

Sean J Elliott

List of Publications by Year in descending order

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83
papers

3,490
citations

147726

31
h-index

143943

57
g-index

85
all docs

85
docs citations

85
times ranked

3806
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemogenomic profiling on a genome-wide scale using reverse-engineered gene networks. <i>Nature Biotechnology</i> , 2005, 23, 377-383.	9.4	330
2	Enzyme Electrokinetics: Using Protein Film Voltammetry To Investigate Redox Enzymes and Their Mechanisms. <i>Biochemistry</i> , 2003, 42, 8653-8662.	1.2	266
3	The Particulate Methane Monooxygenase from <i>Methylococcus capsulatus</i> (Bath) Is a Novel Copper-containing Three-subunit Enzyme. <i>Journal of Biological Chemistry</i> , 1998, 273, 7957-7966.	1.6	199
4	Electrochemical interrogations of the Mtr cytochromes from <i>Shewanella</i> : opening a potential window. <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 849-854.	1.1	168
5	Regio- and Stereoselectivity of Particulate Methane Monooxygenase from <i>Methylococcus capsulatus</i> (Bath). <i>Journal of the American Chemical Society</i> , 1997, 119, 9949-9955.	6.6	153
6	Silver Nanoparticle-Catalyzed Diels-Alder Cycloadditions of 2-Hydroxychalcones. <i>Journal of the American Chemical Society</i> , 2010, 132, 7514-7518.	6.6	131
7	X-ray Absorption and EPR Studies on the Copper Ions Associated with the Particulate Methane Monooxygenase from <i>Methylococcus capsulatus</i> (Bath). Cu(I) Ions and Their Implications. <i>Journal of the American Chemical Society</i> , 1996, 118, 12766-12776.	6.6	120
8	Alternative FeS cluster ligands: tuning redox potentials and chemistry. <i>Current Opinion in Chemical Biology</i> , 2014, 19, 50-58.	2.8	111
9	A Voltammetric Study of Interdomain Electron Transfer within Sulfite Oxidase. <i>Journal of the American Chemical Society</i> , 2002, 124, 11612-11613.	6.6	90
10	Voltammetric Studies of the Catalytic Mechanism of the Respiratory Nitrate Reductase from <i>Escherichia coli</i> : How Nitrate Reduction and Inhibition Depend on the Oxidation State of the Active Site. <i>Biochemistry</i> , 2004, 43, 799-807.	1.2	88
11	Multi-heme proteins: Nature's electronic multi-purpose tool. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 938-948.	0.5	82
12	Spectroscopic and Electrochemical Characterization of the Iron-Sulfur and Cobalamin Cofactors of TsrM, an Unusual Radical S-Adenosylmethionine Methylase. <i>Journal of the American Chemical Society</i> , 2016, 138, 3416-3426.	6.6	77
13	Bioinformatic and Biochemical Characterizations of C-S Bond Formation and Cleavage Enzymes in the Fungus <i>Neurospora crassa</i> Ergothioneine Biosynthetic Pathway. <i>Organic Letters</i> , 2014, 16, 5382-5385.	2.4	74
14	Crystallographic trapping in the rebeccamycin biosynthetic enzyme RebC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15311-15316.	3.3	72
15	Redox Characterization of the FeS Protein MitoNEET and Impact of Thiazolidinedione Drug Binding. <i>Biochemistry</i> , 2009, 48, 10193-10195.	1.2	68
16	Protein-Protein Interaction Regulates the Direction of Catalysis and Electron Transfer in a Redox Enzyme Complex. <i>Journal of the American Chemical Society</i> , 2013, 135, 10550-10556.	6.6	68
17	Structures of benzylsuccinate synthase elucidate roles of accessory subunits in glycol radical enzyme activation and activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10161-10166.	3.3	55
18	Tools for resolving complexity in the electron transfer networks of multiheme cytochromes c. <i>Metallomics</i> , 2011, 3, 344.	1.0	52

