# David J Richardson

List of Publications by Year
in descending order



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|---|---|---|---|
| 219 papers | 14,956 citations | 14124 69 h-index | 28425 109 g-index |
| 223 all docs | 223 docs citations | 223 times ranked | 10919 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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. | 0.5 | 516 |
| 2 | Bacterial respiration: a flexible process for a changing environment 1999 Fleming Lecture (Delivered) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 0.7 | 508 |
| 3 | Characterization of an electron conduit between bacteria and the extracellular environment. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22169-22174. | 3.3 | 410 |
| 4 | Biological sources and sinks of nitrous oxide and strategies to mitigate emissions. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1157-1168. | 1.8 | 399 |
| 5 | Structure of a bacterial cell surface decaheme electron conduit. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9384-9389. | 3.3 | 301 |
| 6 | The roles of outer membrane cytochromes of <i>Shewanella</i> and <i>Geobacter</i> in extracellular electron transfer. Environmental Microbiology Reports, 2009, 1, 220-227. | 1.0 | 285 |
| 7 | Inorganic nitrogen metabolism in bacteria. Current Opinion in Chemical Biology, 1999, 3, 207-219. | 2.8 | 239 |
| 8 | The â€˜porinâ€“cytochromeâ€™ model for microbeâ€toâ€mineral electron transfer. Molecular Microbiology, 2012, 85, 201-212. | 1.2 | 222 |
| 9 | Periplasmic and membrane-bound respiratory nitrate reductases inThiosphaera pantotropha. FEBS Letters, 1990, 265, 85-87. | 1.3 | 219 |
| 10 | Self-assembled monolayers: a versatile tool for the formulation of bio-surfaces. TrAC - Trends in Analytical Chemistry, 2000, 19, 530-540. | 5.8 | 215 |
| 11 | Characterization of the Shewanella oneidensis MR-1 Decaheme Cytochrome MtrA. Journal of Biological Chemistry, 2003, 278, 27758-27765. | 1.6 | 209 |
| 12 | Characterization of Shewanella oneidensis MtrC: a cell-surface decaheme cytochrome involved in respiratory electron transport to extracellular electron acceptors. Journal of Biological Inorganic Chemistry, 2007, 12, 1083-1094. | 1.1 | 209 |
| 13 | Identification and Characterization of MtoA: A Decaheme c-Type Cytochrome of the Neutrophilic Fe(II)-Oxidizing Bacterium Sideroxydans lithotrophicus ES-1. Frontiers in Microbiology, 2012, 3, 37. | 1.5 | 186 |
| 14 | Molecular Underpinnings of Fe(III) Oxide Reduction by Shewanella Oneidensis MR-1. Frontiers in Microbiology, 2012, 3, 50. | 1.5 | 186 |
| 15 | Rapid electron exchange between surface-exposed bacterial cytochromes and Fe(III) minerals. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6346-6351. | 3.3 | 179 |
| 16 | A transâ€outer membrane porinâ€cytochrome protein complex for extracellular electron transfer by <scp><i>G</i></scp><i>eobacter sulfurreducens</i>â€...<scp>PCA</scp>. Environmental Microbiology Reports, 2014, 6, 776-785. | 1.0 | 178 |
| 17 | Respiratory Detoxification of Nitric Oxide by the Cytochromec Nitrite Reductase of Escherichia coli. Journal of Biological Chemistry, 2002, 277, 23664-23669. | 1.6 | 171 |
| 18 | Bacterial Adaptation of Respiration from Oxic to Microoxic and Anoxic Conditions: Redox Control. Antioxidants and Redox Signaling, 2012, 16, 819-852. | 2.5 | 170 |

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| 19 | A bacterial process for selenium nanosphere assembly. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13480-13485. | 3.3 | 165 |
| 20 | 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 |
