 158-170.	3.8	174
45	Methanogenic archaea: ecologically relevant differences in energy conservation. Nature Reviews Microbiology, 2008, 6, 579-591.	28.6	1,674
46	Structure of an F430 Variant from Archaea Associated with Anaerobic Oxidation of Methane. Journal of the American Chemical Society, 2008, 130, 10758-10767.	13.7	74
47	The Crystal Structure of [Fe]-Hydrogenase Reveals the Geometry of the Active Site. Science, 2008, 321, 572-575.	12.6	565
48	Characterization of the Fe Site in Ironâ^'Sulfur Cluster-Free Hydrogenase (Hmd) and of a Model Compound via Nuclear Resonance Vibrational Spectroscopy (NRVS). Inorganic Chemistry, 2008, 47, 3969-3977.	4.0	97
49	A Nickel Hydride Complex in the Active Site of Methyl-Coenzyme M Reductase: Implications for the Catalytic Cycle. Journal of the American Chemical Society, 2008, 130, 10907-10920.	13.7	68
50	The genome ofClostridium kluyveri, a strict anaerobe with unique metabolic features. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2128-2133.	7.1	409
51	Coupled Ferredoxin and Crotonyl Coenzyme A (CoA) Reduction with NADH Catalyzed by the Butyryl-CoA Dehydrogenase/Etf Complex from Clostridium kluyveri. Journal of Bacteriology, 2008, 190, 843-850.	2.2	379
52	Re -Citrate Synthase from Clostridium kluyveri Is Phylogenetically Related to Homocitrate Synthase and Isopropylmalate Synthase Rather Than to Si -Citrate Synthase. Journal of Bacteriology, 2007, 189, 4299-4304.	2.2	63
53	The CO and CNâ^'ligands to the active site Fe in [NiFe]-hydrogenase ofEscherichia colihave different metabolic origins. FEBS Letters, 2007, 581, 3317-3321.	2.8	48
54	A Fifth Pathway of Carbon Fixation. Science, 2007, 318, 1732-1733.	12.6	121

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55	Methyl-Coenzyme M Reductase and its Nickel Corphin Coenzyme F430 in Methanogenic Archaea. , 2007, , 323-356.		20
56	A third type of hydrogenase catalyzing H2 activation. Chemical Record, 2007, 7, 37-46.	5.8	258
57	Structure of coenzyme F420H2 oxidase (FprA), a di-iron flavoprotein from methanogenic Archaea catalyzing the reduction of O2 to H2O. FEBS Journal, 2007, 274, 1588-1599.	4.7	65
58	Postâ€translational modifications in the active site region of methylâ€coenzymeâ€fM reductase from methanogenic and methanotrophic archaea. FEBS Journal, 2007, 274, 4913-4921.	4.7	63
59	Two sub-states of the red2 state of methyl-coenzyme M reductase revealed by high-field EPR spectroscopy. Journal of Biological Inorganic Chemistry, 2007, 12, 1097-1105.	2.6	15
60	The Physiological Role of the Ribulose Monophosphate Pathway in Bacteria and Archaea. Bioscience, Biotechnology and Biochemistry, 2006, 70, 10-21.	1.3	121
61	Insight into the mechanism of biological methanol activation based on the crystal structure of the methanol-cobalamin methyltransferase complex. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18917-18922.	7.1	81
62	The Structure of Formylmethanofuran: Tetrahydromethanopterin Formyltransferase in Complex with its Coenzymes. Journal of Molecular Biology, 2006, 357, 870-879.	4.2	17
63	The Crystal Structure of the Apoenzyme of the Ironâ€“Sulphur Cluster-free Hydrogenase. Journal of Molecular Biology, 2006, 358, 798-809.	4.2	108
64	Methane and microbes. Nature, 2006, 440, 878-879.	27.8	68
65	A Nickelâ€–Alkyl Bond in an Inactivated State of the Enzyme Catalyzing Methane Formation. Angewandte Chemie - International Edition, 2006, 45, 3602-3607.	13.8	49
66	The Genome Sequence of Methanosphaera stadtmanae Reveals Why This Human Intestinal Archaeon Is Restricted to Methanol and H 2 for Methane Formation and ATP Synthesis. Journal of Bacteriology, 2006, 188, 642-658.	2.2	245
