Stuart J Ferguson

List of Publications by Citations

190 papers	7,351 citations	48 h-index	75 g-index
195 ext. papers	7,857 ext. citations	5.3 avg, IF	5.53 L-index

#	Paper	IF	Citations
190	Enzymes and associated electron transport systems that catalyse the respiratory reduction of nitrogen oxides and oxyanions. *Biochimica Et Biophysica Acta - Bioenergetics*, **1995**, 1232, 97-173	4.6	421
189	Haem-ligand switching during catalysis in crystals of a nitrogen-cycle enzyme. *Nature*, **1997**, 389, 406-12	50.4	258
188	The anatomy of a bifunctional enzyme: structural basis for reduction of oxygen to water and synthesis of nitric oxide by cytochrome cd1. *Cell*, **1995**, 81, 369-77	56.2	257
187	Molecular genetics of the genus Paracoccus: metabolically versatile bacteria with bioenergetic flexibility. *Microbiology and Molecular Biology Reviews*, **1998**, 62, 1046-78	13.2	166
186	Periplasmic and membrane-bound respiratory nitrate reductases in Thiosphaera pantotropha. The periplasmic enzyme catalyzes the first step in aerobic denitrification. *FEBS Letters*, **1990**, 265, 85-7	3.8	162
185	Still a puzzle: why is haem covalently attached in c-type cytochromes?. *Structure*, **1999**, 7, R281-90	5.2	129
184	Sequence analysis of subunits of the membrane-bound nitrate reductase from a denitrifying bacterium: the integral membrane subunit provides a prototype for the dihaem electron-carrying arm of a redox loop. *Molecular Microbiology*, **1995**, 15, 319-31	4.1	128
183	Anaerobic respiration in the Rhodospirillaceae: characterisation of pathways and evaluation of roles in redox balancing during photosynthesis. *FEMS Microbiology Letters*, **1987**, 46, 117-143	2.9	128
182	C-type cytochrome formation: chemical and biological enigmas. *Accounts of Chemical Research*, **2004**, 37, 999-1007	24.3	127
181	Cytochrome cd1 structure: unusual haem environments in a nitrite reductase and analysis of factors contributing to beta-propeller folds. *Journal of Molecular Biology*, **1997**, 269, 440-55	6.5	110
180	Amyloid fibril formation by a helical cytochrome. *FEBS Letters*, **2001**, 495, 184-6	3.8	107
179	Spectroscopic characterization of a novel multiheme c-type cytochrome widely implicated in bacterial electron transport. *Journal of Biological Chemistry*, **1998**, 273, 28785-90	5.4	105
178	Pseudospecific docking surfaces on electron transfer proteins as illustrated by pseudoazurin, cytochrome c550 and cytochrome cd1 nitrite reductase. *Nature Structural and Molecular Biology*, **1995**, 2, 975-82	17.6	100
177	The respiratory nitrate reductase from Paracoccus denitrificans. Molecular characterisation and kinetic properties. *FEBS Journal*, **1986**, 158, 429-36		96
176	C-type cytochromes: diverse structures and biogenesis systems pose evolutionary problems. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2003**, 358, 255-66	5.8	93
175	The purification of a cd1-type nitrite reductase from, and the absence of a copper-type nitrite reductase from, the aerobic denitrifier Thiosphaera pantotropha; the role of pseudoazurin as an electron donor. *FEBS Journal*, **1993**, 212, 377-85		93
174	Purification and characterization of the periplasmic nitrate reductase from Thiosphaera pantotropha. *FEBS Journal*, **1994**, 220, 117-24		92

173	The role of auxiliary oxidants in maintaining redox balance during phototrophic growth of Rhodobacter capsulatus on propionate or butyrate. *Archives of Microbiology*, **1988**, 150, 131-137	3	90
172	Molecular hijacking of siroheme for the synthesis of heme and d1 heme. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 18260-5	11.5	89