| 21 | Structure and Spectroscopy of the Periplasmic Cytochrome c Nitrite Reductase from Escherichia coli. Biochemistry, 2002, 41, 2921-2931. | 1.2 | 151 |
| 22 | Characterization of Protein-Protein Interactions Involved in Iron Reduction by <i>Shewanella oneidensis</i> MR-1. Applied and Environmental Microbiology, 2007, 73, 5797-5808. | 1.4 | 145 |
| 23 | 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, 319-331. | 1.2 | 144 |
| 24 | Energy-dispersive X-ray analysis of the extracellular cadmium sulfide crystallites of Klebsiella aerogenes. Archives of Microbiology, 1995, 163, 143-147. | 1.0 | 141 |
| 25 | Redox Linked Flavin Sites in Extracellular Decaheme Proteins Involved in Microbe-Mineral Electron Transfer.. Scientific Reports, 2015, 5, 11677. | 1.6 | 138 |
| 26 | Spectroscopic Characterization of a Novel Multihemec-Type Cytochrome Widely Implicated in Bacterial Electron Transport. Journal of Biological Chemistry, 1998, 273, 28785-28790. | 1.6 | 129 |
| 27 | The Crystal Structure of a Biological Insulated Transmembrane Molecular Wire. Cell, 2020, 181, 665-673.e10. | 13.5 | 123 |
| 28 | Copper control of bacterial nitrous oxide emission and its impact on vitamin B <sub>12</sub> -dependent metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19926-19931. | 3.3 | 120 |
| 29 | Dissimilatory Fe(III) reduction byClostridium beijerinckiiisolated from freshwater sediment using Fe(III) maltol enrichment. FEMS Microbiology Letters, 1999, 176, 131-138. | 0.7 | 118 |
| 30 | Nitric oxide in bacteria: synthesis and consumption. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1411, 456-474. | 0.5 | 117 |
| 31 | 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, 377-385. | 0.2 | 116 |
| 32 | A functional description of CymA, an electron-transfer hub supporting anaerobic respiratory flexibility in <i>Shewanella</i>. Biochemical Journal, 2012, 444, 465-474. | 1.7 | 116 |
| 33 | Purification and characterization of the periplasmic nitrate reductase from Thiosphaera pantotropha. FEBS Journal, 1994, 220, 117-124. | 0.2 | 115 |
| 34 | Catalytic Protein Film Voltammetry from a Respiratory Nitrate Reductase Provides Evidence for Complex Electrochemical Modulation of Enzyme Activityâ€. Biochemistry, 2001, 40, 11294-11307. | 1.2 | 115 |
| 35 | Direct Involvement of Type II Secretion System in Extracellular Translocation of <i>Shewanella oneidensis</i> Outer Membrane Cytochromes MtrC and OmcA. Journal of Bacteriology, 2008, 190, 5512-5516. | 1.0 | 113 |
| 36 | Bacterial nitrate assimilation: gene distribution and regulation. Biochemical Society Transactions, 2011, 39, 1838-1843. | 1.6 | 112 |

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| 37 | The purification of ammonia monooxygenase fromParacoccus denitrficans. FEBS Letters, 1996, 387, 71-74. | 1.3 | 111 |
| 38 | Cadmium-specific formation of metal sulfide â€˜Q-particlesâ€™ by Klebsiella pneumoniae. Microbiology (United Kingdom), 1997, 143, 2521-2530. | 0.7 | 110 |
| 39 | The impact of copper, nitrate and carbon status on the emission of nitrous oxide by two species of bacteria with biochemically distinct denitrification pathways. Environmental Microbiology, 2012, 14, 1788-1800. | 1.8 | 110 |
| 40 | Two Conserved Glutamates in the Bacterial Nitric Oxide Reductase Are Essential for Activity but Not Assembly of the Enzyme. Journal of Bacteriology, 2001, 183, 189-199. | 1.0 | 107 |
| 41 | A wide host-range metagenomic library from a waste water treatment plant yields a novel alcohol/aldehyde dehydrogenase. Environmental Microbiology, 2005, 7, 1917-1926. | 1.8 | 107 |
| 42 | Look on the positive side! The orientation, identification and bioenergetics of Ã¢Â€Â˜ArchaealÃ¢Â€Â™ membrane-bound nitrate reductases. FEMS Microbiology Letters, 2007, 276, 129-139. | 0.7 | 107 |
