

Jeffrey R Harmer

List of Publications by Year in descending order

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111
papers

4,233
citations

87843

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docs citations

122
times ranked

4642
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanochemically Synthesised Flexible Electrodes Based on Bimetallic Metal-Organic Framework Classes for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	41
2	Electrochemically driven catalysis of the bacterial molybdenum enzyme YiiM. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2022, 1863, 148523.	0.5	6
3	An Altered Heme Environment in an Engineered Cytochrome P450 Enzyme Enables the Switch from Monooxygenase to Peroxygenase Activity. <i>ACS Catalysis</i> , 2022, 12, 1614-1625.	5.5	29
4	The Cytochrome P450 OxyA from the Kistamicin Biosynthesis Cyclization Cascade is Highly Sensitive to Oxidative Damage. <i>Frontiers in Chemistry</i> , 2022, 10, 868240.	1.8	6
5	Catalytic electrochemistry of the bacterial Molybdoenzyme YcbX. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2022, 1863, 148579.	0.5	3
6	Enzyme Electrode Biosensors for <i>N</i> -Hydroxylated Prodrugs Incorporating the Mitochondrial Amidoxime Reducing Component. <i>Analytical Chemistry</i> , 2022, 94, 9208-9215.	3.2	5
7	Copper Complexes of Benzoylacetone Bis-Thiosemicarbazones: Metal and Ligand Based Redox Reactivity. <i>Australian Journal of Chemistry</i> , 2021, 74, 34.	0.5	4
8	Active site architecture reveals coordination sphere flexibility and specificity determinants in a group of closely related molybdoenzymes. <i>Journal of Biological Chemistry</i> , 2021, 296, 100672.	1.6	7
9	A Trap-Door Mechanism for Zinc Acquisition by <i>Streptococcus pneumoniae</i> AdcA. <i>MBio</i> , 2021, 12, .	1.8	8
10	Understanding the Mechanistic Requirements for Efficient and Stereoselective Alkene Epoxidation by a Cytochrome P450 Enzyme. <i>ACS Catalysis</i> , 2021, 11, 1995-2010.	5.5	30
11	Mapping the Pathway to Organocopper(II) Complexes Relevant to Atom Transfer Radical Polymerization. <i>Inorganic Chemistry</i> , 2021, 60, 10648-10655.	1.9	5
12	TOAC spin-labeled peptides tailored for DNP-NMR studies in lipid membrane environments. <i>Biophysical Journal</i> , 2021, 120, 4501-4511.	0.2	5
13	Non-Oxidative Vanadium(IV) Metalloradical Complexes with Bidentate 1,2-Dithienylethene Ligands: Observation of Reversible Cyclization of the Ligand Scaffold in Solution. <i>Chemistry - A European Journal</i> , 2020, 26, 1335-1343.	1.7	4
14	The oxidation-reduction and electrocatalytic properties of CO dehydrogenase from <i>Oligotropha carboxidovorans</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148118.	0.5	9
15	Engineering proton conductivity in melanin using metal doping. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8050-8060.	2.9	27
16	Biophysical Techniques for Distinguishing Ligand Binding Modes in Cytochrome P450 Monooxygenases. <i>Biochemistry</i> , 2020, 59, 1038-1050.	1.2	20
17	Cross-linking, DEER-spectroscopy and molecular dynamics confirm the inward facing state of P-glycoprotein in a lipid membrane. <i>Journal of Structural Biology</i> , 2020, 211, 107513.	1.3	7
18	Amyloid β chaperone α lipocalin-type prostaglandin D synthase acts as a peroxidase in the presence of heme. <i>Biochemical Journal</i> , 2020, 477, 1227-1240.	1.7	8