67	The Iron-Sulfur Cluster-free Hydrogenase (Hmd) Is a Metalloenzyme with a Novel Iron Binding Motif. Journal of Biological Chemistry, 2006, 281, 30804-30813.	3.4	134
68	Heme Biosynthesis in Methanosarcina barkeri via a Pathway Involving Two Methylation Reactions. Journal of Bacteriology, 2006, 188, 8666-8668.	2.2	42
69	Si-face stereospecificity at C5 of coenzyme F420 for F420H2 oxidase from methanogenic Archaea as determined by mass spectrometry. FEBS Journal, 2005, 272, 5337-5342.	4.7	6
70	Formaldehyde activating enzyme (Fae) and hexulose-6-phosphate synthase (Hps) in Methanosarcina barkeri: a possible function in ribose-5-phosphate biosynthesis. Archives of Microbiology, 2005, 184, 41-48.	2.2	33
71	Temperature dependence of methyl-coenzyme M reductase activity and of the formation of the methyl-coenzyme M reductase red2 state induced by coenzyme B. Journal of Biological Inorganic Chemistry, 2005, 10, 333-342.	2.6	53
72	The structure of F420-dependent methylenetetrahydromethanopterin dehydrogenase: a crystallographic `superstructure' of the selenomethionine-labelled protein crystal structure. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 198-202.	2.5	4

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73	How an Enzyme Binds the C1 Carrier Tetrahydromethanopterin. Journal of Biological Chemistry, 2005, 280, 13712-13719.	3.4	18
74	MÃ¶ssbauer Studies of the Ironâ€'Sulfur Cluster-Free Hydrogenase:Â The Electronic State of the Mononuclear Fe Active Site. Journal of the American Chemical Society, 2005, 127, 10430-10435.	13.7	155
75	Methyl-coenzyme M reductase and the anaerobic oxidation of methane in methanotrophic Archaea. Current Opinion in Microbiology, 2005, 8, 643-648.	5.1	166
76	Crystal structure of methylenetetrahydromethanopterin reductase (Mer) in complex with coenzyme F420: Architecture of the F420/FMN binding site of enzymes within the nonprolylcis-peptide containing bacterial luciferase family. Protein Science, 2005, 14, 1840-1849.	7.6	59
77	Spin Density and Coenzyme M Coordination Geometry of the ox1 Form of Methyl-Coenzyme M Reductase:â€‰ A Pulse EPR Study. Journal of the American Chemical Society, 2005, 127, 17744-17755.	13.7	54
78	Coenzyme Binding in F420-Dependent Secondary Alcohol Dehydrogenase, a Member of the Bacterial Luciferase Family. Structure, 2004, 12, 361-370.	3.3	62
79	Spectroscopic investigation of the nickel-containing porphinoid cofactor F430. Comparison of the free cofactor in the +1, +2 and +3 oxidation states with the cofactor bound to methyl-coenzyme M reductase in the silent, red and ox forms. Journal of Biological Inorganic Chemistry, 2004, 9, 563-576.	2.6	37
80	Probing the reactivity of Ni in the active site of methyl-coenzyme M reductase with substrate analogues. Journal of Biological Inorganic Chemistry, 2004, 9, 691-705.	2.6	60
81	F420H2 oxidase (FprA) from Methanobrevibacter arboriphilus, a coenzyme F420-dependent enzyme involved in O2 detoxification. Archives of Microbiology, 2004, 182, 126-37.	2.2	100
82	Tetrahydrofolate-specific enzymes in Methanosarcina barkeri and growth dependence of this methanogenic archaeon on folic acid or p-aminobenzoic acid. Archives of Microbiology, 2004, 182, 313-325.	2.2	35
83	UVâ€A/blueâ€light inactivation of the â€˜metalâ€freeâ€™ hydrogenase (Hmd) from methanogenic archaea. FEBS Journal, 2004, 271, 195-204.	0.2	192
84	The Cofactor of the Ironâ€“Sulfur Cluster Free Hydrogenase Hmd: Structure of the Lightâ€inactivation Product. Angewandte Chemie - International Edition, 2004, 43, 2547-2551.	13.8	145
