

Scot E Wherland

List of Publications by Year in descending order

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50
papers

1,375
citations

331670

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Pulse Radiolysis Studies of Temperature Dependent Electron Transfers among Redox Centers in <i>ba</i> -Cytochrome <i>c</i> -Oxidase from <i>Thermus thermophilus</i> : Comparison of A- and B-Type Enzymes. <i>Biochemistry</i> , 2022, 61, 2506-2521.	2.5	7
2	Radiation chemists look at damage in redox proteins induced by X-rays. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, 817-826.	2.6	5
3	Intramolecular Electron Transfer in the Bacterial Two-Domain Multicopper Oxidase mgLAC. <i>Biochemistry</i> , 2016, 55, 2960-2966.	2.5	2
4	Recovery of rhodium with a novel soft donor ligand using solvent extraction techniques in chloride media. <i>Dalton Transactions</i> , 2016, 45, 3264-3267.	3.3	7
5	Controlling time scales for electron transfer through proteins. <i>Perspectives in Science</i> , 2015, 6, 94-105.	0.6	2
6	Long-Range Electron Transfer in Engineered Azurins Exhibits Marcus Inverted Region Behavior. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 100-105.	4.6	25
7	Multicopper oxidases: intramolecular electron transfer and O ₂ reduction. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 541-554.	2.6	28
8	Designed azurins show lower reorganization free energies for intraprotein electron transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10536-10540.	7.1	41
9	Electron Transfer Reactivity of Type Zero <i>Pseudomonas aeruginosa</i> Azurin. <i>Journal of the American Chemical Society</i> , 2011, 133, 4865-4873.	13.7	52
10	Intramolecular electron transfer in laccases. <i>FEBS Journal</i> , 2011, 278, 3463-3471.	4.7	45
11	Electron Transfer Reactivity of the <i>Arabidopsis thaliana</i> Sulfhydryl Oxidase AtErv1. <i>Journal of Biological Chemistry</i> , 2009, 284, 2098-2105.	3.4	5
12	Intramolecular Electron Transfer in <i>Pseudomonas aeruginosa</i> cd1 Nitrite Reductase: Thermodynamics and Kinetics. <i>Biophysical Journal</i> , 2009, 96, 2849-2856.	0.5	29
13	Site-Site Interactions Enhances Intramolecular Electron Transfer in <i>Streptomyces coelicolor</i> laccase. <i>Journal of the American Chemical Society</i> , 2009, 131, 18226-18227.	13.7	27
14	Effect of Water on the Heck Reactions Catalyzed by Recyclable Palladium Chloride in Ionic Liquids Coupled with Supercritical CO ₂ Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 4433-4435.	3.7	33
15	Intramolecular Electron Transfer in Nitrite Reductases. <i>ChemPhysChem</i> , 2005, 6, 805-812.	2.1	16
16	Intramolecular Electron Transfer in Nitrite Reductases. <i>ChemPhysChem</i> , 2005, 6, 1440-1440.	2.1	1
17	[Cu(i)(bpp)]BF ₄ : the first extended coordination network prepared solvothermally in an ionic liquid solvent. <i>Chemical Communications</i> , 2002, , 2872-2873.	4.1	175
18	Pressure Dependence of Peroxynitrite Reactions. Support for a Radical Mechanism. <i>Inorganic Chemistry</i> , 2001, 40, 528-532.	4.0	20