| 43 | Production of Nitric Oxide and Nitrosylleghemoglobin Complexes in Soybean Nodules in Response to Flooding. Molecular Plant-Microbe Interactions, 2010, 23, 702-711. | 1.4 | 107 |
| 44 | Purification and Magneto-optical Spectroscopic Characterization of Cytoplasmic Membrane and Outer Membrane Multiheme c-Type Cytochromes from Shewanella frigidimarina NCIMB400. Journal of Biological Chemistry, 2000, 275, 8515-8522. | 1.6 | 105 |
| 45 | Purification of hydroxylamine oxidase fromThiosphaera pantotropha. FEBS Letters, 1993, 335, 246-250. | 1.3 | 103 |
| 46 | A Low-Redox Potential Heme in the Dinuclear Center of Bacterial Nitric Oxide Reductase: Implications for the Evolution of Energy-Conserving Hemeâˆ'Copper Oxidases. Biochemistry, 1999, 38, 13780-13786. | 1.2 | 102 |
| 47 | A combination of cytochrome c nitrite reductase (NrfA) and flavorubredoxin (NorV) protects Salmonella enterica serovar Typhimurium against killing by NO in anoxic environments. Microbiology (United Kingdom), 2008, 154, 1218-1228. | 0.7 | 101 |
| 48 | Models for Molybdenum Coordination during the Catalytic Cycle of Periplasmic Nitrate Reductase from Paracoccus denitrificans Derived from EPR and EXAFS Spectroscopy. Biochemistry, 1999, 38, 9000-9012. | 1.2 | 99 |
| 49 | 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. | 1.0 | 98 |
| 50 | Solâ€"gel encapsulation of metalloproteins for the development of optical biosensors for nitrogen monoxide and carbon monoxide. Analyst, The, 1995, 120, 2725-2730. | 1.7 | 97 |
| 51 | The Nitric Oxide Reductase Activity of Cytochrome c Nitrite Reductase from Escherichia coli. Journal of Biological Chemistry, 2008, 283, 9587-9594. | 1.6 | 97 |
| 52 | Spectropotentiometric and Structural Analysis of the Periplasmic Nitrate Reductase from Escherichia coli. Journal of Biological Chemistry, 2007, 282, 6425-6437. | 1.6 | 94 |
| 53 | Constraining the conditions conducive to dissimilatory nitrate reduction to ammonium in temperate arable soils. Soil Biology and Biochemistry, 2011, 43, 1607-1611. | 4.2 | 92 |
| 54 | Detection of genes for periplasmic nitrate reductase in nitrate respiring bacteria and in community DNA. FEMS Microbiology Letters, 1999, 177, 263-270. | 0.7 | 90 |

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| 55 | Optical Biosensing of Nitrate Ions Using a Solâ€"Gel Immobilized Nitrate Reductase. Analyst, The, 1997, 122, 77-80. | 1.7 | 89 |
| 56 | The contribution of bacteroidal nitrate and nitrite reduction to the formation of nitrosylleghaemoglobin complexes in soybean root nodules. Microbiology (United Kingdom), 2007, 153, 411-419. | 0.7 | 89 |
| 57 | Resolution of Distinct Membrane-Bound Enzymes from Enterobacter cloacae SLD1a-1 That Are Responsible for Selective Reduction of Nitrate and Selenate Oxyanions. Applied and Environmental Microbiology, 2006, 72, 5173-5180. | 1.4 | 88 |
| 58 | Protein Film Voltammetry Reveals Distinctive Fingerprints of Nitrite and Hydroxylamine Reduction by a Cytochrome c Nitrite Reductase. Journal of Biological Chemistry, 2002, 277, 23374-23381. | 1.6 | 87 |
| 59 | Introduction to the Biochemistry and Molecular Biology of Denitrification. , 2007, , 3-20. | | 87 |
| 60 | Nitrogen metabolism in haloarchaea. Saline Systems, 2008, 4, 9. | 2.0 | 86 |
| 61 | Signal peptide-chaperone interactions on the twin-arginine protein transport pathway. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8460-8465. | 3.3 | 84 |
| 62 | 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, 16267-16276. | 1.2 | 80 |