85	Carbon Monoxide as an Intrinsic Ligand to Iron in the Active Site of the Ironâ€'Sulfur-Cluster-Free Hydrogenase H₂-Forming Methylenetetrahydromethanopterin Dehydrogenase As Revealed by Infrared Spectroscopy. Journal of the American Chemical Society, 2004, 126, 14239-14248.	13.7	203
86	Coordination and geometry of the nickel atom in active methyl-coenzyme M reductase from Methanothermobacter marburgensis as detected by X-ray absorption spectroscopy. Journal of Biological Inorganic Chemistry, 2003, 8, 141-148.	2.6	36
87	Coenzyme F420-dependent methylenetetrahydromethanopterin dehydrogenase fromMethanopyrus kandleri: the selenomethionine-labelled and non-labelled enzyme crystallized in two different forms. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1653-1655.	2.5	6
88	A conspicuous nickel protein in microbial mats that oxidize methane anaerobically. Nature, 2003, 426, 878-881.	27.8	344
89	Characterization of the MCRred2 form of methyl-coenzyme M reductase: a pulse EPR and ENDOR study. Journal of Biological Inorganic Chemistry, 2003, 8, 586-593.	2.6	33
90	Coenzyme B Induced Coordination of Coenzyme M via Its Thiol Group to Ni(I) of F430in Active Methyl-Coenzyme M Reductase. Journal of the American Chemical Society, 2003, 125, 4988-4989.	13.7	59

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91	Coenzyme F420-dependent Methylenetetrahydromethanopterin Dehydrogenase (Mtd) from Methanopyrus kandleri: A Methanogenic Enzyme with an Unusual Quarternary Structure. Journal of Molecular Biology, 2003, 332, 1047-1057.	4.2	39
92	Structure and function of the nickel tetrapyrrole F430 in methanogenic archaea. Biochemical Society Transactions, 2002, 30, A51-A51.	3.4	0
93	The nickel enzyme methyl-coenzymeÂM reductase from methanogenic archaea: In vitro induction of the nickel-based MCR-ox EPR signals from MCR-red2. Journal of Biological Inorganic Chemistry, 2002, 7, 500-513.	2.6	45
94	The nickel enzyme methyl-coenzyme M reductase from methanogenic archaea: in vitro interconversions among the EPR detectable MCR-red1 and MCR-red2 states. Journal of Biological Inorganic Chemistry, 2002, 7, 101-112.	2.6	46
95	The role of zinc in the methylation of the coenzymeâ€ƒM thiol group in methanol:coenzymeâ€ƒM methyltransferase fromMethanosarcina barkeri. FEBS Journal, 2002, 269, 2117-2123.	0.2	27
96	Molybdenum and tungsten enzymes in C1 metabolism. Metal Ions in Biological Systems, 2002, 39, 571-619.	0.4	16
97	On the mechanism of biological methane formation: structural evidence for conformational changes in methyl-coenzyme M reductase upon substrate binding. Journal of Molecular Biology, 2001, 309, 315-330.	4.2	183
98	Re-face stereospecificity of NADP dependent methylenetetrahydromethanopterin dehydrogenase fromMethylobacterium extorquensAM1 as determined by NMR spectroscopy. FEBS Letters, 2001, 494, 95-98.	2.8	8
99	The Na+-translocating methyltransferase complex from methanogenic archaea. Biochimica Et Biophysica Acta - Bioenergetics, 2001, 1505, 28-36.	1.0	157
100	[28] Tetrahydromethanopterin-specific enzymes from Methanopyrus kandleri. Methods in Enzymology, 2001, 331, 317-353.	1.0	34
101	Re-Face Stereospecificity of Methylenetetrahydromethanopterin and Methylenetetrahydrofolate Dehydrogenases is Predetermined by Intrinsic Properties of the Substrate. ChemBioChem, 2001, 2, 530-541.	2.6	25
102	Characterization of a Heme-Dependent Catalase from Methanobrevibacter arboriphilus. Applied and Environmental Microbiology, 2001, 67, 3041-3045.	3.1	42
103	Methyl-coenzymeâ€ƒM formation in methanogenic archaea. FEBS Journal, 2000, 267, 2498-2504.	0.2	49
