

# Julea N Butt

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130  
papers

5,290  
citations

40  
h-index

68  
g-index

137  
ext. papers

6,056  
ext. citations

7.1  
avg, IF

5.32  
L-index

#	Paper	IF	Citations
130	The flavodoxin FldA activates the class Ia ribonucleotide reductase of <i>Campylobacter jejuni</i> . <i>Molecular Microbiology</i> , <b>2021</b> , 116, 343-358	4.1	0
129	Bespoke Biomolecular Wires for Transmembrane Electron Transfer: Spontaneous Assembly of a Functionalized Multiheme Electron Conduit. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 714508	5.7	1
128	Nanosecond heme-to-heme electron transfer rates in a multiheme cytochrome nanowire reported by a spectrally unique His/Met-ligated heme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	6
127	Coherent Electron Transport across a 3 nm Bioelectronic Junction Made of Multi-Heme Proteins. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 9766-9774	6.4	19
126	His/Met heme ligation in the PioA outer membrane cytochrome enabling light-driven extracellular electron transfer by <i>Rhodospseudomonas palustris</i> TIE-1. <i>Nanotechnology</i> , <b>2020</b> , 31, 354002	3.4	2
125	Quantum dot interactions with and toxicity to <i>Shewanella oneidensis</i> MR-1. <i>Nanotechnology</i> , <b>2020</b> , 31, 134005	3.4	6
124	Which Multi-Heme Protein Complex Transfers Electrons More Efficiently? Comparing MtrCAB from with OmcS from. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 9421-9425	6.4	18
123	The Crystal Structure of a Biological Insulated Transmembrane Molecular Wire. <i>Cell</i> , <b>2020</b> , 181, 665-673. <del>5.62</del>	5.62	50
122	Heme ligation and redox chemistry in two bacterial thiosulfate dehydrogenase (TsdA) enzymes. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 18002-18014	5.4	8
121	Ultrafast Light-Driven Electron Transfer in a Ru(II)tris(bipyridine)-Labeled Multiheme Cytochrome. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 15190-15200	16.4	18
120	Towards compartmentalized photocatalysis: multihaem proteins as transmembrane molecular electron conduits. <i>Faraday Discussions</i> , <b>2019</b> , 215, 26-38	3.6	9
119	Biological approaches to artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , <b>2019</b> , 215, 66-83	3.6	
118	Structural modeling of an outer membrane electron conduit from a metal-reducing bacterium suggests electron transfer via periplasmic redox partners. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 8103-8112	5.4	33
117	Electrochemistry of surface-confined enzymes: Inspiration, insight and opportunity for sustainable biotechnology. <i>Current Opinion in Electrochemistry</i> , <b>2018</b> , 8, 81-88	7.2	26
116	Direct evidence for heme-assisted solid-state electronic conduction in multi-heme -type cytochromes. <i>Chemical Science</i> , <b>2018</b> , 9, 7304-7310	9.4	27
115	Photosensitised Multiheme Cytochromes as Light-Driven Molecular Wires and Resistors. <i>ChemBioChem</i> , <b>2018</b> , 19, 2206-2215	3.8	8
114	Membrane-spanning electron transfer proteins from electrogenic bacteria: Production and investigation. <i>Methods in Enzymology</i> , <b>2018</b> , 613, 257-275	1.7	4