| 63 | NapGH components of the periplasmic nitrate reductase of Escherichia coli K-12: location, topology and physiological roles in quinol oxidation and redox balancing. Biochemical Journal, 2004, 379, 47-55. | 1.7 | 80 |
| 64 | Purification and characterization of a nitrous oxide reductase from Thiosphaera pantotropha. Implications for the mechanism of aerobic nitrous oxide reduction. FEBS Journal, 1993, 212, 467-476. | 0.2 | 77 |
| 65 | Open conformation of a flavocytochrome c3 fumarate reductase. Nature Structural Biology, 1999, 6, 1104-1107. | 9.7 | 77 |
| 66 | The periplasmic nitrate reductase in Shewanella: the resolution, distribution and functional implications of two NAP isoforms, NapEDABC and NapDAGHB. Microbiology (United Kingdom), 2010, 156, 302-312. | 0.7 | 76 |
| 67 | Tuning a Nitrate Reductase for Function. Journal of Biological Chemistry, 2004, 279, 32212-32218. | 1.6 | 73 |
| 68 | Enzymology and ecology of the nitrogen cycle. Biochemical Society Transactions, 2011, 39, 175-178. | 1.6 | 73 |
| 69 | The Xâ€ray crystal structure of <i>Shewanella oneidensis</i> OmcA reveals new insight at the microbeâ€"mineral interface. FEBS Letters, 2014, 588, 1886-1890. | 1.3 | 73 |
| 70 | Light-Driven H<sub>2</sub> Evolution and Câ•C or Câ•O Bond Hydrogenation by <i>Shewanella oneidensis</i>: A Versatile Strategy for Photocatalysis by Nonphotosynthetic Microorganisms. ACS Catalysis, 2017, 7, 7558-7566. | 5.5 | 72 |
| 71 | The influence of carbon substrate on the activity of the periplasmic nitrate reductase in aerobically grown Thiosphaera pantotropha. Archives of Microbiology, 1992, 157, 535-537. | 1.0 | 72 |
| 72 | Structural diversity in twin-arginine signal peptide-binding proteins. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15641-15646. | 3.3 | 71 |

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| 73 | The crystal structure of the pentahaem <i>c</i>-type cytochrome NrfB and characterization of its solution-state interaction with the pentahaem nitrite reductase NrfA. Biochemical Journal, 2007, 406, 19-30. | 1.7 | 69 |
| 74 | Proteinâ€“Protein Interaction Regulates the Direction of Catalysis and Electron Transfer in a Redox Enzyme Complex. Journal of the American Chemical Society, 2013, 135, 10550-10556. | 6.6 | 68 |
| 75 | Selenate reduction byEnterobacter cloacaeSLD1a-1 is catalysed by a molybdenum-dependent membrane-bound enzyme that is distinct from the membrane-bound nitrate reductase. FEMS Microbiology Letters, 2003, 228, 273-279. | 0.7 | 67 |
| 76 | Control of periplasmic nitrate reductase gene expression (napEDABC) from Paracoccus pantotrophus in response to oxygen and carbon substrates. Microbiology (United Kingdom), 2000, 146, 2977-2985. | 0.7 | 67 |
| 77 | Screening a wide host-range, waste-water metagenomic library in tryptophan auxotrophs of Rhizobium leguminosarum and of Escherichia coli reveals different classes of cloned trp genes. Environmental Microbiology, 2005, 7, 1927-1936. | 1.8 | 65 |
| 78 | 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, 3606-3613. | 1.0 | 64 |
| 79 | Nitrous oxide production in soil isolates of nitrateâ€ammonifying bacteria. Environmental Microbiology Reports, 2012, 4, 66-71. | 1.0 | 64 |
| 80 | Characterization of a flavocytochrome that is induced during the anaerobic respiration of Fe3+ by Shewanella frigidimarina NCIMB400. Biochemical Journal, 1999, 342, 439-448. | 1.7 | 63 |
| 81 | 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, 157-170. | 1.2 | 63 |
| 82 | The bacterial respiratory nitric oxide reductase. Biochemical Society Transactions, 2009, 37, 392-399. | 1.6 | 62 |
| 83 | Characterization of the paramagnetic iron-containing redox centres ofThiosphaera pantotrophaperiplasmic nitrate reductase. FEBS Letters, 1994, 345, 76-80. | 1.3 | 61 |