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19	Phosphanyl Cyanophosphide Salts: Versatile PCN Building Blocks. <i>Angewandte Chemie</i> , 2019, 131, 11551-11555.	1.6	10
20	Phosphanyl Cyanophosphide Salts: Versatile PCN Building Blocks. <i>Angewandte Chemie</i> , 2019, 131, 11666.	1.6	0
21	Trivalent copper stabilised by acetylacetonate dithiocarbamate Schiff base ligands: structural, spectroscopic and electrochemical properties. <i>Dalton Transactions</i> , 2019, 48, 15501-15514.	1.6	11
22	Metastable phosphorus neutral monoradical: a key intermediate in the bicyclic cage formation. <i>Dalton Transactions</i> , 2019, 48, 2549-2553.	1.6	13
23	Phosphanyl Cyanophosphide Salts: Versatile PCN Building Blocks. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11429-11433.	7.2	15
24	Optimizing the transformation of HYSCORE data using the maximum entropy algorithm. <i>Journal of Magnetic Resonance</i> , 2019, 301, 30-39.	1.2	2
25	A Structural Model of a P450-Ferredoxin Complex from Orientation-Selective Double Electronâ€“Electron Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2018, 140, 2514-2527.	6.6	22
26	$L_3C_3P_3$: Tricarbontriphosphide Tricyclic Radicals and Cations Stabilized by Cyclic (alkyl)(amino)carbenes. <i>Angewandte Chemie</i> , 2018, 130, 204-208.	1.6	22
27	Heteroatomâ€“interchanged Isomers of Lissoclinamide 5: Copper(II) Complexation, Halide Binding, and Biological Activity. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 1465-1476.	1.2	8
28	The central active site arginine in sulfite oxidizing enzymes alters kinetic properties by controlling electron transfer and redox interactions. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 19-27.	0.5	7
29	$L_3C_3P_3$: Tricarbontriphosphide Tricyclic Radicals and Cations Stabilized by Cyclic (alkyl)(amino)carbenes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 198-202.	7.2	42
30	A New Mixed-Valence Mn(II)Mn(III) Compound With Catalase and Superoxide Dismutase Activities. <i>Frontiers in Chemistry</i> , 2018, 6, 491.	1.8	23
31	Efficient biosynthesis of heterodimeric C3-aryl pyrroloindoline alkaloids. <i>Nature Communications</i> , 2018, 9, 4428.	5.8	53
32	$(L)_2C_2P_2$: Dicarbondiphosphide Stabilized by Nâ€“Heterocyclic Carbenes or Cyclic Diamido Carbenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5744-5749.	7.2	102
33	$(L)_2C_2P_2$: Dicarbondiphosphide Stabilized by Nâ€“Heterocyclic Carbenes or Cyclic Diamido Carbenes. <i>Angewandte Chemie</i> , 2017, 129, 5838-5843.	1.6	55
34	Reaction mechanism of the metallohydrolase CpsB from <i>Streptococcus pneumoniae</i> , a promising target for novel antimicrobial agents. <i>Dalton Transactions</i> , 2017, 46, 13194-13201.	1.6	8
35	Elucidating the mechanism of the Leyâ€“Griffith (TPAP) alcohol oxidation. <i>Chemical Science</i> , 2017, 8, 8435-8442.	3.7	18
36	CW and Pulse EPR of Cytochrome P450 to Determine Structure and Function. <i>Biological Magnetic Resonance</i> , 2017, , 103-142.	0.4	5

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37	Design of silk proteins with increased heme binding capacity and fabrication of silk-heme materials. <i>Journal of Inorganic Biochemistry</i> , 2017, 177, 219-227.	1.5	5
38	Characterization of a highly efficient antibiotic-degrading metallo- β -lactamase obtained from an uncultured member of a permafrost community. <i>Metallomics</i> , 2017, 9, 1157-1168.	1.0	17
39	Electronic Delocalization in the Radical Cations of Porphyrin Oligomer Molecular Wires. <i>Journal of the American Chemical Society</i> , 2017, 139, 10461-10471.	6.6	67
40	High Resolution Crystal Structures of the Acetohydroxyacid Synthase-Pyruvate Complex Provide New Insights into Its Catalytic Mechanism. <i>ChemistrySelect</i> , 2017, 2, 11981-11988.	0.7	6
41	Controlling Au Photodeposition on Large ZnO Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14271-14283.	4.0	58
42	From 0 to II in One-Electron Steps: A Series of Ruthenium Complexes Supported by TropPPh 2. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11999-12002.	7.2	12
43	Zero-Valent Amino-Olefin Cobalt Complexes as Catalysts for Oxygen Atom Transfer Reactions from Nitrous Oxide. <i>Angewandte Chemie</i> , 2016, 128, 15549-15554.	1.6	22
44	Zero-Valent Amino-Olefin Cobalt Complexes as Catalysts for Oxygen Atom Transfer Reactions from Nitrous Oxide. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15323-15328.	7.2	26
45	ALM-1: An Antibiotic-Degrading Metallohydrolase That Displays Mechanistic Flexibility. <i>Chemistry - A European Journal</i> , 2016, 22, 17704-17714.	1.7	28
46	From 0 to II in One-Electron Steps: A Series of Ruthenium Complexes Supported by TropPPh 2. <i>Angewandte Chemie</i> , 2016, 128, 12178-12181.	1.6	7
47	Exploiting orientation-selective DEER: determining molecular structure in systems containing Cu(II) centres. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5981-5994.	1.3	48
48	Isolation and Characterization of a Bismuth(II) Radical. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10630-10633.	7.2	93
49	Diaryldichalcogenide radical cations. <i>Chemical Science</i> , 2015, 6, 497-504.	3.7	40
50	Stable GaX ₂ , InX ₂ and TlX ₂ radicals. <i>Nature Chemistry</i> , 2014, 6, 315-319.	6.6	101
51	EPR analysis of cyanide complexes of wild-type human neuroglobin and mutants in comparison to horse heart myoglobin. <i>Biophysical Chemistry</i> , 2014, 190-191, 8-16.	1.5	4
52	Insights into the Electronic Structure of Cu(II) Bound to an Imidazole Analogue of Westiellamide. <i>Inorganic Chemistry</i> , 2014, 53, 12323-12336.	1.9	14
53	Non-uniform sampling in EPR – optimizing data acquisition for HYSCORE spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16378-16382.	1.3	8
54	Sodium phosphoethynolate, Na(OCP), as a σ -transfer reagent for the synthesis of N-heterocyclic carbene supported P ₃ and PAsP radicals. <i>Chemical Science</i> , 2014, 5, 1545-1554.	3.7	206