104	N-Carboxymethanofuran (carbamate) formation from methanofuran and CO2 in methanogenic archaea. FEBS Journal, 2000, 267, 3130-3138.	0.2	24
105	Characterization of a second methylene tetrahydromethanopterin dehydrogenase from Methylobacterium extorquens AM1. FEBS Journal, 2000, 267, 3762-3769.	0.2	68
106	A mutation affecting the association equilibrium of formyltransferase from the hyperthermophilic Methanopyrus kandleri and its influence on the enzyme's activity and thermostability. FEBS Journal, 2000, 267, 6619-6623.	0.2	18
107	Protection of Methanosarcina barkeri against oxidative stress: identification and characterization of an iron superoxide dismutase. Archives of Microbiology, 2000, 174, 213-216.	2.2	49
108	Regulation of the synthesis of H 2 -forming methylenetetrahydromethanopterin dehydrogenase (Hmd) and of HmdII and HmdIII in Methanothermobacter marburgensis. Archives of Microbiology, 2000, 174, 225-232.	2.2	65

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109	Novel Formaldehyde-Activating Enzyme inMethylobacterium extorquens AM1 Required for Growth on Methanol. Journal of Bacteriology, 2000, 182, 6645-6650.	2.2	173
110	The Biosynthesis of Methylated Amino Acids in the Active Site Region of Methyl-coenzyme M Reductase. Journal of Biological Chemistry, 2000, 275, 3755-3760.	3.4	77
111	Comparison of three methyl-coenzyme M reductases from phylogenetically distant organisms: unusual amino acid modification, conservation and adaptation. Journal of Molecular Biology, 2000, 303, 329-344.	4.2	156
112	The metal-free hydrogenase from methanogenic archaea: evidence for a bound cofactor. FEBS Letters, 2000, 485, 200-204.	2.8	89
113	The DNA binding protein Tfx from Methanobacterium thermoautotrophicum: structure, DNA binding properties and transcriptional regulation. Molecular Microbiology, 1999, 31, 641-650.	2.5	39
114	Purification, characterization, and primary structure of a monofunctional catalase from Methanosarcina barkeri. Archives of Microbiology, 1999, 171, 317-323.	2.2	46
115	The crystal structure of methenyltetrahydromethanopterin cyclohydrolase from the hyperthermophilic archaeon Methanopyrus kandleri. Structure, 1999, 7, 1257-1268.	3.3	43
116	A methenyl tetrahydromethanopterin cyclohydrolase and a methenyl tetrahydrofolate cyclohydrolase in Methylobacterium extorquens AM1. FEBS Journal, 1999, 261, 475-480.	0.2	80
117	Methanol:coenzyme M methyltransferase fromMethanosarcina barkeriâ€ƒ–â€ƒsubstitution of the corrinoid harbouring subunit MtaC by free cob(I)alamin. FEBS Journal, 1999, 261, 674-681.	0.2	43
118	Cytochrome c-dependent methacrylate reductase from Geobacter sulfurreducens AM-1. FEBS Journal, 1999, 263, 346-352.	0.2	35
119	Methylcobalamin:homocysteine methyltransferase from Methanobacterium thermoautotrophicum . Identification as the metE gene product. FEBS Journal, 1999, 263, 789-796.	0.2	22
120	The energy conserving methyltetrahydromethanopterin:coenzyme M methyltransferase complex from methanogenic archaea: function of the subunit MtrH. FEBS Letters, 1999, 449, 165-168.	2.8	36
121	Distribution of Tetrahydromethanopterin-Dependent Enzymes in Methylotrophic Bacteria and Phylogeny of Methenyl Tetrahydromethanopterin Cyclohydrolases. Journal of Bacteriology, 1999, 181, 5750-5757.	2.2	124
122	An Escherichia coli hydrogenaseâ€3â€type hydrogenase in methanogenic archaea. FEBS Journal, 1998, 252, 467-476.	0.2	98
123	Thiol : fumarate reductase (Tfr) from Methanobacterium thermoautotrophicum . Identification of the catalytic sites for fumarate reduction and thiol oxidation. FEBS Journal, 1998, 253, 292-299.	0.2	45