| 84 | A new assay for nitric oxide reductase reveals two conserved glutamate residues form the entrance to a proton-conducting channel in the bacterial enzyme. Biochemical Journal, 2007, 401, 111-119. | 1.7 | 60 |
| 85 | Radiolabelled proteomics to determine differential functioning of <i>Accumulibacter</i> during the anaerobic and aerobic phases of a bioreactor operating for enhanced biological phosphorus removal. Environmental Microbiology, 2009, 11, 3029-3044. | 1.8 | 60 |
| 86 | The identification of a periplasmic nitrate reductase inParacoccus denitrificans. FEMS Microbiology Letters, 1993, 113, 107-111. | 0.7 | 59 |
| 87 | Characterization of a nitrate-respiring bacterial community using the nitrate reductase gene (narG) as a functional marker. Microbiology (United Kingdom), 2003, 149, 229-237. | 0.7 | 59 |
| 88 | Properties of the periplasmic nitrate reductases fromParacoccus pantotrophusandEscherichia coliafter growth in tungsten-supplemented media. FEMS Microbiology Letters, 2003, 220, 261-269. | 0.7 | 56 |
| 89 | The Crystal Structure of the Extracellular 11-heme Cytochrome UndA Reveals a Conserved 10-heme Motif and Defined Binding Site for Soluble Iron Chelates. Structure, 2012, 20, 1275-1284. | 1.6 | 56 |
| 90 | Mo(V) Electron Paramagnetic Resonance Signals from the Periplasmic Nitrate Reductase of Thiosphaera Pantotropha. FEBS Journal, 1994, 226, 789-798. | 0.2 | 55 |

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| 91 | A composite biochemical system for bacterial nitrate and nitrite assimilation as exemplified by<i>Paracoccus denitrificans</i>. Biochemical Journal, 2011, 435, 743-753. | 1.7 | 55 |
| 92 | Optical Biosensing of Gaseous Nitric Oxide Using Spin-Coated Solâˆ'Gel Thin Films. Chemistry of Materials, 1997, 9, 2261-2263. | 3.2 | 54 |
| 93 | The roles of CymA in support of the respiratory flexibility of <i>Shewanella oneidensis</i> MR-1. Biochemical Society Transactions, 2012, 40, 1217-1221. | 1.6 | 54 |
| 94 | 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, 677-683. | 0.2 | 53 |
| 95 | Nitric oxide detoxification in the rhizobiaâ€"legume symbiosis. Biochemical Society Transactions, 2011, 39, 184-188. | 1.6 | 52 |
| 96 | Detection of genes for membrane-bound nitrate reductase in nitrate-respiring bacteria and in community DNA. FEMS Microbiology Letters, 2000, 183, 275-279. | 0.7 | 51 |
| 97 | 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 |
| 98 | Structural modeling of an outer membrane electron conduit from a metal-reducing bacterium suggests electron transfer via periplasmic redox partners. Journal of Biological Chemistry, 2018, 293, 8103-8112. | 1.6 | 51 |
| 99 | Effect of carbon substrate and aeration on nitrate reduction and expression of the periplasmic and membrane-bound nitrate reductases in carbon-limited continuous cultures of Paracoccus denitrificans Pd1222. Microbiology (United Kingdom), 1997, 143, 3767-3774. | 0.7 | 51 |
| 100 | Dissimilatory iron(III) reduction by Rhodobacter capsulatus. Microbiology (United Kingdom), 1996, 142, 765-774. | 0.7 | 50 |
| 101 | Resolving the contributions of the membrane-bound and periplasmic nitrate reductase systems to nitric oxide and nitrous oxide production in <i>Salmonella enterica</i> serovar Typhimurium. Biochemical Journal, 2012, 441, 755-762. | 1.7 | 50 |
| 102 | The biochemical characterization of a novel non-haem-iron hydroxylamine oxidase from Paracoccus denitrificans GB17. Biochemical Journal, 1996, 319, 823-827. | 1.7 | 49 |