171	In vitro formation of a c-type cytochrome. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 7872-6	11.5	89
170	Models for molybdenum coordination during the catalytic cycle of periplasmic nitrate reductase from Paracoccus denitrificans derived from EPR and EXAFS spectroscopy. *Biochemistry*, **1999**, 38, 9000-12	3.2	89
169	Two enzymes with a common function but different heme ligands in the forms as isolated. Optical and magnetic properties of the heme groups in the oxidized forms of nitrite reductase, cytochrome cd1, from Pseudomonas stutzeri and Thiosphaera pantotropha. *Biochemistry*, **1997**, 36, 16267-76	3.2	76
168	The energy-conserving nitric-oxide-reductase system in Paracoccus denitrificans. Distinction from the nitrite reductase that catalyses synthesis of nitric oxide and evidence from trapping experiments for nitric oxide as a free intermediate during denitrification. *FEBS Journal*, **1989**, 179, 683-92		75
167	ATP synthase: from sequence to ring size to the P/O ratio. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 16755-6	11.5	73
166	Cytochrome c biogenesis System I. *FEBS Journal*, **2011**, 278, 4170-8	5.7	68
165	Order within a mosaic distribution of mitochondrial c-type cytochrome biogenesis systems?. *FEBS Journal*, **2008**, 275, 2385-402	5.7	64
164	Specific thiol compounds complement deficiency in c-type cytochrome biogenesis in Escherichia coli carrying a mutation in a membrane-bound disulphide isomerase-like protein. *FEBS Letters*, **1994**, 353, 235-8	3.8	63
163	The CcmE protein of the c-type cytochrome biogenesis system: unusual in vitro heme incorporation into apo-CcmE and transfer from holo-CcmE to apocytochrome. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 9703-8	11.5	62
162	Two domains of a dual-function NarK protein are required for nitrate uptake, the first step of denitrification in Paracoccus pantotrophus. *Molecular Microbiology*, **2002**, 44, 157-70	4.1	61
161	The protonmotive force in phosphorylating membrane vesicles from Paracoccus denitrificans. Magnitude, sites of generation and comparison with the phosphorylation potential. *Biochemical Journal*, **1978**, 174, 257-66	3.8	61
160	The specific incorporation of labelled aromatic amino acids into proteins through growth of bacteria in the presence of glyphosate. Application to fluorotryptophan labelling to the H(+)-ATPase of Escherichia coli and NMR studies. *FEBS Letters*, **1990**, 272, 34-6	3.8	60
159	Pulse radiolysis studies on cytochrome cd1 nitrite reductase from Thiosphaera pantotropha: evidence for a fast intramolecular electron transfer from c-heme to d1-heme. *Biochemistry*, **1997**, 36, 13611-6	3.2	59
158	Selection and organisation of denitrifying electron-transfer pathways in Paracoccus denitrificans. *Biochimica Et Biophysica Acta - Bioenergetics*, **1983**, 724, 20-39	4.6	59
157	Paracoccus denitrificans CcmG is a periplasmic protein-disulphide oxidoreductase required for c- and aa3-type cytochrome biogenesis; evidence for a reductase role in vivo. *Molecular Microbiology*, **1997**, 24, 977-90	4.1	58
156	Purification and characterization of a nitrous oxide reductase from Thiosphaera pantotropha. Implications for the mechanism of aerobic nitrous oxide reduction. *FEBS Journal*, **1993**, 212, 467-76		58

155	Synthesis of holo Paracoccus denitrificans cytochrome c550 requires targeting to the periplasm whereas that of holo Hydrogenobacter thermophilus cytochrome c552 does not. Implications for c-type cytochrome biogenesis. *FEBS Letters*, **1994**, 340, 65-70	3.8	57
