

Tom A Clarke

List of Publications by Year in descending order

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67
papers

4,779
citations

109321

35
h-index

98798

67
g-index

69
all docs

69
docs citations

69
times ranked

4217
citing authors

#	ARTICLE	IF	CITATIONS
1	Plugging into bacterial nanowires: a comparison of model electrogenic organisms. <i>Current Opinion in Microbiology</i> , 2022, 66, 56-62.	5.1	11
2	Bespoke Biomolecular Wires for Transmembrane Electron Transfer: Spontaneous Assembly of a Functionalized Multiheme Electron Conduit. <i>Frontiers in Microbiology</i> , 2021, 12, 714508.	3.5	7
3	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> , 2021, 118, .	7.1	29
4	Role of multiheme cytochromes involved in extracellular anaerobic respiration in bacteria. <i>Protein Science</i> , 2020, 29, 830-842.	7.6	48
5	Which Multi-Heme Protein Complex Transfers Electrons More Efficiently? Comparing MtrCAB from <i>Shewanella</i> with OmcS from <i>Geobacter</i> . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9421-9425.	4.6	46
6	Uncovering nature's electronics. <i>Nature Chemical Biology</i> , 2020, 16, 1041-1042.	8.0	2
7	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> , 2020, 31, 354002.	2.6	5
8	The Crystal Structure of a Biological Insulated Transmembrane Molecular Wire. <i>Cell</i> , 2020, 181, 665-673.e10.	28.9	123
9	Ultrafast Light-Driven Electron Transfer in a Ru(II)tris(bipyridine)-Labeled Multiheme Cytochrome. <i>Journal of the American Chemical Society</i> , 2019, 141, 15190-15200.	13.7	28
10	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> , 2018, 293, 8103-8112.	3.4	51
11	Electron transfer process in microbial electrochemical technologies: The role of cell-surface exposed conductive proteins. <i>Bioresource Technology</i> , 2018, 255, 308-317.	9.6	85
12	Electron shuttle-mediated microbial Fe(III) reduction under alkaline conditions. <i>Journal of Soils and Sediments</i> , 2018, 18, 159-168.	3.0	35
13	Whole-cell circular dichroism difference spectroscopy reveals an <i>in vivo</i> -specific deca-heme conformation in bacterial surface cytochromes. <i>Chemical Communications</i> , 2018, 54, 13933-13936.	4.1	10
14	Membrane-spanning electron transfer proteins from electrogenic bacteria: Production and investigation. <i>Methods in Enzymology</i> , 2018, 613, 257-275.	1.0	6
15	An electrogenic redox loop in sulfate reduction reveals a likely widespread mechanism of energy conservation. <i>Nature Communications</i> , 2018, 9, 5448.	12.8	27
16	Extracellular reduction of solid electron acceptors by <i>Shewanella oneidensis</i> . <i>Molecular Microbiology</i> , 2018, 109, 571-583.	2.5	83
17	Photosensitised Multiheme Cytochromes as Light-Driven Molecular Wires and Resistors. <i>ChemBioChem</i> , 2018, 19, 2206-2215.	2.6	10
18	The metabolic impact of extracellular nitrite on aerobic metabolism of <i>Paracoccus denitrificans</i> . <i>Water Research</i> , 2017, 113, 207-214.	11.3	45