113	High Performance Reduction of HO with an Electron Transport Decaheme Cytochrome on a Porous ITO Electrode. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 3324-3327	16.4	34
112	Making Connections: An Amphiphilic Ferrocene Stimulates Bacterial Electricity Production. <i>Chem</i> , <b>2017</b> , 2, 164-167	16.2	0
111	Exploring Step-by-Step Assembly of Nanoparticle:Cytochrome Biohybrid Photoanodes. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1959-1968	4.3	5
110	Multilayered Lipid Membrane Stacks for Biocatalysis Using Membrane Enzymes. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606265	15.6	31
109	Light-Driven H <sub>2</sub> Evolution and C-C or C=O Bond Hydrogenation by <i>Shewanella oneidensis</i> : A Versatile Strategy for Photocatalysis by Nonphotosynthetic Microorganisms. <i>ACS Catalysis</i> , <b>2017</b> , 7, 7558-7566	13.1	47
108	Comparative structure-potential-spectroscopy of the <i>Shewanella</i> outer membrane multiheme cytochromes. <i>Current Opinion in Electrochemistry</i> , <b>2017</b> , 4, 199-205	7.2	19
107	Electron Accepting Units of the Diheme Cytochrome c TsdA, a Bifunctional Thiosulfate Dehydrogenase/Tetrathionate Reductase. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 24804-24818	5.4	22
106	Characterization of Anammox Hydrazine Dehydrogenase, a Key N <sub>2</sub> -producing Enzyme in the Global Nitrogen Cycle. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 17077-92	5.4	65
105	Layer-by-Layer Assembly of Supported Lipid Bilayer Poly-L-Lysine Multilayers. <i>Biomacromolecules</i> , <b>2016</b> , 17, 324-35	6.9	40
104	Influence of haem environment on the catalytic properties of the tetrathionate reductase TsdA from <i>Campylobacter jejuni</i> . <i>Bioscience Reports</i> , <b>2016</b> , 36,	4.1	6
103	Carbon Dots as Versatile Photosensitizers for Solar-Driven Catalysis with Redox Enzymes. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 16722-16730	16.4	144
102	A decahaem cytochrome as an electron conduit in protein-enzyme redox processes. <i>Chemical Communications</i> , <b>2016</b> , 52, 7390-3	5.8	13
101	Photoreduction of <i>Shewanella oneidensis</i> Extracellular Cytochromes by Organic Chromophores and Dye-Sensitized TiO <sub>2</sub> . <i>ChemBioChem</i> , <b>2016</b> , 17, 2324-2333	3.8	12
100	A Decaheme Cytochrome as a Molecular Electron Conduit in Dye-Sensitized Photoanodes. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2308-2315	15.6	15
99	Base-modified NAD and AMP derivatives and their activity against bacterial DNA ligases. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 6380-98	3.9	9
98	Catalytic Protein Film Electrochemistry Provides a Direct Measure of the Tetrathionate/Thiosulfate Reduction Potential. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 13232-5	16.4	29
97	Multi-haem cytochromes in <i>Shewanella oneidensis</i> MR-1: structures, functions and opportunities. <i>Journal of the Royal Society Interface</i> , <b>2015</b> , 12, 20141117	4.1	146
96	Redox Linked Flavin Sites in Extracellular Decaheme Proteins Involved in Microbe-Mineral Electron Transfer. <i>Scientific Reports</i> , <b>2015</b> , 5, 11677	4.9	113

95	Enzyme Film Electrochemistry <b>2015</b> , 105-119		1
94	Characterization of MtoD from <i>Sideroxydans lithotrophicus</i> : a cytochrome c electron shuttle used in lithoautotrophic growth. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 332	5.7	34
93	Resolution of key roles for the distal pocket histidine in cytochrome C nitrite reductases. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 3059-68	16.4	22
92	A trans-outer membrane porin-cytochrome protein complex for extracellular electron transfer by <i>Geobacter sulfurreducens</i> PCA. <i>Environmental Microbiology Reports</i> , <b>2014</b> , 6, 776-85	3.7	130
91	The 11-Heme Cell-Surface Cytochrome UndA of <i>Shewanella</i> sp. HRCR-6 <b>2014</b> , 1-6		
90	Explorations of time and electrochemical potential: opportunities for fresh perspectives on signalling proteins. <i>Biochemical Society Transactions</i> , <b>2014</b> , 42, 47-51	5.1	3
89	Structural basis of biological NO generation by octaheme oxidoreductases. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 1228-42	5.4	65
88	The X-ray crystal structure of <i>Shewanella oneidensis</i> OmcA reveals new insight at the microbe-mineral interface. <i>FEBS Letters</i> , <b>2014</b> , 588, 1886-90	3.8	62
87	Contrasting catalytic profiles of multiheme nitrite reductases containing CxxCK heme-binding motifs. <i>Journal of Biological Inorganic Chemistry</i> , <b>2013</b> , 18, 655-67	3.7	8
86	Protein-protein interaction regulates the direction of catalysis and electron transfer in a redox enzyme complex. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 10550-6	16.4	52
85	Rapid electron exchange between surface-exposed bacterial cytochromes and Fe(III) minerals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 6346-51	11.5	141
84	The Impact of Enzyme Orientation and Electrode Topology on the Catalytic Activity of Adsorbed Redox Enzymes. <i>Electrochimica Acta</i> , <b>2013</b> , 110, 79-85	6.7	15
83	Freely diffusing versus adsorbed protein: Which better mimics the cellular state of a redox protein?. <i>Electrochimica Acta</i> , <b>2013</b> , 110, 73-78	6.7	5
82	The hydrogen-peroxide-induced radical behaviour in human cytochrome c-phospholipid complexes: implications for the enhanced pro-apoptotic activity of the G41S mutant. <i>Biochemical Journal</i> , <b>2013</b> , 456, 441-52	3.8	67
81	Electrode assemblies composed of redox cascades from microbial respiratory electron transfer chains. <i>Biochemical Society Transactions</i> , <b>2013</b> , 41, 1249-53	5.1	4
80	Controlling electron transfer at the microbe-mineral interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 7537-8	11.5	16
79	The crystal structure of the extracellular 11-heme cytochrome UndA reveals a conserved 10-heme motif and defined binding site for soluble iron chelates. <i>Structure</i> , <b>2012</b> , 20, 1275-84	5.2	52
78	The Iporin-cytochromeL model for microbe-to-mineral electron transfer. <i>Molecular Microbiology</i> , <b>2012</b> , 85, 201-12	4.1	161