154	Electron flow to dimethylsulphoxide or trimethylamine-N-oxide generates a membrane potential in Rhodopseudomonas capsulata. *Archives of Microbiology*, **1983**, 136, 300-5	3	56
153	Maturation of the unusual single-cysteine (XXXCH) mitochondrial c-type cytochromes found in trypanosomatids must occur through a novel biogenesis pathway. *Biochemical Journal*, **2004**, 383, 537-42	3.8	55
152	Control of periplasmic nitrate reductase gene expression (napEDABC) from Paracoccus pantotrophus in response to oxygen and carbon substrates. *Microbiology (United Kingdom)*, **2000**, 146 (Pt 11), 2977-2985	2.9	55
151	A further clue to understanding the mobility of mitochondrial yeast cytochrome c: a (15)N T1rho investigation of the oxidized and reduced species. *FEBS Journal*, **2001**, 268, 4468-76		52
150	Time-resolved infrared spectroscopy reveals a stable ferric heme-NO intermediate in the reaction of Paracoccus pantotrophus cytochrome cd1 nitrite reductase with nitrite. *Journal of Biological Chemistry*, **2000**, 275, 33231-7	5.4	52
149	Maximal expression of membrane-bound nitrate reductase in Paracoccus is induced by nitrate via a third FNR-like regulator named NarR. *Journal of Bacteriology*, **2001**, 183, 3606-13	3.5	51
148	Cytochrome c assembly: a tale of ever increasing variation and mystery?. *Biochimica Et Biophysica Acta - Bioenergetics*, **2008**, 1777, 980-4	4.6	50
147	Characterization of the paramagnetic iron-containing redox centres of Thiosphaera pantotropha periplasmic nitrate reductase. *FEBS Letters*, **1994**, 345, 76-80	3.8	50
146	The interaction of covalently bound heme with the cytochrome c maturation protein CcmE. *Journal of Biological Chemistry*, **2004**, 279, 51981-8	5.4	49
145	A cytochrome b562 variant with a c-type cytochrome CXXCH heme-binding motif as a probe of the Escherichia coli cytochrome c maturation system. *Journal of Biological Chemistry*, **2003**, 278, 52075-83	5.4	49
144	Alteration of haem-attachment and signal-cleavage sites for Paracoccus denitrificans cytochrome C550 probes pathway of c-type cytochrome biogenesis in Escherichia coli. *Molecular Microbiology*, **1996**, 19, 1193-204	4.1	49
143	Escherichia coli DipZ: anatomy of a transmembrane protein disulphide reductase in which three pairs of cysteine residues, one in each of three domains, contribute differentially to function. *Molecular Microbiology*, **2000**, 35, 1360-74	4.1	48
142	Cloning and sequence analysis of cycH gene from Paracoccus denitrificans: the cycH gene product is required for assembly of all c-type cytochromes, including cytochrome c1. *Molecular Microbiology*, **1995**, 15, 307-18	4.1	48
141	Sequence and expression of the gene encoding the respiratory nitrous-oxide reductase from Paracoccus denitrificans. New and conserved structural and regulatory motifs. *FEBS Journal*, **1993**, 218, 49-57		48
140	The high affinity of Paracoccus denitrificans cells for nitrate as an electron acceptor. Analysis of possible mechanisms of nitrate and nitrite movement across the plasma membrane and the basis for inhibition by added nitrite of oxidase activity in permeabilised cells. *Biochimica Et Biophysica*	4.6	48
139	A mutant of Paracoccus denitrificans with disrupted genes coding for cytochrome c550 and pseudoazurin establishes these two proteins as the in vivo electron donors to cytochrome cd1 nitrite reductase. *Journal of Bacteriology*, **2003**, 185, 6308-15	3.5	47
138	Cytochrome cd(1) from Paracoccus pantotrophus exhibits kinetically gated, conformationally dependent, highly cooperative two-electron redox behavior. *Biochemistry*, **2000**, 39, 4243-9	3.2	47