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19	Making Connections: An Amphiphilic Ferrocene Stimulates Bacterial Electricity Production. <i>CheM</i> , 2017, 2, 164-167.	11.7	2
20	Light-Driven H ₂ Evolution and C-S or C-O Bond Hydrogenation by <i>Shewanella oneidensis</i> : A Versatile Strategy for Photocatalysis by Nonphotosynthetic Microorganisms. <i>ACS Catalysis</i> , 2017, 7, 7558-7566.	11.2	72
21	Comparative structure-potential-spectroscopy of the <i>Shewanella</i> outer membrane multiheme cytochromes. <i>Current Opinion in Electrochemistry</i> , 2017, 4, 199-205.	4.8	22
22	Mechanisms of Bacterial Extracellular Electron Exchange. <i>Advances in Microbial Physiology</i> , 2016, 68, 87-138.	2.4	140
23	Photoreduction of <i>Shewanella oneidensis</i> Extracellular Cytochromes by Organic Chromophores and Dye-Sensitized TiO ₂ . <i>ChemBioChem</i> , 2016, 17, 2324-2333.	2.6	15
24	Redox Linked Flavin Sites in Extracellular Decaheme Proteins Involved in Microbe-Mineral Electron Transfer.. <i>Scientific Reports</i> , 2015, 5, 11677.	3.3	138
25	Characterization of MtoD from <i>Sideroxydans lithotrophicus</i> : a cytochrome c electron shuttle used in lithoautotrophic growth. <i>Frontiers in Microbiology</i> , 2015, 6, 332.	3.5	48
26	Resolution of Key Roles for the Distal Pocket Histidine in Cytochrome <i>c</i> Nitrite Reductases. <i>Journal of the American Chemical Society</i> , 2015, 137, 3059-3068.	13.7	28
27	Effects of soluble flavin on heterogeneous electron transfer between surface-exposed bacterial cytochromes and iron oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 163, 299-310.	3.9	41
28	Identification of furfural resistant strains of <i>Saccharomyces cerevisiae</i> and <i>Saccharomyces paradoxus</i> from a collection of environmental and industrial isolates. <i>Biotechnology for Biofuels</i> , 2015, 8, 33.	6.2	42
29	The X-ray crystal structure of <i>Shewanella oneidensis</i> OmcA reveals new insight at the microbe-mineral interface. <i>FEBS Letters</i> , 2014, 588, 1886-1890.	2.8	73
30	A trans-outer membrane porin-cytochrome protein complex for extracellular electron transfer by <i>Geobacter sulfurreducens</i> ...PCA. <i>Environmental Microbiology Reports</i> , 2014, 6, 776-785.	2.4	178
31	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> , 2013, 110, 6346-6351.	7.1	179
32	Freely diffusing versus adsorbed protein: Which better mimics the cellular state of a redox protein?. <i>Electrochimica Acta</i> , 2013, 110, 73-78.	5.2	6
33	Controlling electron transfer at the microbe-mineral interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7537-7538.	7.1	20
34	Analysis of structural MtrC models based on homology with the crystal structure of MtrF. <i>Biochemical Society Transactions</i> , 2012, 40, 1181-1185.	3.4	25
35	Development of a proteoliposome model to probe transmembrane electron-transfer reactions. <i>Biochemical Society Transactions</i> , 2012, 40, 1257-1260.	3.4	20
36	Exploring the biochemistry at the extracellular redox frontier of bacterial mineral Fe(III) respiration. <i>Biochemical Society Transactions</i> , 2012, 40, 493-500.	3.4	24

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37	ZraP is a periplasmic molecular chaperone and a repressor of the zinc-responsive two-component regulator ZraSR. <i>Biochemical Journal</i> , 2012, 442, 85-93.	3.7	46
38	Molecular structure and free energy landscape for electron transport in the decahaem cytochrome MtrF. <i>Biochemical Society Transactions</i> , 2012, 40, 1198-1203.	3.4	37
39	Molecular Underpinnings of Fe(III) Oxide Reduction by <i>Shewanella Oneidensis</i> MR-1. <i>Frontiers in Microbiology</i> , 2012, 3, 50.	3.5	186
40	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> , 2012, 20, 1275-1284.	3.3	56
41	The "porin" cytochrome™ model for microbe-to-mineral electron transfer. <i>Molecular Microbiology</i> , 2012, 85, 201-212.	2.5	222
42	The impact of copper, nitrate and carbon status on the emission of nitrous oxide by two species of bacteria with biochemically distinct denitrification pathways. <i>Environmental Microbiology</i> , 2012, 14, 1788-1800.	3.8	110
43	Molecular interactions between multihaem cytochromes: probing the protein-protein interactions between pentahaem cytochromes of a nitrite reductase complex. <i>Biochemical Society Transactions</i> , 2011, 39, 263-268.	3.4	8
44	Characterization of the active site and calcium binding in cytochrome <i>c</i> nitrite reductases. <i>Biochemical Society Transactions</i> , 2011, 39, 1871-1875.	3.4	8
45	Electron transfer and half-reactivity in nitrogenase. <i>Biochemical Society Transactions</i> , 2011, 39, 201-206.	3.4	10
46	Substitutions in the redox-sensing PAS domain of the NifL regulatory protein define an inter-subunit pathway for redox signal transmission. <i>Molecular Microbiology</i> , 2011, 82, 222-235.	2.5	17
47	Structures of <i>Phytophthora</i> RXLR Effector Proteins. <i>Journal of Biological Chemistry</i> , 2011, 286, 35834-35842.	3.4	178
48	Structure of a bacterial cell surface decaheme electron conduit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9384-9389.	7.1	301
49	Kinetic and thermodynamic resolution of the interactions between sulfite and the pentahaem cytochrome NrfA from <i>Escherichia coli</i> . <i>Biochemical Journal</i> , 2010, 431, 73-80.	3.7	33
50	Quaternary structure changes in a second Per-Arnt-Sim domain mediate intramolecular redox signal relay in the NifL regulatory protein. <i>Molecular Microbiology</i> , 2010, 75, 61-75.	2.5	36
51	A Crystal Structure of the Bifunctional Antibiotic Simocyclinone D8, Bound to DNA Gyrase. <i>Science</i> , 2009, 326, 1415-1418.	12.6	81
52	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> , 2009, 106, 22169-22174.	7.1	410
53	Role of a Conserved Glutamine Residue in Tuning the Catalytic Activity of <i>Escherichia coli</i> Cytochrome <i>c</i> Nitrite Reductase. <i>Biochemistry</i> , 2008, 47, 3789-3799.	2.5	36
54	<i>Escherichia coli</i> Cytochrome <i>c</i> Nitrite Reductase NrfA. <i>Methods in Enzymology</i> , 2008, 437, 63-77.	1.0	36

