JÃ¶rg Simon

List of Publications by Year
in descending order

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78	4,535	94269 37	106150 65
papers	citations	h-index	g-index

80	80	80	3650
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sequence analysis and specificity of distinct types of menaquinone methyltransferases indicate the widespread potential of methylmenaquinone production in bacteria and archaea. Environmental Microbiology, 2021, 23, 1407-1421.	1.8	10
2	The missing enzymatic link in syntrophic methane formation from fatty acids. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	7
3	A Sodium-Translocating Module Linking Succinate Production to Formation of Membrane Potential in Prevotella bryantii. Applied and Environmental Microbiology, 2021, 87, e0121121.	1.4	10
4	Mitigation of Laughing Gas Emissions by Nitrous Oxide Respiring Microorganisms. , 2021, , 185-211.		1
5	Bacterial nitrous oxide respiration: electron transport chains and copper transfer reactions. Advances in Microbial Physiology, 2019, 75, 137-175.	1.0	25
6	Significance of MccR, MccC, MccD, MccL and 8-methylmenaquinone in sulfite respiration of Wolinella succinogenes. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 12-21.	0.5	8
7	Two dedicated class C radical S-adenosylmethionine methyltransferases concertedly catalyse the synthesis of 7,8-dimethylmenaquinone. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 300-308.	0.5	17
8	Electron Transport in Facultative Anaerobes. , 2018, , 1-4.		0
9	TsdC, a unique lipoprotein from Wolinella succinogenes that enhances tetrathionate reductase activity of TsdA. FEMS Microbiology Letters, 2017, 364, fnx003.	0.7	4
10	A class C radical Sâ€adenosylmethionine methyltransferase synthesizes 8â€methylmenaquinone. Molecular Microbiology, 2017, 104, 449-462.	1.2	26
11	Epsilonproteobacterial hydroxylamine oxidoreductase (ÎµHao): characterization of a â€˜missing linkâ€™ in the multihaem cytochrome c family. Molecular Microbiology, 2017, 105, 127-138.	1.2	30
12	Clade II nitrous oxide respiration of Wolinella succinogenes depends on the NosG, â€C1, â€C2, â€H electron transport module, NosB and a Rieske/cytochrome bc complex. Environmental Microbiology, 2017, 19, 4913-4925.	1.8	36
13	Comparative Genomic Analysis of the Class Epsilonproteobacteria and Proposed Reclassification to Epsilonbacteraeota (phyl. nov.). Frontiers in Microbiology, 2017, 8, 682.	1.5	409
14	Three transcription regulators of the <scp>N</scp>ss family mediate the adaptive response induced by nitrate, nitric oxide or nitrous oxide in <scp>W</scp>olinella succinogenes. Environmental Microbiology, 2016, 18, 2899-2912.	1.8	26
15	Resolution of Key Roles for the Distal Pocket Histidine in Cytochrome c Nitrite Reductases. Journal of the American Chemical Society, 2015, 137, 3059-3068.	6.6	28
16	The octahaem MccA is a haem câ€“copper sulfite reductase. Nature, 2015, 520, 706-709.	13.7	55
17	The Production of Ammonia by Multiheme Cytochromes c. Metal Ions in Life Sciences, 2014, 14, 211-236.	2.8	12
18	Production and consumption of nitrous oxide in nitrate-ammonifying Wolinella succinogenes cells. Microbiology (United Kingdom), 2014, 160, 1749-1759.	0.7	24