77	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. <i>Biochemical Journal</i> , <b>2012</b> , 441, 755-62	3.8	40
76	Development of a proteoliposome model to probe transmembrane electron-transfer reactions. <i>Biochemical Society Transactions</i> , <b>2012</b> , 40, 1257-60	5.1	14
75	Exploring the biochemistry at the extracellular redox frontier of bacterial mineral Fe(III) respiration. <i>Biochemical Society Transactions</i> , <b>2012</b> , 40, 493-500	5.1	18
74	The roles of CymA in support of the respiratory flexibility of <i>Shewanella oneidensis</i> MR-1. <i>Biochemical Society Transactions</i> , <b>2012</b> , 40, 1217-21	5.1	39
73	A functional description of CymA, an electron-transfer hub supporting anaerobic respiratory flexibility in <i>Shewanella</i> . <i>Biochemical Journal</i> , <b>2012</b> , 444, 465-74	3.8	88
72	Molecular structure and free energy landscape for electron transport in the decahaem cytochrome MtrF. <i>Biochemical Society Transactions</i> , <b>2012</b> , 40, 1198-203	5.1	32
71	Identification and Characterization of MtoA: A Decaheme c-Type Cytochrome of the Neutrophilic Fe(II)-Oxidizing Bacterium <i>Sideroxydans lithotrophicus</i> ES-1. <i>Frontiers in Microbiology</i> , <b>2012</b> , 3, 37	5.7	130
70	Menaquinone-7 is specific cofactor in tetraheme quinol dehydrogenase CymA. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 14215-25	5.4	64
69	Redox and chemical activities of the hemes in the sulfur oxidation pathway enzyme SoxAX. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 40350-9	5.4	10
68	Physiological function and catalytic versatility of bacterial multihaem cytochromes c involved in nitrogen and sulfur cycling. <i>Biochemical Society Transactions</i> , <b>2011</b> , 39, 1864-70	5.1	36
67	Molecular interactions between multihaem cytochromes: probing the protein-protein interactions between pentahaem cytochromes of a nitrite reductase complex. <i>Biochemical Society Transactions</i> , <b>2011</b> , 39, 263-8	5.1	5
66	Probing a complex of cytochrome c and cardiolipin by magnetic circular dichroism spectroscopy: implications for the initial events in apoptosis. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 19676-9	16.4	63
65	Characterization of the active site and calcium binding in cytochrome c nitrite reductases. <i>Biochemical Society Transactions</i> , <b>2011</b> , 39, 1871-5	5.1	8
64	Electrocatalytic reduction of nitrate and selenate by NapAB. <i>Biochemical Society Transactions</i> , <b>2011</b> , 39, 236-42	5.1	7
63	A haloarchaeal ferredoxin electron donor that plays an essential role in nitrate assimilation. <i>Biochemical Society Transactions</i> , <b>2011</b> , 39, 1844-8	5.1	6
62	Electron transfer to the active site of the bacterial nitric oxide reductase is controlled by ligand binding to heme b. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2011</b> , 1807, 451-7	4.6	15
61	Electrochemical titrations and reaction time courses monitored in situ by magnetic circular dichroism spectroscopy. <i>Analytical Biochemistry</i> , <b>2011</b> , 419, 110-6	3.1	5
60	A novel fluorescent probe for NAD-consuming enzymes. <i>Chemical Communications</i> , <b>2011</b> , 47, 12655-7	5.8	24