137	Tyrosine-311 of a beta chain is the essential residue specifically modified by 4-chloro-7-nitrobenzofurazan in bovine heart mitochondrial ATPase. *FEBS Journal*, **1985**, 148, 551-4		47
136	Cytochrome c assembly. *IUBMB Life*, **2013**, 65, 209-16	4.7	46
135	Definition and distinction between assimilatory, dissimilatory and respiratory pathways. *Molecular Microbiology*, **1998**, 29, 664-6	4.1	46
134	ATP synthase: what dictates the size of a ring?. *Current Biology*, **2000**, 10, R804-8	6.3	46
133	Cytochrome c2 is essential for electron transfer to nitrous oxide reductase from physiological substrates in Rhodobacter capsulatus and can act as an electron donor to the reductase in vitro. Correlation with photoinhibition studies. *FEBS Journal*, **1991**, 199, 677-83		46
132	The Paracoccus denitrificans ccmA, B and C genes: cloning and sequencing, and analysis of the potential of their products to form a haem or apo- c-type cytochrome transporter. *Microbiology (United Kingdom)*, **1997**, 143 (Pt 2), 563-576	2.9	45
131	X-ray crystallographic study of cyanide binding provides insights into the structure-function relationship for cytochrome cd1 nitrite reductase from Paracoccus pantotrophus. *Journal of Biological Chemistry*, **2000**, 275, 25089-94	5.4	45
130	Mo(V) electron paramagnetic resonance signals from the periplasmic nitrate reductase of Thiosphaera pantotropha. *FEBS Journal*, **1994**, 226, 789-98		45
129	Energetic problems faced by micro-organisms growing or surviving on parsimonious energy sources and at acidic pH: I. Acidithiobacillus ferrooxidans as a paradigm. *Biochimica Et Biophysica Acta - Bioenergetics*, **2008**, 1777, 1471-9	4.6	44
128	Mutants of Escherichia coli lacking disulphide oxidoreductases DsbA and DsbB cannot synthesise an exogenous monohaem c-type cytochrome except in the presence of disulphide compounds. *FEBS Letters*, **1996**, 398, 265-8	3.8	44
127	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, 2837-63	10.3	43
126	The histidine of the c-type cytochrome CXXCH haem-binding motif is essential for haem attachment by the Escherichia coli cytochrome c maturation (Ccm) apparatus. *Biochemical Journal*, **2005**, 389, 587-92	3.8	43
125	Respiratory nitrate reductase from Paracoccus denitrificans. Evidence for two b-type haems in the gamma subunit and properties of a water-soluble active enzyme containing alpha and beta subunits. *FEBS Journal*, **1988**, 174, 207-12		43
124	A composite biochemical system for bacterial nitrate and nitrite assimilation as exemplified by Paracoccus denitrificans. *Biochemical Journal*, **2011**, 435, 743-53	3.8	42
123	Cytochrome cd1, reductive activation and kinetic analysis of a multifunctional respiratory enzyme. *Journal of Biological Chemistry*, **2002**, 277, 3093-100	5.4	42
122	Interdependence of two NarK domains in a fused nitrate/nitrite transporter. *Molecular Microbiology* , **2008**, 70, 667-81	4.1	41
121	The Escherichia coli cytochrome c maturation (Ccm) system does not detectably attach heme to single cysteine variants of an apocytochrome c. *Journal of Biological Chemistry*, **2002**, 277, 33559-63	5.4	41
120	Loss of ATP hydrolysis activity by CcmAB results in loss of c-type cytochrome synthesis and incomplete processing of CcmE. *FEBS Journal*, **2007**, 274, 2322-32	5.7	39

119	The basis of the control of nitrate reduction by oxygen in Paracoccus denitrificans. *FEMS Microbiology Letters*, **1981**, 12, 321-326	2.9	39
118	Identification of two domains and distal histidine ligands to the four haems in the bacterial c-type cytochrome NapC; the prototype connector between quinol/quinone and periplasmic oxido-reductases. *Biochemical Journal*, **2002**, 368, 425-32	3.8	38