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55	The role of multiheme cytochromes in the respiration of nitrite in <i>Escherichia coli</i> and Fe(III) in <i>Shewanella oneidensis</i> . <i>Biochemical Society Transactions</i> , 2008, 36, 1005-1010.	3.4	18
56	The Transcriptional Repressor Protein NsrR Senses Nitric Oxide Directly via a [2Fe-2S] Cluster. <i>PLoS ONE</i> , 2008, 3, e3623.	2.5	121
57	Spectropotentiometric and Structural Analysis of the Periplasmic Nitrate Reductase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 6425-6437.	3.4	94
58	Characterization of Protein-Protein Interactions Involved in Iron Reduction by <i>Shewanella oneidensis</i> MR-1. <i>Applied and Environmental Microbiology</i> , 2007, 73, 5797-5808.	3.1	145
59	The crystal structure of the pentaheme c-type cytochrome NrfB and characterization of its solution-state interaction with the pentaheme nitrite reductase NrfA. <i>Biochemical Journal</i> , 2007, 406, 19-30.	3.7	69
60	A dedicated heme lyase is required for the maturation of a novel bacterial cytochrome c with unconventional covalent heme binding. <i>Molecular Microbiology</i> , 2007, 64, 1049-1060.	2.5	51
61	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> , 2007, 12, 1083-1094.	2.6	209
62	Signal peptide-chaperone interactions on the twin-arginine protein transport pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8460-8465.	7.1	84
63	Purification and Spectropotentiometric Characterization of <i>Escherichia coli</i> NrfB, a Decaheme Homodimer That Transfers Electrons to the Decaheme Periplasmic Nitrite Reductase Complex. <i>Journal of Biological Chemistry</i> , 2004, 279, 41333-41339.	3.4	33
64	The role of the length and sequence of the linker domain of cytochrome b5 in stimulating cytochrome P450 2B4 catalysis. <i>Journal of Biological Chemistry</i> , 2004, 279, 36809-36818.	3.4	36
65	The Metabolism of Clopidogrel Is Catalyzed by Human Cytochrome P450 3A and Is Inhibited by Atorvastatin. <i>Drug Metabolism and Disposition</i> , 2003, 31, 53-59.	3.3	354
66	Formation of a Tight 1:1 Complex of <i>Clostridium pasteurianum</i> Fe Protein and <i>Azotobacter vinelandii</i> MoFe Protein: Evidence for Long-Range Interactions between the Fe Protein Binding Sites during Catalytic Hydrogen Evolution. <i>Biochemistry</i> , 2000, 39, 11434-11440.	2.5	15
67	<i>Klebsiella pneumoniae</i> Nitrogenase: Formation and Stability of Putative Beryllium Fluoride-ADP Transition State Complexes. <i>Biochemistry</i> , 1999, 38, 9906-9913.	2.5	15