59	The relationship between redox enzyme activity and electrochemical potential-cellular and mechanistic implications from protein film electrochemistry. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 7720-31	3.6	21
58	Concentrating membrane proteins using asymmetric traps and AC electric fields. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 6521-4	16.4	32
57	Structure of a bacterial cell surface decaheme electron conduit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 9384-9	11.5	262
56	Redox-active ferrocene-modified Cowpea mosaic virus nanoparticles. <i>Dalton Transactions</i> , <b>2010</b> , 39, 7569-74	4.3	49
55	Kinetic and thermodynamic resolution of the interactions between sulfite and the pentahaem cytochrome NrfA from <i>Escherichia coli</i> . <i>Biochemical Journal</i> , <b>2010</b> , 431, 73-80	3.8	28
54	Characterization of an electron conduit between bacteria and the extracellular environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 22169-74	11.5	322
53	Opportunities for mesoporous nanocrystalline SnO <sub>2</sub> electrodes in kinetic and catalytic analyses of redox proteins. <i>Biochemical Society Transactions</i> , <b>2009</b> , 37, 368-72	5.1	22
52	Role of a conserved glutamine residue in tuning the catalytic activity of <i>Escherichia coli</i> cytochrome c nitrite reductase. <i>Biochemistry</i> , <b>2008</b> , 47, 3789-99	3.2	32
51	Spectroelectrochemical characterization of a pentaheme cytochrome in solution and as electrocatalytically active films on nanocrystalline metal-oxide electrodes. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 8588-9	16.4	48
50	The nitric oxide reductase activity of cytochrome c nitrite reductase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 9587-94	5.4	83
49	<i>Escherichia coli</i> cytochrome c nitrite reductase NrfA. <i>Methods in Enzymology</i> , <b>2008</b> , 437, 63-77	1.7	30
48	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. <i>Biochemical Journal</i> , <b>2008</b> , 409, 159-68	3.8	35
47	Protein voltammetry and spectroscopy: integrating approaches. <i>Theoretical Chemistry Accounts</i> , <b>2008</b> , 119, 107-111	1.9	5
46	Voltammetry of Adsorbed Redox Enzymes: Mechanisms in The Potential Dimension <b>2008</b> , 91-128		10
45	Look on the positive side! The orientation, identification and bioenergetics of IArchaeall membrane-bound nitrate reductases. <i>FEMS Microbiology Letters</i> , <b>2007</b> , 276, 129-39	2.9	92
44	Spectropotentiometric properties and salt-dependent thermotolerance of a [2Fe-2S] ferredoxin-involved nitrate assimilation in <i>Haloferax mediterranei</i> . <i>FEMS Microbiology Letters</i> , <b>2007</b> , 277, 50-5	2.9	6
43	Characterization of <i>Shewanella oneidensis</i> MtrC: a cell-surface decaheme cytochrome involved in respiratory electron transport to extracellular electron acceptors. <i>Journal of Biological Inorganic Chemistry</i> , <b>2007</b> , 12, 1083-94	3.7	173
42	Spectropotentiometric and structural analysis of the periplasmic nitrate reductase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 6425-37	5.4	87