117	On the current-voltage relationships of energy-transducing membranes: phosphorylating membrane vesicles from Paracoccus denitrificans [proceedings]. *Biochemical Society Transactions*, **1978**, 6, 1292-5	5.1	38
116	The identification of cytochromes involved in the transfer of electrons to the periplasmic NO3-reductase of Rhodobacter capsulatus and resolution of a soluble NO3(-)-reductase--cytochrome-c552 redox complex. *FEBS Journal*, **1990**, 194, 263-70		37
115	Partial uncoupling, or inhibition of electron transport rate, have equivalent effects on the relationship between the rate of ATP synthesis and proton-motive force in submitochondrial particles. *FEBS Letters*, **1985**, 181, 323-7	3.8	36
114	A switch in heme axial ligation prepares Paracoccus pantotrophus cytochrome cd1 for catalysis. *Nature Structural Biology*, **2000**, 7, 885-8		35
113	A nitrate reductase activity in Rhodopseudomonas capsulata linked to electron transfer and generation of a membrane potential. *FEBS Letters*, **1982**, 150, 277-280	3.8	35
112	Oxidase reaction of cytochrome cd(1) from Paracoccus pantotrophus. *Biochemistry*, **2000**, 39, 4028-36	3.2	34
111	Evolutionary origins of members of a superfamily of integral membrane cytochrome c biogenesis proteins. *Biochimica Et Biophysica Acta - Biomembranes*, **2007**, 1768, 2164-81	3.8	33
110	Interaction of heme with variants of the heme chaperone CcmE carrying active site mutations and a cleavable N-terminal His tag. *Journal of Biological Chemistry*, **2003**, 278, 20500-6	5.4	33
109	Cytochrome c maturation. The in vitro reactions of horse heart apocytochrome c and Paracoccus dentrificans apocytochrome c550 with heme. *Journal of Biological Chemistry*, **2003**, 278, 4404-9	5.4	32
108	Aspects of the control and organization of bacterial electron transport. *Biochemical Society Transactions*, **1982**, 10, 198-200	5.1	32
107	Disruption of the Pseudomonas aeruginosa dipZ gene, encoding a putative protein-disulfide reductase, leads to partial pleiotropic deficiency in c-type cytochrome biogenesis. *Microbiology (United Kingdom)*, **1997**, 143 (Pt 10), 3111-3112	2.9	32
106	Measurements of the components of the protonmotive force generated by cytochrome oxidase in submitochondrial particles. *FEBS Letters*, **1978**, 90, 178-82	3.8	31
105	Structure of a trypanosomatid mitochondrial cytochrome c with heme attached via only one thioether bond and implications for the substrate recognition requirements of heme lyase. *FEBS Journal*, **2009**, 276, 2822-32	5.7	30
104	Electron transport pathways to nitrous oxide in Rhodobacter species. *FEBS Journal*, **1989**, 185, 659-69		30
103	Identification of an assimilatory nitrate reductase in mutants of Paracoccus denitrificans GB17 deficient in nitrate respiration. *Archives of Microbiology*, **1997**, 167, 61-6	3	29
102	A variant System I for cytochrome c biogenesis in archaea and some bacteria has a novel CcmE and no CcmH. *FEBS Letters*, **2006**, 580, 4827-34	3.8	29

101	Characterisation and amino acid sequence of cytochrome c-550 from Thiosphaera pantotropha. *FEBS Journal*, **1994**, 219, 585-94		29
100	Mo(V) co-ordination in the periplasmic nitrate reductase from Paracoccus pantotrophus probed by electron nuclear double resonance (ENDOR) spectroscopy. *Biochemical Journal*, **2002**, 363, 817-823	3.8	28
99	Characterisation of phosphate binding to mitochondrial and bacterial membrane-bound ATP synthase by studies of inhibition with 4-chloro-7-nitrobenzofurazan. *FEBS Letters*, **1986**, 198, 113-8	3.8	27