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19	The Copper Clusters in the Particulate Methane Monooxygenase (pMMO) from <i>Methylococcus Capsulatus</i> (Bath). <i>Journal of the Chinese Chemical Society</i> , 2004, 51, 1081-1098.	0.8	50
20	Laue crystal structure of <i>Shewanella oneidensis</i> cytochrome c nitrite reductase from a high-yield expression system. <i>Journal of Biological Inorganic Chemistry</i> , 2012, 17, 647-662.	1.1	50
21	Metalloprotein switches that display chemical-dependent electron transfer in cells. <i>Nature Chemical Biology</i> , 2019, 15, 189-195.	3.9	46
22	MacA is a Second Cytochrome <i>c</i> Peroxidase of <i>Geobacter sulfurreducens</i> . <i>Biochemistry</i> , 2012, 51, 2747-2756.	1.2	44
23	Electrochemical Resolution of the [4Fe-4S] Centers of the AdoMet Radical Enzyme BtrN: Evidence of Proton Coupling and an Unusual, Low-Potential Auxiliary Cluster. <i>Journal of the American Chemical Society</i> , 2015, 137, 8664-8667.	6.6	43
24	Pulsed EPR Studies of Particulate Methane Monooxygenase from <i>Methylococcus Capsulatus</i> (Bath): Evidence for Histidine Ligation. <i>Journal of the American Chemical Society</i> , 1998, 120, 3247-3248.	6.6	42
25	Conserved Hydrogen Bonding Networks of MitoNEET Tune Fe-S Cluster Binding and Structural Stability. <i>Biochemistry</i> , 2013, 52, 4687-4696.	1.2	42
26	Detection and interpretation of redox potential optima in the catalytic activity of enzymes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1555, 54-59.	0.5	41
27	Heme Attachment Motif Mobility Tunes Cytochrome c Redox Potential. <i>Biochemistry</i> , 2007, 46, 11753-11760.	1.2	41
28	The Diheme Cytochrome <i>c</i> Peroxidase from <i>Shewanella oneidensis</i> Requires Reductive Activation. <i>Biochemistry</i> , 2012, 51, 974-985.	1.2	38
29	A Distinctive Electrocatalytic Response from the Cytochrome c Peroxidase of <i>Nitrosomonas europaea</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 13297-13300.	1.6	35
30	Direct Electrochemistry of Tetraheme Cytochromec554 from <i>Nitrosomonas europaea</i> : Redox Cooperativity and Gating. <i>Journal of the American Chemical Society</i> , 2007, 129, 1838-1839.	6.6	32
31	Solution-Based Structural Analysis of the Decaheme Cytochrome, MtrA, by Small-Angle X-ray Scattering and Analytical Ultracentrifugation. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11208-11214.	1.2	32
32	The hydrogen dependent CO ₂ reductase: the first completely CO tolerant FeFe-hydrogenase. <i>Energy and Environmental Science</i> , 2017, 10, 503-508.	15.6	30
33	An Unusual Role for a Mobile Flavin in StaC-like Indolocarbazole Biosynthetic Enzymes. <i>Chemistry and Biology</i> , 2012, 19, 855-865.	6.2	29
34	Molecular basis of cobalamin-dependent RNA modification. <i>Nucleic Acids Research</i> , 2016, 44, gkw806.	6.5	29
35	A Reverse TCA Cycle 2-Oxoacid:Ferredoxin Oxidoreductase that Makes C-C Bonds from CO ₂ . <i>Joule</i> , 2019, 3, 595-611.	11.7	29
36	The Catalytic Bias of 2-Oxoacid:ferredoxin Oxidoreductase in CO ₂ : evolution and reduction through a ferredoxin-mediated electrocatalytic assay. <i>Electrochimica Acta</i> , 2016, 199, 349-356.	2.6	28