41	Different responses to muon implantation in single- and double-stranded DNA. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 374-375, 437-440	2.8	6
40	Voltammetry and in situ scanning tunneling microscopy of cytochrome C nitrite reductase on Au(111) electrodes. <i>Biophysical Journal</i> , <b>2006</b> , 91, 3897-906	2.9	20
39	Immobilized DNA hairpins for assay of sequential breaking and joining of DNA backbones. <i>Analytical Biochemistry</i> , <b>2006</b> , 358, 90-8	3.1	7
38	Magnetic circular dichroism of hemoproteins with in situ control of electrochemical potential: "MOTTLE". <i>Analytical Biochemistry</i> , <b>2006</b> , 359, 79-83	3.1	15
37	Reductive activation of nitrate reductases. <i>Dalton Transactions</i> , <b>2005</b> , 3580-6	4.3	29
36	Tethered DNA hairpins facilitate electrochemical detection of DNA ligation. <i>Analyst, The</i> , <b>2005</b> , 130, 345-9	4.3	23
35	Diode or tunnel-diode characteristics? Resolving the catalytic consequences of proton coupled electron transfer in a multi-centered oxidoreductase. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 14964-5	16.4	30
34	Redox-triggered events in cytochrome c nitrite reductase. <i>Bioelectrochemistry</i> , <b>2004</b> , 63, 43-7	5.6	21
33	Resolving complexity in the interactions of redox enzymes and their inhibitors: contrasting mechanisms for the inhibition of a cytochrome c nitrite reductase revealed by protein film voltammetry. <i>Biochemistry</i> , <b>2004</b> , 43, 15086-94	3.2	24
32	Avoided Level Crossing Muon Spectroscopy of Free Radicals Formed by Muonium Addition to the Constituents of DNA. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 9302-9309	2.8	9
31	Tuning a nitrate reductase for function. The first spectropotentiometric characterization of a bacterial assimilatory nitrate reductase reveals novel redox properties. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 32212-8	5.4	64
30	Laying the foundation for understanding muon implantation in DNA: ab initio DFT calculations of the nucleic acid base muonium adducts. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 326, 25-29	2.8	8
29	Fundamentals of Electroanalytical Chemistry. By Paul M. S. Monk, John Wiley & Sons: Chichester, England. 384 pp. £34.95. ISBN 0471 88140 6. <i>The Chemical Educator</i> , <b>2002</b> , 7, 122-123		
28	Enzyme-catalysed nitrate reduction-themes and variations as revealed by protein film voltammetry. <i>Bioelectrochemistry</i> , <b>2002</b> , 56, 17-8	5.6	10
27	Spectral properties of bacterial nitric-oxide reductase: resolution of pH-dependent forms of the active site heme b3. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 20146-50	5.4	33
26	Protein film voltammetry reveals distinctive fingerprints of nitrite and hydroxylamine reduction by a cytochrome C nitrite reductase. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 23374-81	5.4	75
25	Multiple forms of the catalytic centre, CuZ, in the enzyme nitrous oxide reductase from <i>Paracoccus pantotrophus</i> . <i>Biochemical Journal</i> , <b>2002</b> , 364, 807-15	3.8	63
24	Spectral properties of bacterial nitric oxide reductase. <i>Biochemical Society Transactions</i> , <b>2002</b> , 30, A76-A76r		