98	A partially folded intermediate species of the beta-sheet protein apo-pseudoazurin is trapped during proline-limited folding. *Protein Science*, **2001**, 10, 1216-24	6.3	26
97	Mutants of Methylobacterium extorquens and Paracoccus denitrificans deficient in c-type cytochrome biogenesis synthesise the methylamine-dehydrogenase polypeptides but cannot assemble the tryptophan-tryptophylquinone group. *FEBS Journal*, **1993**, 218, 711-7		26
96	d(1) haem biogenesis - assessing the roles of three nir gene products. *FEBS Journal*, **2009**, 276, 6399-411	5.7	25
95	Probing the heme-binding site of the cytochrome c maturation protein CcmE. *Biochemistry*, **2009**, 48, 1820-8	3.2	25
94	NirJ, a radical SAM family member of the d1 heme biogenesis cluster. *FEBS Letters*, **2010**, 584, 2461-6	3.8	25
93	Active-site properties of the oxidized and reduced C-terminal domain of DsbD obtained by NMR spectroscopy. *Journal of Molecular Biology*, **2007**, 370, 643-58	6.5	25
92	Structure and kinetic properties of Paracoccus pantotrophus cytochrome cd1 nitrite reductase with the d1 heme active site ligand tyrosine 25 replaced by serine. *Journal of Biological Chemistry*, **2003**, 278, 11773-81	5.4	25
91	The cytochrome c domain of dimeric cytochrome cd(1) of Paracoccus pantotrophus can be produced at high levels as a monomeric holoprotein using an improved c-type cytochrome expression system in Escherichia coli. *Biochemical and Biophysical Research Communications*, **2001**, 281, 788-94	3.4	25
90	A mutation blocking the formation of membrane or periplasmic endogenous and exogenous c-type cytochromes in Escherichia coli permits the cytoplasmic formation of Hydrogenobacter thermophilus holo cytochrome c552. *FEBS Letters*, **1994**, 344, 207-10	3.8	24
89	Observation of fast release of NO from ferrous d haem allows formulation of a unified reaction mechanism for cytochrome cd nitrite reductases. *Biochemical Journal*, **2011**, 435, 217-25	3.8	23
88	The pseudoazurin gene from Thiosphaera pantotropha: analysis of upstream putative regulatory sequences and overexpression in Escherichia coli. *Biochemical Journal*, **1997**, 321 (Pt 3), 699-705	3.8	23
87	Identification of the contiguous Paracoccus denitrificans ccmF and ccmH genes: disruption of ccmF, encoding a putative transporter, results in formation of an unstable apocytochrome c and deficiency in siderophore production. *Microbiology (United Kingdom)*, **1998**, 144 (Pt 2), 467-477	2.9	23
86	Mutational analysis of the Paracoccus denitrificans c-type cytochrome biosynthetic genes ccmABCDG: disruption of ccmC has distinct effects suggesting a role for CcmC independent of CcmAB. *Microbiology (United Kingdom)*, **1999**, 145 (Pt 11), 3047-3057	2.9	23
85	The interplay between the disulfide bond formation pathway and cytochrome c maturation in Escherichia coli. *FEBS Letters*, **2012**, 586, 1702-7	3.8	22
84	c-Type cytochrome biogenesis can occur via a natural Ccm system lacking CcmH, CcmG, and the heme-binding histidine of CcmE. *Journal of Biological Chemistry*, **2010**, 285, 22882-9	5.4	22

83	Reassessment of pathways of electron flow to nitrate reductase that are coupled to energy conservation in Paracoccus denitrificans. *FEBS Letters*, **1983**, 153, 108-112	3.8	22
82	Comparing the substrate specificities of cytochrome c biogenesis Systems I and II: bioenergetics. *FEBS Journal*, **2010**, 277, 726-37	5.7	21
81	In vitro studies on thioether bond formation between Hydrogenobacter thermophilus apocytochrome c(552) with metalloprotoporphyrin derivatives. *Journal of Biological Chemistry*, **2004**, 279, 45347-53	5.4	20