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19	Microbial Sulfite Respiration. Advances in Microbial Physiology, 2013, 62, 45-117.	1.0	95
20	Diversity and evolution of bioenergetic systems involved in microbial nitrogen compound transformations. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 114-135.	0.5	300
21	Electron Transport in Facultative Anaerobes. , 2013, , 630-633.		0
22	Hydrogen-Bonded Networks Along and Bifurcation of the E-Pathway in Quinol:Fumarate Reductase. Biophysical Journal, 2012, 103, 1305-1314.	0.2	8
23	Physiological function and catalytic versatility of bacterial multihaem cytochromes c involved in nitrogen and sulfur cycling. Biochemical Society Transactions, 2011, 39, 1864-1870.	1.6	44
24	Production of Recombinant Multiheme Cytochromes c in Wolinella succinogenes. Methods in Enzymology, 2011, 486, 429-446.	0.4	18
25	Respiratory nitrogen metabolism and nitrosative stress defence in Ïµ-proteobacteria: the role of NssR-type transcription regulators. Biochemical Society Transactions, 2011, 39, 299-302.	1.6	8
26	The oxidative and nitrosative stress defence network of Wolinella succinogenes: cytochrome c nitrite reductase mediates the stress response to nitrite, nitric oxide, hydroxylamine and hydrogen peroxide. Environmental Microbiology, 2011, 13, 2478-2494.	1.8	54
27	The Wolinella succinogenes mcc gene cluster encodes an unconventional respiratory sulphite reduction system. Molecular Microbiology, 2011, 82, 1515-1530.	1.2	63
28	Composition and function of cytochrome c biogenesis System II. FEBS Journal, 2011, 278, 4179-4188.	2.2	77
29	Substrate specificity of three cytochromechaem lyase isoenzymes fromWolinella succinogenes: unconventional haemcbinding motifs are not sufficient for haemcattachment by NrfI and CcsA1. Molecular Microbiology, 2010, 75, 122-137.	1.2	39
30	Essential histidine pairs indicate conserved haem binding in epsilonproteobacterial cytochrome c haem lyases. Microbiology (United Kingdom), 2010, 156, 3773-3781.	0.7	16
31	Periplasmic nitrate reduction in Wolinella succinogenes: cytoplasmic NapF facilitates NapA maturation and requires the menaquinol dehydrogenase NapH for membrane attachment. Microbiology (United Kingdom), 2009, 155, 2784-2794.	0.7	36
32	Electron transport chains and bioenergetics of respiratory nitrogen metabolism in Wolinella succinogenes and other Epsilonproteobacteria. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 646-656.	0.5	105
33	Characterization of the NapGH quinol dehydrogenase complex involved in Wolinella succinogenes nitrate respiration. Molecular Microbiology, 2008, 69, 1137-1152.	1.2	50
34	The organisation of proton motive and non-proton motive redox loops in prokaryotic respiratory systems. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 1480-1490.	0.5	156
35	Quinone-reactive proteins devoid of haem b form widespread membrane-bound electron transport modules in bacterial respiration. Biochemical Society Transactions, 2008, 36, 1011-1016.	1.6	61
36	Binding and Reduction of Sulfite by Cytochrome c Nitrite Reductase[,]. Biochemistry, 2008, 47, 2080-2086.	1.2	83

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37	Genome of the Epsilonproteobacterial Chemolithoautotroph Sulfurimonas denitrificans. Applied and Environmental Microbiology, 2008, 74, 1145-1156.	1.4	228
38	Variants of the tetrahaem cytochrome c quinol dehydrogenase NrfH characterize the menaquinol-binding site, the haem c-binding motifs and the transmembrane segment. Biochemical Journal, 2008, 414, 73-79.	1.7	13
39	Role of individual nap gene cluster products in NapC-independent nitrate respiration of Wolinella succinogenes. Microbiology (United Kingdom), 2007, 153, 3739-3747.	0.7	43
40	A dedicated haem lyase is required for the maturation of a novel bacterial cytochrome c with unconventional covalent haem binding. Molecular Microbiology, 2007, 64, 1049-1060.	1.2	51
41	Heterologous production in Wolinella succinogenes and characterization of the quinol:fumarate reductase enzymes from Helicobacter pylori and Campylobacter jejuni. Biochemical Journal, 2006, 395, 191-201.	1.7	38
42	The Genus Wolinella. , 2006, , 178-191.		2
43	Site-directed modifications indicate differences in axial haem c iron ligation between the related NrfH and NapC families of multihaem c-type cytochromes. Biochemical Journal, 2005, 390, 689-693.	1.7	31
44	Experimental support for the "E pathway hypothesis" of coupled transmembrane e- and H+ transfer in dihemic quinol:fumarate reductase. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18860-18865.	3.3	47
45	Probing Heme Propionate Involvement in Transmembrane Proton Transfer Coupled to Electron Transfer in Dihemic Quinol:Fumarate Reductase by13C-Labeling and FTIR Difference Spectroscopyâ€. Biochemistry, 2005, 44, 16718-16728.	1.2	23
46	FTIR Difference Spectra ofWolinella succinogenesQuinol:Fumarate Reductase Support a Key Role of Glu C180 within the â€œE-Pathway Hypothesisâ€•of Coupled Transmembrane Electron and Proton Transferâ€. Biochemistry, 2005, 44, 13949-13961.	1.2	18
47	Characterization of the Menaquinone Reduction Site in the Diheme Cytochrome b Membrane Anchor of Wolinella succinogenes NiFe-hydrogenase. Journal of Biological Chemistry, 2004, 279, 274-281.	1.6	43
48	The unprecedentednosgene cluster ofWolinella succinogenesencodes a novel respiratory electron transfer pathway to cytochromecnitrous oxide reductase. FEBS Letters, 2004, 569, 7-12.	1.3	92
49	Chapter 10: Sulfur Respiration. Advances in Photosynthesis and Respiration, 2004, , 217-232.	1.0	6
50	ThehydEgene is essential for the formation ofWolinella succinogenesNiFe-hydrogenase. FEMS Microbiology Letters, 2003, 227, 197-202.	0.7	10
51	Electron transport to periplasmic nitrate reductase (NapA) of Wolinella succinogenes is independent of a NapC protein. Molecular Microbiology, 2003, 49, 69-79.	1.2	64
52	Complete genome sequence and analysis of Wolinella succinogenes. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11690-11695.	3.3	199
53	Succinate:quinone oxidoreductases from Ïµ-proteobacteria11Dedicated to Achim KrÃ¶ger on the occasion of his 65th birthday. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1553, 84-101.	0.5	52
54	Fumarate respiration of Wolinella succinogenes: enzymology, energetics and coupling mechanism. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1553, 23-38.	0.5	134