| 103 | The identification of cytochromes involved in the transfer of electrons to the periplasmic NO-3 reductase of Rhodobacter capsulatus and resolution of a soluble NO-3 -reductase - cytochrome-c552 redox complex. FEBS Journal, 1990, 194, 263-270. | 0.2 | 48 |
| 104 | The NapF protein of the Escherichia coli periplasmic nitrate reductase system: demonstration of a cytoplasmic location and interaction with the catalytic subunit, NapA. Microbiology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 217 T | 0.7 | 48 |
| 105 | Defining the Proton Entry Point in the Bacterial Respiratory Nitric-oxide Reductase. Journal of Biological Chemistry, 2008, 283, 3839-3845. | 1.6 | 48 |
| 106 | Characterization of MtoD from Sideroxydans lithotrophicus: a cytochrome c electron shuttle used in lithoautotrophic growth. Frontiers in Microbiology, 2015, 6, 332. | 1.5 | 48 |
| 107 | Role of multiheme cytochromes involved in extracellular anaerobic respiration in bacteria. Protein Science, 2020, 29, 830-842. | 3.1 | 48 |
| 108 | Tuning the modular <i>Paracoccus denitrificans</i> respirome to adapt from aerobic respiration to anaerobic denitrification. Environmental Microbiology, 2017, 19, 4953-4964. | 1.8 | 47 |

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| 109 | An integrated biochemical system for nitrate assimilation and nitric oxide detoxification in <i>Bradyrhizobium japonicum</i>. Biochemical Journal, 2016, 473, 297-309. | 1.7 | 46 |
| 110 | Interdependence of two NarK domains in a fused nitrate/nitrite transporter. Molecular Microbiology, 2008, 70, 667-681. | 1.2 | 45 |
| 111 | Transcriptional and environmental control of bacterial denitrification and N2O emissions. FEMS Microbiology Letters, 2018, 365, . | 0.7 | 45 |
| 112 | Characterisation of chlorate reduction in the haloarchaeon Haloferax mediterranei. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 587-594. | 1.1 | 44 |
| 113 | Fluorescence-Based Siderophore Biosensor for the Determination of Bioavailable Iron in Oceanic Waters. Analytical Chemistry, 2006, 78, 5040-5045. | 3.2 | 43 |
| 114 | Soluble Aldose Sugar Dehydrogenase from Escherichia coli. Journal of Biological Chemistry, 2006, 281, 30650-30659. | 1.6 | 43 |
| 115 | Voltammetric characterization of the aerobic energy-dissipating nitrate reductase of <i>Paracoccus pantotrophus</i>: exploring the activity of a redox-balancing enzyme as a function of electrochemical potential. Biochemical Journal, 2008, 409, 159-168. | 1.7 | 43 |
| 116 | Heterologous expression of heterotrophic nitrification genes. Microbiology (United Kingdom), 1997, 143, 3775-3783. | 0.7 | 42 |
| 117 | Effects of soluble flavin on heterogeneous electron transfer between surface-exposed bacterial cytochromes and iron oxides. Geochimica Et Cosmochimica Acta, 2015, 163, 299-310. | 1.6 | 41 |
| 118 | Exploring the Denitrification Proteome of Paracoccus denitrificans PD1222. Frontiers in Microbiology, 2018, 9, 1137. | 1.5 | 41 |
| 119 | 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, 425-432. | 1.7 | 40 |
| 120 | Construction of a whole-cell gene reporter for the fluorescent bioassay of nitrate. Analytical Biochemistry, 2004, 328, 60-66. | 1.1 | 40 |
| 121 | Identification of cytochromes involved in electron transport to trimethylamine N-oxide/dimethylsulphoxide reductase in Rhodobacter capsulatus. Biochimica Et Biophysica Acta - Bioenergetics, 1989, 973, 308-314. | 0.5 | 38 |
| 122 | Spectral Properties of Bacterial Nitric-oxide Reductase. Journal of Biological Chemistry, 2002, 277, 20146-20150. | 1.6 | 38 |
| 123 | Electrochemical Control of Protein Monolayers at Indium Tin Oxide Surfaces for the Reagentless Optical Biosensing of Nitric Oxide. Langmuir, 2004, 20, 1901-1908. | 1.6 | 38 |