80	The structure and dynamics in solution of Cu(I) pseudoazurin from Paracoccus pantotrophus. *Protein Science*, **2000**, 9, 846-58	6.3	20
79	Immunochemical identification of a two-subunit NADH-ubiquinone oxidoreductase from Paracoccus denitrificans. *FEBS Journal*, **1984**, 143, 567-73		20
78	The expression of redox proteins of denitrification inThiosphaera pantotropha grown with oxygen, nitrate, and nitrous oxide as electron acceptors. *Archives of Microbiology*, **1995**, 164, 43-49	3	19
77	Variant c-type cytochromes as probes of the substrate specificity of the E. coli cytochrome c maturation (Ccm) apparatus. *Biochemical Journal*, **2009**, 419, 177-84, 2 p following 184	3.8	18
76	Is a proton-pumping cytochrome oxidase essential for energy conservation in Nitrobacter?. *FEBS Letters*, **1982**, 146, 239-243	3.8	18
75	The Paracoccus denitrificans NarK-like nitrate and nitrite transporters-probing nitrate uptake and nitrate/nitrite exchange mechanisms. *Molecular Microbiology*, **2017**, 103, 117-133	4.1	17
74	A pivotal heme-transfer reaction intermediate in cytochrome c biogenesis. *Journal of Biological Chemistry*, **2012**, 287, 2342-52	5.4	17
73	Clarification of factors influencing the nature and magnitude of the protonmotive force in bovine heart submitochondrial particles. *FEBS Journal*, **1981**, 116, 341-6		17
72	Characterisation of membrane vesicles from Paracoccus denitrificans and measurements of the effect of partial uncoupling on their thermodynamics of oxidative phosphorylation. *FEBS Journal*, **1983**, 132, 417-24		17
71	The effects of partial uncoupling upon the kinetics of ATP synthesis by vesicles from Paracoccus denitrificans and by bovine heart submitochondrial particles. Implications for the mechanism of the proton-translocating ATP synthase. *FEBS Journal*, **1983**, 132, 425-31		17
70	Complete assignment of aromatic 1H nuclear magnetic resonances of the tyrosine residues of hen lysozyme. *FEBS Journal*, **1978**, 92, 99-103		17
69	Oxidation state-dependent protein-protein interactions in disulfide cascades. *Journal of Biological Chemistry*, **2011**, 286, 24943-56	5.4	16
68	Pseudoazurin dramatically enhances the reaction profile of nitrite reduction by Paracoccus pantotrophus cytochrome cd1 and facilitates release of product nitric oxide. *Journal of Biological Chemistry*, **2008**, 283, 12555-63	5.4	16
67	The mitochondrial cytochrome c N-terminal region is critical for maturation by holocytochrome c synthase. *FEBS Letters*, **2011**, 585, 1891-6	3.8	15
66	Tuning the formation of a covalent haem-protein link by selection of reductive or oxidative conditions as exemplified by ascorbate peroxidase. *Biochemical Journal*, **2007**, 408, 355-61	3.8	15

65	Heme ligation and conformational plasticity in the isolated c domain of cytochrome cd1 nitrite reductase. *Journal of Biological Chemistry*, **2001**, 276, 5846-55	5.4	15
64	Direct observation with an electrode of uncoupler-sensitive assimilatory nitrate uptake by Rhodopseudomonas capsulata. *FEBS Letters*, **1981**, 136, 275-278	3.8	15
63	The inhibitor-sensitivity of the plasma-membrane adenosine triphosphatase of Paracoccus denitrificans: comparison with the mitochondrial adenosine triphosphatase [proceedings]. *Biochemical Society Transactions*, **1977**, 5, 1525-7	5.1	15
62	Probing the unusual oxidation/reduction behavior of Paracoccus pantotrophus cytochrome cd1 nitrite reductase by replacing a switchable methionine heme iron ligand with histidine. *Biochemistry* , **2006**, 45, 11208-16	3.2	14
61	Control of periplasmic interdomain thiol:disulfide exchange in the transmembrane oxidoreductase DsbD. *Journal of Biological Chemistry*, **2009**, 284, 3219-3226	5.4	13