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37	Redox Properties of Wild-Type and Heme-Binding Loop Mutants of Bacterial Cytochromes c Measured by Direct Electrochemistry. <i>Inorganic Chemistry</i> , 2005, 44, 8999-9006.	1.9	27
38	Methionine Ligand Lability of Type I Cytochromes: Detection of Ligand Loss Using Protein Film Voltammetry. <i>Journal of the American Chemical Society</i> , 2008, 130, 6682-6683.	6.6	25
39	Oxidative Disassembly of the [2Fe-2S] Cluster of Human Grx2 and Redox Regulation in the Mitochondria. <i>Biochemistry</i> , 2009, 48, 3813-3815.	1.2	25
40	Spectroscopic and Electrochemical Characterization of the Mycofactocin Biosynthetic Protein, MftC, Provides Insight into Its Redox Flipping Mechanism. <i>Biochemistry</i> , 2019, 58, 940-950.	1.2	25
41	Light-driven carbon-carbon bond formation via CO ₂ reduction catalyzed by complexes of CdS nanorods and a 2-oxoacid oxidoreductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 135-140.	3.3	24
42	Hydrogen Bonding Networks Tune Proton-Coupled Redox Steps during the Enzymatic Six-Electron Conversion of Nitrite to Ammonia. <i>Biochemistry</i> , 2014, 53, 5638-5646.	1.2	23
43	The "Bridging" Aspartate 178 in Phthalate Dioxygenase Facilitates Interactions between the Rieske Center and the Iron(II) Mononuclear Center. <i>Biochemistry</i> , 2006, 45, 10208-10216.	1.2	22
44	Direct Electrochemical Characterization of Archaeal Thioredoxins. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4145-4147.	7.2	21
45	Thioredoxin Reductase from <i>Thermoplasma acidophilum</i> : A New Twist on Redox Regulation. <i>Biochemistry</i> , 2008, 47, 9728-9737.	1.2	21
46	Electrochemical Evidence for Multiple Peroxidatic Heme States of the Diheme Cytochrome <i>c</i> Peroxidase of <i>Pseudomonas aeruginosa</i> . <i>Biochemistry</i> , 2009, 48, 87-95.	1.2	20
47	A widely distributed diheme enzyme from Burkholderia that displays an atypically stable bis-Fe(IV) state. <i>Nature Communications</i> , 2019, 10, 1101.	5.8	20
48	Ferredoxins as interchangeable redox components in support of MiaB, a radical S-adenosylmethionine methylthiotransferase. <i>Protein Science</i> , 2019, 28, 267-282.	3.1	20
49	Direct Electrochemistry of <i>Shewanella oneidensis</i> Cytochrome <i>c</i> Nitrite Reductase: Evidence of Interactions across the Dimeric Interface. <i>Biochemistry</i> , 2012, 51, 10175-10185.	1.2	19
50	A Ferredoxin Disulfide Reductase Delivers Electrons to the <i>Methanosarcina barkeri</i> Class III Ribonucleotide Reductase. <i>Biochemistry</i> , 2015, 54, 7019-7028.	1.2	18
51	Methionine Ligand Lability in Bacterial Monoheme Cytochromes <i>c</i> : An Electrochemical Study. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11718-11726.	1.2	17
52	Structural Properties and Catalytic Implications of the SPASM Domain Iron-Sulfur Clusters in <i>Methylobacterium extorquens</i> PqqE. <i>Journal of the American Chemical Society</i> , 2020, 142, 12620-12634.	6.6	17
53	Transformations of the FeS Clusters of the Methylthiotransferases MiaB and RimO, Detected by Direct Electrochemistry. <i>Biochemistry</i> , 2016, 55, 5531-5536.	1.2	16
54	Mind the gap: diversity and reactivity relationships among multihaem cytochromes of the MtrA/DmsE family. <i>Biochemical Society Transactions</i> , 2012, 40, 1268-1273.	1.6	15