23	Structure and spectroscopy of the periplasmic cytochrome c nitrite reductase from <i>Escherichia coli</i> . <i>Biochemistry</i> , <b>2002</b> , 41, 2921-31	3.2	140
22	Methylene blue as an electrochemical discriminator of single- and double-stranded oligonucleotides immobilised on gold substrates. <i>Analyst, The</i> , <b>2001</b> , 126, 1756-9	5	89
21	Catalytic protein film voltammetry from a respiratory nitrate reductase provides evidence for complex electrochemical modulation of enzyme activity. <i>Biochemistry</i> , <b>2001</b> , 40, 11294-307	3.2	102
20	Voltammetry of a flavocytochrome c(3): the lowest potential heme modulates fumarate reduction rates. <i>Biophysical Journal</i> , <b>2000</b> , 78, 1001-9	2.9	19
19	Using direct electrochemistry to probe rate limiting events during nitrate reductase turnover. <i>Faraday Discussions</i> , <b>2000</b> , 155-69; discussion 171-90	3.6	31
18	Characterization of a flavocytochrome that is induced during the anaerobic respiration of Fe <sup>3+</sup> by <i>Shewanella frigidimarina</i> NCIMB400. <i>Biochemical Journal</i> , <b>1999</b> , 342, 439-448	3.8	58
17	Characterization of a flavocytochrome that is induced during the anaerobic respiration of Fe <sup>3+</sup> by <i>Shewanella frigidimarina</i> NCIMB400. <i>Biochemical Journal</i> , <b>1999</b> , 342, 439	3.8	15
16	Electrochemical Potential and pH Dependences of [3Fe-4S] <-> [M3Fe-4S] Cluster Transformations (M = Fe, Zn, Co, and Cd) in Ferredoxin III from <i>Desulfovibrio africanus</i> and Detection of a Cluster with M = Pb. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 9729-9737	16.4	39
15	Direct electrochemistry of <i>Megasphaera elsdenii</i> iron hydrogenase. Definition of the enzymel catalytic operating potential and quantitation of the catalytic behaviour over a continuous potential range. <i>FEBS Journal</i> , <b>1997</b> , 245, 116-22		56
14	Spectroscopic and voltammetric characterisation of the bacterioferritin-associated ferredoxin of <i>Escherichia coli</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>1996</b> , 229, 635-42	3.4	48
13	Novel Redox Chemistry of [3Fe4S] Clusters: Electrochemical Characterization of the All-Fe(II) Form of the [3Fe4S] Cluster Generated Reversibly in Various Proteins and Its Spectroscopic Investigation in <i>Sulfolobus acidocaldarius</i> Ferredoxin. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 8593-8603	16.4	79
12	Identification of the iron-sulfur clusters in a ferredoxin from the archaeon <i>Sulfolobus acidocaldarius</i> . Evidence for a reduced [3Fe-4S] cluster with pH-dependent electronic properties. <i>FEBS Journal</i> , <b>1995</b> , 233, 937-46		55
11	Formation and properties of a stable high-potential copper-iron-sulphur cluster in a ferredoxin. <i>Nature Structural and Molecular Biology</i> , <b>1994</b> , 1, 427-33	17.6	25
10	Voltammetric study of proton-gated electron transfer in a mutant ferredoxin. Altering aspartate to asparagine blocks oxidation of the [3Fe-4S] cluster of <i>Azotobacter vinelandii</i> ferredoxin I. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 12587-12588	16.4	26
9	Voltammetric characterization of rapid and reversible binding of an exogenous thiolate ligand at a [4Fe-4S] cluster in ferredoxin III from <i>Desulfovibrio africanus</i> . <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 1413-1421	16.4	37
8	Voltammetric studies of redox-active centers in metalloproteins adsorbed on electrodes. <i>Methods in Enzymology</i> , <b>1993</b> , 227, 479-500	1.7	55
7	Iron-sulphur clusters with labile metal ions. <i>Journal of Inorganic Biochemistry</i> , <b>1992</b> , 47, 197-207	4.2	20
6	Fresh Approaches and New Surprises with Iron-Sulfur Clusters <b>1992</b> , 3-12		



- 5 Iron-sulphur clusters in electron transfer, catalysis and control. *Biochemical Society Transactions*, **1991**, 19, 594-9 5.1 5
- 4 Binding of thallium(I) to a [3Fe-4S] cluster: evidence for rapid and reversible formation of [Tl3Fe-4S]<sup>2+</sup> and [Tl3Fe-4S]<sup>1+</sup> centers in a ferredoxin. *Journal of the American Chemical Society*, **1991**, 113, 8948-8950 16.4 52
- 3 Investigation of metal ion uptake reactivities of [3Fe-4S] clusters in proteins: voltammetry of co-adsorbed ferredoxin-aminocyclitol films at graphite electrodes and spectroscopic identification of transformed clusters. *Journal of the American Chemical Society*, **1991**, 113, 6663-6670 16.4 87
- 2 Direct cyclic voltammetry of three ruthenium-modified electron-transfer proteins. *Inorganic Chemistry*, **1990**, 29, 4858-4862 5.1 13
- 1 Evidence for reversible multiple redox transformations of [3Fe-4S] clusters. *FEBS Letters*, **1989**, 259, 15-18 36