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19	Extensive inhibition by ion pairing in a bimolecular, outer-sphere electron transfer reaction, reduction of a cobalt clathrochelate by ferrocene in methylene chloride. <i>Inorganica Chimica Acta</i> , 2001, 313, 37-42.	2.4	7
20	Activation of η^5 -Cyclopentadienyl Ligands toward Nucleophilic Attack through $\eta^5 \rightarrow \eta^3$ Ring Slippage. Kinetics, Thermodynamics, and NMR Spectroscopy. <i>Organometallics</i> , 1998, 17, 2391-2393.	2.3	32
21	Electron Self-Exchange of $\text{Re}_2\text{X}_4(\text{PMe}_2\text{Ph})_4$ (X = Cl, Br) by ^1H NMR Line Broadening in Methylene Chloride. <i>Inorganic Chemistry</i> , 1997, 36, 6235-6237.	4.0	8
22	Outer-Sphere Electron Transfer in Methylene Chloride: Concentration, Salt, and Temperature Dependences of the Oxidation of $\eta^2\text{-Re}_2\text{X}_4(\text{cis-1,2-bis}(\text{diphenylphosphino})\text{ethylene})_2$ (X = Cl, Br) by $[\text{Co}(\text{dimethylglyoximate})_3(\text{BF}_4)_2]\text{BF}_4$ and the Oxidation of $\text{Re}_2\text{Br}_4(\text{PMe}_2\text{Ph})_4$ by $[\text{Co}(\text{1,2-cyclohexanedione})_2]\text{Et}_4\text{N}^+\text{BF}_4^-$ / Overlock	4.0	10
23	Outer electron transfer in methylene chloride: concentration, salt, and temperature dependences of the oxidation of $\text{trans-ReX}_2(\text{cis-1,2-bis}(\text{diphenylphosphino})\text{ethylene})_2$ (X = Cl, Br) by the clathrochelate $[\text{Co}(\text{1,2-cyclohexanedionedioximate})_3(\text{BButyl})_2]\text{BF}_4$. <i>Inorganica Chimica Acta</i> , 1996, 242, 159-164.	2.4	6
24	Structure-function correlation of intramolecular electron transfer in wild type and single-site mutated azurins. <i>Chemical Physics</i> , 1996, 204, 271-277.	1.9	51
25	Non-aqueous, outer-sphere electron transfer kinetics of transition metal complexes. <i>Coordination Chemistry Reviews</i> , 1993, 123, 169-199.	18.8	59
26	Pressure dependence of the rate constants for the electron/atom self-exchange between $\text{M(II)}(\text{cp}^2)$ and $[\text{M}(\text{cp}^2)_2]^+$ in various solvents. <i>Inorganic Chemistry</i> , 1992, 31, 2605-2608.	4.0	10
27	Molar volumes of coordination complexes in nonaqueous solution: correlation with computed van der Waals volumes, crystal unit cell volumes, and charge. <i>Inorganic Chemistry</i> , 1992, 31, 2460-2464.	4.0	28
28	Nonaqueous, outer-sphere electron transfer: ΔH^\ddagger , ΔS^\ddagger , and ΔV^\ddagger for a O_2^+ charge-type reaction. <i>Inorganic Chemistry</i> , 1991, 30, 624-629.	4.0	20
29	Volumes of activation for electron transfer between a series of cobalt clathrochelates and ferrocenes as a function of solvent and added electrolyte. <i>Inorganic Chemistry</i> , 1991, 30, 139-144.	4.0	33
30	Analysis of dihedral angles distribution: The doublets distribution determines polypeptides conformations. <i>Biopolymers</i> , 1990, 30, 499-508.	2.4	8
31	Electron self-exchange of the dicyclopentadienylnickel(II,III) couple in dichloromethane. <i>Inorganic Chemistry</i> , 1990, 29, 1130-1132.	4.0	8
32	Solvent and temperature dependences of the osmocene(II)/iodosmocene(IV) atom/electron exchange. <i>Inorganic Chemistry</i> , 1990, 29, 4556-4559.	4.0	11
33	Solvent, anion, and temperature dependences of the ruthenocene(II)/bromoruthenocene(IV) and ruthenocene(II)/iodoruthenocene(IV) electron exchange. <i>Inorganic Chemistry</i> , 1990, 29, 2381-2385.	4.0	11
34	Solvent dependence of the electron self-exchange of hexakis(2,6-diisopropylphenyl) $\text{Ti}(\text{O}i\text{Pr})_4$ / Overlock 10 Tf 50 147 Td (isocytosine) <i>Inorganic Chemistry</i> , 1990, 29, 3822-3828.	4.0	9
35	A 3D building blocks approach to analyzing and predicting structure of proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 1989, 5, 355-373.	2.6	234
36	Electron transfer in a series of cobalt clathrochelates in nonaqueous solution. <i>Inorganic Chemistry</i> , 1989, 28, 2859-2863.	4.0	13

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37	Electron self-exchange of hexakis(2,6-diisopropylphenyl isocyanide) chromium(0,I) in dichloromethane. <i>Inorganic Chemistry</i> , 1989, 28, 601-604.	4.0	9
38	Electron exchange by hexakis(tert-butyl isocyanide)- and hexakis(cyclohexyl isocyanide)manganese(I,II). Solvent effect on the rate constant and the volume of activation. <i>Inorganic Chemistry</i> , 1988, 27, 2893-2897.	4.0	13
39	Three-dimensional model of stellacyanin and its implications for electron transfer reactivity. <i>Journal of Molecular Biology</i> , 1988, 204, 407-415.	4.2	23
40	Electron-transfer studies on a series of cobalt clathrochelates in acetonitrile. <i>Inorganic Chemistry</i> , 1986, 25, 901-905.	4.0	35
41	Volumes of activation for electron exchange by hexakis(alkyl isocyanide)manganese(+2+) complexes in acetonitrile. <i>Inorganic Chemistry</i> , 1986, 25, 1964-1968.	4.0	11
42	Electron self-exchange by hexakis(aryl isocyanide)manganese(I/II): concentration, electrotype, and temperature dependences. <i>Inorganic Chemistry</i> , 1986, 25, 2437-2440.	4.0	5
43	Mn(CNR) ₆ +2+ electron self-exchange in acetonitrile. A possible distance dependence for a bimolecular electron-transfer reaction in solution. <i>Journal of the American Chemical Society</i> , 1985, 107, 1505-1510.	13.7	14
44	Reduction potential and bonding trends in manganese(I) and manganese(II) hexakis(aryl and alkyl) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	4.0	15
45	Preparations and properties of tripodal and linear tetradentate N,S-Donor ligands and their complexes containing the MoO ₂ +core. <i>Inorganica Chimica Acta</i> , 1984, 90, 41-51.	2.4	60
46	Solvent, temperature, and electrolyte studies on the electron-transfer reaction between ferrocene and a cobalt clathrochelate. <i>Inorganic Chemistry</i> , 1984, 23, 2537-2542.	4.0	23
47	Substituted cysteamine ligands and their complexes with molybdenum(VI). <i>Inorganic Chemistry</i> , 1984, 23, 3404-3412.	4.0	18
48	Ionic strength dependence of the volume of activation for reactions between ions. <i>Inorganic Chemistry</i> , 1983, 22, 2349-2350.	4.0	25
49	Electron transfer between a cobalt clathrochelate and ferrocene in acetonitrile. <i>Inorganic Chemistry</i> , 1982, 21, 93-97.	4.0	25
50	Interactions between polynucleotides and platinum(II) complexes. <i>Biochemical and Biophysical Research Communications</i> , 1973, 54, 662-668.	2.1	21