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55	Resonance Raman, Electron Paramagnetic Resonance, and Magnetic Circular Dichroism Spectroscopic Investigation of Diheme Cytochrome <i>c</i> Peroxidases from <i>Nitrosomonas europaea</i> and <i>Shewanella oneidensis</i> . <i>Biochemistry</i> , 2018, 57, 6416-6433.	1.2	15
56	Parsing redox potentials of five ferredoxins found within <i>Thermotoga maritima</i> . <i>Protein Science</i> , 2019, 28, 257-266.	3.1	14
57	OvoA _{Mtht} from <i>Methyloversatilis thermotolerans</i> ovothiol biosynthesis is a bifunction enzyme: thiol oxygenase and sulfoxide synthase activities. <i>Chemical Science</i> , 2022, 13, 3589-3598.	3.7	14
58	Deconvoluting the Reduction Potentials for the Three [4Fe-4S] Clusters in an AdoMet Radical SCIFF Maturase. <i>Biochemistry</i> , 2018, 57, 6050-6053.	1.2	13
59	The Biochemistry Of the Particulate Methane Monooxygenase. , 1996, , 150-158.		13
60	Rheostat Re-Wired: Alternative Hypotheses for the Control of Thioredoxin Reduction Potentials. <i>PLoS ONE</i> , 2015, 10, e0122466.	1.1	13
61	Protonation and inhibition of <i>Nitrosomonas europaea</i> cytochrome <i>c</i> peroxidase observed with protein film voltammetry. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 173-179.	1.5	12
62	Deconvolution of reduction potentials of formate dehydrogenase from <i>Cupriavidus necator</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 889-898.	1.1	12
63	Direct Electrochemical Analyses of a Thermophilic Thioredoxin Reductase: Interplay between Conformational Change and Redox Chemistry. <i>Biochemistry</i> , 2008, 47, 9738-9746.	1.2	10
64	Methionine Ligand Lability of Homologous Monoheme Cytochromes <i>c</i> . <i>Inorganic Chemistry</i> , 2015, 54, 38-46.	1.9	10
65	Determining Redox Potentials of the Iron-Sulfur Clusters of the AdoMet Radical Enzyme Superfamily. <i>Methods in Enzymology</i> , 2018, 606, 319-339.	0.4	10
66	Influence of heme <i>c</i> attachment on heme conformation and potential. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 1073-1083.	1.1	10
67	Electronic State of the His/Tyr-Ligated Heme of BthA by Mössbauer and DFT Analysis. <i>Inorganic Chemistry</i> , 2020, 59, 10223-10233.	1.9	10
68	Maximizing (Electro)catalytic CO ₂ Reduction with a Ferredoxin-Based Reduction Potential Gradient. <i>ACS Catalysis</i> , 2021, 11, 4009-4023.	5.5	10
69	Flavin-Induced Oligomerization in <i>Escherichia coli</i> Adaptive Response Protein AidB. <i>Biochemistry</i> , 2011, 50, 10159-10169.	1.2	9
70	<i>Geobacter sulfurreducens</i> Cytochrome <i>c</i> Peroxidases: Electrochemical Classification of Catalytic Mechanisms. <i>Biochemistry</i> , 2011, 50, 4513-4520.	1.2	9
71	Correlations between the Electronic Properties of <i>Shewanella oneidensis</i> Cytochrome <i>c</i> Nitrite Reductase (ccNiR) and Its Structure: Effects of Heme Oxidation State and Active Site Ligation. <i>Biochemistry</i> , 2015, 54, 3749-3758.	1.2	9
72	Impact of Quaternary Structure upon Bacterial Cytochrome <i>c</i> Peroxidases: Does Homodimerization Matter?. <i>Biochemistry</i> , 2012, 51, 10008-10016.	1.2	8

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73	Functionally Distinct Bacterial Cytochrome <i>c</i> Peroxidases Proceed through a Common (Electro)catalytic Intermediate. <i>Biochemistry</i> , 2016, 55, 125-132.	1.2	7
74	Mechanism of Reduction of an Aminyl Radical Intermediate in the Radical SAM GTP 3- β -8-Cyclase MoaA. <i>Journal of the American Chemical Society</i> , 2021, 143, 13835-13844.	6.6	7
75	Electrochemical Characterization of <i>Escherichia coli</i> Adaptive Response Protein AidB. <i>International Journal of Molecular Sciences</i> , 2012, 13, 16899-16915.	1.8	6
76	Elucidating Electron Storage and Distribution within the Pentaheme Scaffold of Cytochrome <i>c</i> Nitrite Reductase (NrfA). <i>Biochemistry</i> , 2021, 60, 1853-1867.	1.2	6
77	A Stable Ferryl Porphyrin at the Active Site of Y463M BthA. <i>Journal of the American Chemical Society</i> , 2020, 142, 11978-11982.	6.6	1
78	Bioenergetics Theory and Components Iron-Sulfur Proteins. , 2021, , 53-65.		0
79	Direct Electrochemistry of <i>Shewanella oneidensis</i> Cytochrome <i>c</i> Nitrite Reductase. <i>FASEB Journal</i> , 2013, 27, 1b59.	0.2	0
80	Electrochemical investigation of a radical S-adenosylmethionine enzyme: BtrN from <i>Bacillus circulans</i> . <i>FASEB Journal</i> , 2013, 27, .	0.2	0
81	Proton-Dependence of the MitoNEET [2Fe-2S] Cluster : An Electrochemical and Structural Investigation. <i>FASEB Journal</i> , 2013, 27, 1b175.	0.2	0
82	Bacterial Cytochrome <i>c</i> Peroxidases: Insight into the Structure-Function Relationship. <i>FASEB Journal</i> , 2015, 29, 722.12.	0.2	0
83	Potential New Chemical Roles for Diheme Enzymes in <i>Burkholderia</i> . <i>FASEB Journal</i> , 2015, 29, 573.24.	0.2	0