124	Methanol : coenzyme M methyltransferase from Methanosarcina barkeri . Identification of the active-site histidine in the corrinoid-harboring subunit MtaC by site-directed mutagenesis. FEBS Journal, 1998, 253, 698-705.	0.2	36
125	Lyotropic-salt-induced changes in monomer/dimer/tetramer association equilibrium of formyltransferase from the hyperthermophilic Methanopyrus kandleri in relation to the activity and thermostability of the enzyme. FEBS Journal, 1998, 258, 85-92.	0.2	44
126	Two malate dehydrogenases in Methanobacterium thermoautotrophicum. Archives of Microbiology, 1998, 170, 38-42.	2.2	37

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127	His84rather than His35is the active site histidine in the corrinoid protein MtrA of the energy conserving methyltransferase complex fromMethanobacterium thermoautotrophicum. FEBS Letters, 1998, 436, 401-402.	2.8	14
128	F420H2:NADP oxidoreductase fromMethanobacterium thermoautotrophicum: identification of the encoding gene via functional overexpression inEscherichia coli. FEBS Letters, 1998, 438, 124-126.	2.8	13
129	Biochemistry of methanogenesis: a tribute to Marjory Stephenson:1998 Marjory Stephenson Prize Lecture. Microbiology (United Kingdom), 1998, 144, 2377-2406.	1.8	987
130	C1 Transfer Enzymes and Coenzymes Linking Methylotrophic Bacteria and Methanogenic Archaea. , 1998, 281, 99-102.		295
131	The NADP-Dependent Methylene Tetrahydromethanopterin Dehydrogenase in Methylobacterium extorquens AM1. Journal of Bacteriology, 1998, 180, 5351-5356.	2.2	90
132	Crystal Structure of Methyl-Coenzyme M Reductase: The Key Enzyme of Biological Methane Formation. Science, 1997, 278, 1457-1462.	12.6	547
133	Purified Methyl-Coenzyme-M Reductase is Activated when the Enzyme-Bound Coenzyme F430 is Reduced to the Nickel(I) Oxidation State by Titanium(III) Citrate. FEBS Journal, 1997, 243, 110-114.	0.2	130
134	Heterodisulfide Reductase from Methanol-Grown Cells of Methanosarcina Barkeri is not a Flavoenzyme. FEBS Journal, 1997, 244, 226-234.	0.2	76
135	Identification of the Active Site Histidine in the Corrinoid Protein MtrA of the Energy-Conserving Methyltransferase Complex From Methanobacterium Thermoautotrophicum. FEBS Journal, 1997, 250, 783-788.	0.2	24
136	Structures and Functions of Four Anabolic 2-Oxoacid Oxidoreductases in Methanobacterium Thermoautotrophicum. FEBS Journal, 1997, 244, 862-868.	0.2	67
137	The Active Species of 'CO2' Utilized by Formylmethanofuran Dehydrogenase from Methanogenic Archaea. FEBS Journal, 1997, 248, 919-924.	0.2	54
138	Methanol: Coenzyme M Methyltransferase from Methanosarcina Barkeri. Zinc Dependence and Thermodynamics of the Methanol:Cob(I)alamin Methyltransferase Reaction. FEBS Journal, 1997, 249, 280-285.	0.2	79
139	Overexpression of the Coenzyme-F420-Dependent N5,N10-Methylenetetrahydromethanopterin Dehydrogenase Gene from the Hyperthermophilic Methanopyrus Kandleri. FEBS Journal, 1997, 245, 386-391.	0.2	18
140	Methanol: Coenzyme M Methyltransferase from Methanosarcina Barkeri. Purification, Properties and Encoding Genes of the Corrinoid Protein MT1. FEBS Journal, 1997, 243, 670-677.	0.2	102
141	Pathways of autotrophic CO 2 fixation and of dissimilatory nitrate reduction to N 2 O in Ferroglobus placidus. Archives of Microbiology, 1997, 167, 19-23.	2.2	73
142	Crystal structure of Methyl-CoM reductase containing a Ni-porphinoid. Journal of Inorganic Biochemistry, 1997, 67, 180.	3.5	1
143	A seleniumâ€dependent and a seleniumâ€independent formylmethanofuran dehydrogenase and their transcriptional regulation in the hyperthermophilic Methanopyrus kandleri. Molecular Microbiology, 1997, 23, 1033-1042.	2.5	68
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