Scot E Wherland

List of Publications by Year
in descending order

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50 papers	1,375 citations	331670 21 h-index	345221 36 g-index
51 all docs	51 docs citations	51 times ranked	1307 citing authors

#	Article	IF	Citations
1	A 3D building blocks approach to analyzing and predicting structure of proteins. Proteins: Structure, Function and Bioinformatics, 1989, 5, 355-373.	2.6	234
2	[Cu(i)(bpp)]BF4: the first extended coordination network prepared solvothermally in an ionic liquid solvent. Chemical Communications, 2002, , 2872-2873.	4.1	175
3	Preparations and properties of tripodal and linear tetradentate N,S-Donor ligands and their complexes containing the MoO22+core. Inorganica Chimica Acta, 1984, 90, 41-51.	2.4	60
4	Non-aqueous, outer-sphere electron transfer kinetics of transition metal complexes. Coordination Chemistry Reviews, 1993, 123, 169-199.	18.8	59
5	Electron Transfer Reactivity of Type Zero Pseudomonas aeruginosa Azurin. Journal of the American Chemical Society, 2011, 133, 4865-4873.	13.7	52
6	Structure-function correlation of intramolecular electron transfer in wild type and single-site mutated azurins. Chemical Physics, 1996, 204, 271-277.	1.9	51
7	Intramolecular electron transfer in laccases. FEBS Journal, 2011, 278, 3463-3471.	4.7	45
8	Designed azurins show lower reorganization free energies for intraprotein electron transfer. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10536-10540.	7.1	41
9	Electron-transfer studies on a series of cobalt clathrochelates in acetonitrile. Inorganic Chemistry, 1986, 25, 901-905.	4.0	35
10	Volumes of activation for electron transfer between a series of cobalt clathrochelates and ferrocenes as a function of solvent and added electrolyte. Inorganic Chemistry, 1991, 30, 139-144.	4.0	33
11	Effect of Water on the Heck Reactions Catalyzed by Recyclable Palladium Chloride in Ionic Liquids Coupled with Supercritical CO2Extraction. Industrial & Engineering Chemistry Research, 2006, 45, 4433-4435.	3.7	33
12	Activation of Î·5-Cyclopentadienyl Ligands toward Nucleophilic Attack through Î·5 â†' Î·3 Ring Slippage. Kinetics, Thermodynamics, and NMR Spectroscopy. Organometallics, 1998, 17, 2391-2393.	2.3	32
13	Intramolecular Electron Transfer in Pseudomonas aeruginosa cd1 Nitrite Reductase: Thermodynamics and Kinetics. Biophysical Journal, 2009, 96, 2849-2856.	0.5	29
14	Molar volumes of coordination complexes in nonaqueous solution: correlation with computed van der Waals volumes, crystal unit cell volumes, and charge. Inorganic Chemistry, 1992, 31, 2460-2464.	4.0	28
15	Multicopper oxidases: intramolecular electron transfer and O2 reduction. Journal of Biological Inorganic Chemistry, 2014, 19, 541-554.	2.6	28
16	Siteâ^'Site Interactions Enhances Intramolecular Electron Transfer in Streptomyces coelicolor laccase. Journal of the American Chemical Society, 2009, 131, 18226-18227.	13.7	27
17	Electron transfer between a cobalt clathrochelate and ferrocene in acetonitrile. Inorganic Chemistry, 1982, 21, 93-97.	4.0	25
18	Ionic strength dependence of the volume of activation for reactions between ions. Inorganic Chemistry, 1983, 22, 2349-2350.	4.0	25