60	Dispensable residues in the active site of the cytochrome c biogenesis protein CcmH. *FEBS Letters*, **2008**, 582, 3067-72	3.8	13
59	Very early reaction intermediates detected by microsecond time scale kinetics of cytochrome cd1-catalyzed reduction of nitrite. *Journal of Biological Chemistry*, **2008**, 283, 27403-27409	5.4	13
58	A novel conformer of oxidized Paracoccus pantotrophus cytochrome cd(1) observed by freeze-quench NIR-MCD spectroscopy. *Biochemical and Biophysical Research Communications*, **2000**, 279, 674-7	3.4	13
57	Structural investigation of the molybdenum site of the periplasmic nitrate reductase from Thiosphaera pantotropha by X-ray absorption spectroscopy. *Biochemical Journal*, **1996**, 317 (Pt 2), 557-63	3.8	13
56	Mitochondrial cytochrome c synthase: CP motifs are not necessary for heme attachment to apocytochrome c. *FEBS Letters*, **2011**, 585, 3415-9	3.8	12
55	A novel, kinetically stable, catalytically active, all-ferric, nitrite-bound complex of Paracoccus pantotrophus cytochrome cd1. *Biochemical Journal*, **2002**, 366, 883-8	3.8	12
54	The nature of the reaction of an essential tyrosine residue of bovine heart mitochondrial ATPase with 4-chloro-7-nitrobenzofurazan and related compounds. *FEBS Journal*, **1984**, 142, 387-92		12
53	Current-voltage relationships for proton flow through the F0 sector of the ATP-synthase, carbonylcyanide-p-trifluoromethoxyphenylhydrazone or leak pathways in submitochondrial particles. *FEBS Journal*, **1985**, 152, 373-9		12
52	Identification of an essential beta chain lysine residue from bovine heart mitochondrial ATPase specifically modified with nitrobenzofurazan. *FEBS Letters*, **1985**, 179, 283-8	3.8	12
51	A dual functional redox enzyme maturation protein for respiratory and assimilatory nitrate reductases in bacteria. *Molecular Microbiology*, **2019**, 111, 1592-1603	4.1	11
50	Probing heme delivery processes in cytochrome c biogenesis System I. *Biochemistry*, **2013**, 52, 7262-70	3.2	11
49	Assignment of haem ligands and detection of electronic absorption bands of molybdenum in the di-haem periplasmic nitrate reductase of Paracoccus pantotrophus. *FEBS Letters*, **2001**, 500, 71-4	3.8	11
48	The activities of two pathways of nitrate reduction in Rhodopseudomonas capsulata. *Archives of Microbiology*, **1985**, 142, 403-408	3	11

47	Titration of ATP synthase activity with an inhibitor as a function of the rate of generation of protonmotive force in Paracoccus denitrificans vesicles: implications for the mechanism of ATP synthases. *Biochemical Society Transactions*, **1982**, 10, 257-258	5.1	11
46	Aberrant attachment of heme to cytochrome by the Ccm system results in a cysteine persulfide linkage. *Journal of the American Chemical Society*, **2010**, 132, 4974-5	16.4	10
45	Overproduction of CcmABCDEFGH restores cytochrome c maturation in a DsbD deletion strain of E. coli: another route for reductant?. *FEBS Letters*, **2004**, 576, 81-5	3.8	10
44	Competition between hydrogen peroxide and nitrate for electrons from the respiratory chains ofThiosphaera pantotrophaandRhodobacter capsulatus. *FEMS Microbiology Letters*, **1995**, 132, 125-129	2.9	10
43	Simplicity and complexity in electron transfer between NADH and c-type cytochromes in bacteria. *Biochemical Society Transactions*, **1991**, 19, 581-8	5.1	10
42	Structure, control and assembly of a bacterial electron transport system as exemplified by Paracoccus denitrificans. *Biochemical Society Transactions*, **1989**, 17, 991-3	5.1	10
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