| 124 | Quinol-cytochrome c Oxidoreductase and Cytochrome c4 Mediate Electron Transfer during Selenate Respiration in Thauera selenatis. Journal of Biological Chemistry, 2010, 285, 18433-18442. | 1.6 | 38 |
| 125 | Molecular structure and free energy landscape for electron transport in the decahaem cytochrome MtrF. Biochemical Society Transactions, 2012, 40, 1198-1203. | 1.6 | 37 |
| 126 | NapF Is a Cytoplasmic Iron-Sulfur Protein Required for Fe-S Cluster Assembly in the Periplasmic Nitrate Reductase. Journal of Biological Chemistry, 2004, 279, 49727-49735. | 1.6 | 36 |

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| 127 | Role of a Conserved Glutamine Residue in Tuning the Catalytic Activity of <i>Escherichia coli</i> Cytochrome <i>c</i> Nitrite Reductase. Biochemistry, 2008, 47, 3789-3799. | 1.2 | 36 |
| 128 | Escherichia coli Cytochrome c Nitrite Reductase NrfA. Methods in Enzymology, 2008, 437, 63-77. | 0.4 | 36 |
| 129 | Remnant signal peptides on non-exported enzymes: implications for the evolution of prokaryotic respiratory chains. Microbiology (United Kingdom), 2009, 155, 3992-4004. | 0.7 | 36 |
| 130 | Control of bacterial nitrate assimilation by stabilization of G-quadruplex DNA. Chemical Communications, 2016, 52, 13511-13514. | 2.2 | 35 |
| 131 | Diode or Tunnel-Diode Characteristics? Resolving the Catalytic Consequences of Proton Coupled Electron Transfer in a Multi-Centered Oxidoreductase. Journal of the American Chemical Society, 2005, 127, 14964-14965. | 6.6 | 34 |
| 132 | Purification and Spectropotentiometric Characterization of Escherichia coli NrfB, a Decaheme Homodimer That Transfers Electrons to the Decaheme Periplasmic Nitrite Reductase Complex. Journal of Biological Chemistry, 2004, 279, 41333-41339. | 1.6 | 33 |
| 133 | Reductive activation of nitrate reductases. Dalton Transactions, 2005, , 3580. | 1.6 | 33 |
| 134 | Kinetic and thermodynamic resolution of the interactions between sulfite and the pentahaem cytochrome NrfA from <i>Escherichia coli</i>. Biochemical Journal, 2010, 431, 73-80. | 1.7 | 33 |
| 135 | Electron transport pathways to nitrous oxide in Rhodobacter species. FEBS Journal, 1989, 185, 659-669. | 0.2 | 32 |
| 136 | Using direct electrochemistry to probe rate limiting events during nitrate reductase turnover. Faraday Discussions, 2000, 116, 155-169. | 1.6 | 32 |
| 137 | Features of a twinâ€arginine signal peptide required for recognition by a Tat proofreading chaperone. FEBS Letters, 2008, 582, 3979-3984. | 1.3 | 31 |
| 138 | The nitric oxide response in plant-associated endosymbiotic bacteria. Biochemical Society Transactions, 2011, 39, 1880-1885. | 1.6 | 31 |
| 139 | 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. | 1.7 | 30 |
| 140 | The <scp><i>P</i></scp><i>aracoccus denitrificans</i><scp>N</scp>ar<scp>K</scp>â€like nitrate and nitrite transportersâ€"probing nitrate uptake and nitrate/nitrite exchange mechanisms. Molecular Microbiology, 2017, 103, 117-133. | 1.2 | 30 |
| 141 | High-average-power picosecond mid-infrared OP-GaAs OPO. Optics Express, 2020, 28, 5741. | 1.7 | 30 |
| 142 | Role of<i>Bradyrhizobium japonicum</i>cytochrome<i>c</i><sub>550</sub>in nitrite and nitrate respiration. FEMS Microbiology Letters, 2008, 279, 188-194. | 0.7 | 29 |
| 143 | Nitrogen Oxyanion-dependent Dissociation of a Two-component Complex That Regulates Bacterial Nitrate Assimilation. Journal of Biological Chemistry, 2013, 288, 29692-29702. | 1.6 | 29 |
| 144 | The influence of chelating agents upon the dissimilatory reduction of Fe(III) by Shewanella putrefaciens. BioMetals, 1995, 8, 163. | 1.8 | 28 |

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