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19	Long-Range Electron Transfer in Engineered Azurins Exhibits Marcus Inverted Region Behavior. Journal of Physical Chemistry Letters, 2015, 6, 100-105.	4.6	25
20	Solvent, temperature, and electrolyte studies on the electron-transfer reaction between ferrocene and a cobalt clathrochelate. Inorganic Chemistry, 1984, 23, 2537-2542.	4.0	23
21	Three-dimensional model of stellacyanin and its implications for electron transfer reactivity. Journal of Molecular Biology, 1988, 204, 407-415.	4.2	23
22	Interactions between polynucleotides and platinum(II) complexes. Biochemical and Biophysical Research Communications, 1973, 54, 662-668.	2.1	21
23	Nonaqueous, outer-sphere electron transfer: .DELTA.H.thermod., .DELTA.S.thermod., and .DELTA.V.thermod. for a O/2+ charge-type reaction. Inorganic Chemistry, 1991, 30, 624-629.	4.0	20
24	Pressure Dependence of Peroxynitrite Reactions. Support for a Radical Mechanism. Inorganic Chemistry, 2001, 40, 528-532.	4.0	20
25	Substituted cysteamine ligands and their complexes with molybdenum(VI). Inorganic Chemistry, 1984, 23, 3404-3412.	4.0	18
26	Intramolecular Electron Transfer in Nitrite Reductases. ChemPhysChem, 2005, 6, 805-812.	2.1	16
27	Reduction potential and bonding trends in manganese(I) and manganese(II) hexakis(aryl and alkyl) Tj ETQq1 1 0.784314 rgBT /Overlo	4.0	15
28	Mn(CNR)6+/2+ electron self-exchange in acetonitrile. A possible distance dependence for a bimolecular electron-transfer reaction in solution. Journal of the American Chemical Society, 1985, 107, 1505-1510.	13.7	14
29	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. Inorganic Chemistry, 1988, 27, 2893-2897.	4.0	13
30	Electron transfer in a series of cobalt clathrochelates in nonaqueous solution. Inorganic Chemistry, 1989, 28, 2859-2863.	4.0	13
31	Volumes of activation for electron exchange by hexakis(alkyl isocyanide)manganese(+/2+) complexes in acetonitrile. Inorganic Chemistry, 1986, 25, 1964-1968.	4.0	11
32	Solvent and temperature dependences of the osmocene(II)/iodoosmocene(IV) atom/electron exchange. Inorganic Chemistry, 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. Inorganic Chemistry, 1990, 29, 2381-2385.	4.0	11
34	Pressure dependence of the rate constants for the electron/atom self-exchange between MII (cp2 and) Tj ETQq0 0 0 rgBT /Overlock 10 T solvent. Inorganic Chemistry, 1992, 31, 2605-2608.	4.0	10
35	Outer-Sphere Electron Transfer in Methylene Chloride:Â Concentration, Salt, and Temperature Dependences of the Oxidation of Î²-Re2X4(cis-1,2-bis(diphenylphosphino)ethylene)2(X = Cl, Br) by [Co(dimethylglyoximate)3(BF)2]BF4and the Oxidation of Re2Br4(PMe2Ph)4by [Co(1,2-cyclohexanedione) Tj ETQq1 1 0.784314 rgBT	4.0	10
36	Electron self-exchange of hexakis(2,6-diisopropylphenyl isocyanide) chromium(0,I) in dichloromethane. Inorganic Chemistry, 1989, 28, 601-604.	4.0	9

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37	Solvent dependence of the electron self-exchange of hexakis(2,6-diisopropylphenyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 74 Chemistry, 1990, 29, 3822-3828.	4.0	9
38	Analysis of dihedral angles distribution: The doublets distribution determines polypeptides conformations. Biopolymers, 1990, 30, 499-508.	2.4	8
39	Electron self-exchange of the dicyclopentadienylnickel(II,III) couple in dichloromethane. Inorganic Chemistry, 1990, 29, 1130-1132.	4.0	8
40	Electron Self-Exchange of Re2X4(PMe2Ph)40/+ (X = Cl, Br) by 1H NMR Line Broadening in Methylene Chloride. Inorganic Chemistry, 1997, 36, 6235-6237.	4.0	8
41	Extensive inhibition by ion pairing in a bimolecular, outer-sphere electron transfer reaction, reduction of a cobalt clathrochelate by ferrocene in methylene chloride. Inorganica Chimica Acta, 2001, 313, 37-42.	2.4	7
42	Pulse Radiolysis Studies of Temperature Dependent Electron Transfers among Redox Centers inba₃-CytochromecOxidase fromThermus thermophilus: Comparison of A- and B-Type Enzymes. Biochemistry, 2022, 61, 2506-2521.	2.5	7
43	Recovery of rhodium with a novel soft donor ligand using solvent extraction techniques in chloride media. Dalton Transactions, 2016, 45, 3264-3267.	3.3	7
44	Outer electron transfer in methylene chloride: concentration, salt, and temperature dependences of the oxidation of trans-ReX2(cis-1,2 bis(diphenylphosphino)ethylene)2 (X = Cl, Br) by the clathrochelate [Co(1,2-cyclohexanedionedioximate)3(BButyl)2]BF4. Inorganica Chimica Acta, 1996, 242, 159-164.	2.4	6
45	Electron self-exchange by hexakis(aryl isocyanide)manganese(I/II): concentration, electrotype, and temperature dependences. Inorganic Chemistry, 1986, 25, 2437-2440.	4.0	5
46	Electron Transfer Reactivity of the Arabidopsis thaliana Sulfhydryl Oxidase AtErv1. Journal of Biological Chemistry, 2009, 284, 2098-2105.	3.4	5
47	Radiation chemists look at damage in redox proteins induced by Xâ€rays. Proteins: Structure, Function and Bioinformatics, 2018, 86, 817-826.	2.6	5
48	Controlling time scales for electron transfer through proteins. Perspectives in Science, 2015, 6, 94-105.	0.6	2
49	Intramolecular Electron Transfer in the Bacterial Two-Domain Multicopper Oxidase mgLAC. Biochemistry, 2016, 55, 2960-2966.	2.5	2
50	Intramolecular Electron Transfer in Nitrite Reductases. ChemPhysChem, 2005, 6, 1440-1440.	2.1	1