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55	Modification of hemecbinding motifs in the small subunit (NrfH) of theWolinella succinogenescytochromecnitrite reductase complex. FEBS Letters, 2002, 522, 83-87.	1.3	28
56	PsrR, a member of the AraC family of transcriptional regulators, is required for the synthesis of Wolinella succinogenes polysulfide reductase. Archives of Microbiology, 2002, 178, 202-207.	1.0	5
57	A NapC/NirT-type cytochrome c (NrfH) is the mediator between the quinone pool and the cytochrome c nitrite reductase of Wolinella succinogenes. Molecular Microbiology, 2002, 35, 686-696.	1.2	130
58	Thenrflgene is essential for the attachment of the active site haem group ofWolinella succinogenescytochromecnitrite reductase. Molecular Microbiology, 2002, 43, 763-770.	1.2	37
59	Crystallization and preliminary X-ray analysis of the membrane-bound cytochromecnitrite reductase complex (NrfHA) fromWolinella succinogenes. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 341-342.	2.5	19
60	Reconstitution of coupled fumarate respiration in liposomes by incorporating the electron transport enzymes isolated from Wolinella succinogenes. FEBS Journal, 2002, 269, 1974-1983.	0.2	57
61	Enzymology and bioenergetics of respiratory nitrite ammonification. FEMS Microbiology Reviews, 2002, 26, 285-309.	3.9	332
62	Periplasmic methacrylate reductase activity in Wolinella succinogenes. Archives of Microbiology, 2001, 176, 310-313.	1.0	18
63	A third crystal form ofWolinella succinogenesquinol:fumarate reductase reveals domain closure at the site of fumarate reduction. FEBS Journal, 2001, 268, 1820-1827.	0.2	52
64	The tetraheme cytochrome c NrfH is required to anchor the cytochrome c nitrite reductase (NrfA) in the membrane of Wolinella succinogenes. FEBS Journal, 2001, 268, 5776-5782.	0.2	55
65	A third crystal form of Wolinella succinogenes quinol:fumarate reductase reveals domain closure at the site of fumarate reduction. FEBS Journal, 2001, 268, 1820-1827.	0.2	1
66	Essential role of Glu-C66 for menaquinol oxidation indicates transmembrane electrochemical potential generation by Wolinella succinogenes fumarate reductase. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 13051-13056.	3.3	77
67	Transport of C4-Dicarboxylates inWolinella succinogenes. Journal of Bacteriology, 2000, 182, 5757-5764.	1.0	39
68	Cytochrome c Nitrite Reductase from Wolinella succinogenes. Journal of Biological Chemistry, 2000, 275, 39608-39616.	1.6	184
69	The role of the twin-arginine motif in the signal peptide encoded by the hydA gene of the hydrogenase from Wolinella succinogenes. Archives of Microbiology, 1999, 172, 227-232.	1.0	48
70	The single cysteine residue of the Sud protein is required for its function as a polysulfide-sulfur transferase in Wolinella succinogenes. FEBS Journal, 1999, 263, 79-84.	0.2	25
71	Deletion and site-directed mutagenesis of the Wolinella succinogenes fumarate reductase operon. FEBS Journal, 1998, 251, 418-426.	0.2	68
72	The function of the periplasmic Sud protein in polysulfide respiration of Wolinella succinogenes. FEBS Journal, 1998, 253, 263-269.	0.2	44

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73	A periplasmic flavoprotein in Wolinella succinogenes that resembles the fumarate reductase of Shewanella putrefaciens. Archives of Microbiology, 1998, 169, 424-433.	1.0	30
74	Identification and characterization of IS 1302 , a novel insertion element from Wolinella succinogenes belonging to the IS 3 family. Archives of Microbiology, 1998, 170, 43-49.	1.0	12
75	Two membrane anchors of Wolinella succinogenes hydrogenase and their function in fumarate and polysulfide respiration. Archives of Microbiology, 1998, 170, 50-58.	1.0	60
76	Identification of histidine residues in Wolinella succinogenes hydrogenase that are essential for menaquinone reduction by H2. Molecular Microbiology, 1998, 30, 639-646.	1.2	41
77	Structure and Function of a Second Gene Cluster Encoding the Formate Dehydrogenase of Wolinella Succinogenes. FEBS Journal, 1997, 246, 646-651.	0.2	27
78	Properties of the menaquinol oxidase (Qox) and of qox deletion mutants of Bacillus subtilis. Archives of Microbiology, 1995, 163, 432-438.	1.0	20