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55	Development of a Metal-Mediated Base Pair for Electron Transfer in DNA. <i>Chemistry - A European Journal</i> , 2013, 19, 12547-12552.	1.7	70
56	Multielement NMR Studies of the Liquid-Liquid Phase Separation and the Metal-to-Nonmetal Transition in Fluid Lithium and Sodium Ammonia Solutions. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13322-13334.	1.2	13
57	140 H/D Isotopomers Identified by Long-Range NMR Hyperfine Shifts in Ruthenium(III) Ammine Complexes. Hyperconjugation in Ru-NH ₃ Bonding. <i>Inorganic Chemistry</i> , 2013, 52, 7280-7294.	1.9	3
58	Structural model for the protein-translocating element of the twin-arginine transport system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1092-101.	3.3	99
59	Orientation-Selective DEER Using Rigid Spin Labels, Cofactors, Metals, and Clusters. <i>Structure and Bonding</i> , 2013, , 283-327.	1.0	24
60	Characterisation of the paramagnetic [2Fe ²⁺ S] ₂ centre in palustrisredoxin-B (PuxB) from <i>Rhodospseudomonas palustris</i> CGA009: g-matrix determination and spin coupling analysis. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6526.	1.3	15
61	EPR Spectroscopic Studies of the Fe-S Clusters in the O ₂ -Tolerant [NiFe]-Hydrogenase Hyd-1 from <i>Escherichia coli</i> and Characterization of the Unique [4Fe ²⁺ S] ₃ Cluster by HYSORE. <i>Journal of the American Chemical Society</i> , 2012, 134, 15581-15594.	6.6	88
62	Electron Tunneling in Lithium Ammonia Solutions Probed by Frequency-Dependent Electron Spin Relaxation Studies. <i>Journal of the American Chemical Society</i> , 2012, 134, 9209-9218.	6.6	13
63	DEER-Stitch: Combining three- and four-pulse DEER measurements for high sensitivity, deadtime free data. <i>Journal of Magnetic Resonance</i> , 2012, 223, 98-106.	1.2	30
64	An aqueous non-heme Fe(IV)oxo complex with a basic group in the second coordination sphere. <i>Chemical Communications</i> , 2012, 48, 10880.	2.2	30
65	Structure and function of CYP108D1 from <i>Novosphingobium aromaticivorans</i> DSM12444: an aromatic hydrocarbon-binding P450 enzyme. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 277-291.	2.5	25
66	Covalency in the 4f Shell of tris-Cyclopentadienyl Ytterbium (YbCp ₃) ⁺ A Spectroscopic Evaluation. <i>Journal of the American Chemical Society</i> , 2011, 133, 20644-20660.	6.6	56
67	Electromeric Rhodium Radical Complexes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 385-389.	7.2	33
68	Electromeric Rhodium Radical Complexes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1909-1909.	7.2	2
69	How <i>Escherichia coli</i> Is Equipped to Oxidize Hydrogen under Different Redox Conditions. <i>Journal of Biological Chemistry</i> , 2010, 285, 3928-3938.	1.6	204
70	How <i>Escherichia coli</i> is equipped to oxidize hydrogen under different redox conditions.. <i>Journal of Biological Chemistry</i> , 2010, 285, 20421.	1.6	5
71	Direct assignment of EPR spectra to structurally defined iron-sulfur clusters in complex I by double electron-electron resonance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1930-1935.	3.3	116
72	Size dependent oxygen buffering capacity of ceria nanocrystals. <i>Chemical Communications</i> , 2010, 46, 1887-1889.	2.2	201

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73	Binding of Coenzyme B Induces a Major Conformational Change in the Active Site of Methyl-Coenzyme M Reductase. <i>Journal of the American Chemical Society</i> , 2010, 132, 567-575.	6.6	48
74	A critical evaluation of the mode of incorporation of nitrogen in doped anatase photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 960-969.	1.3	52
75	Using EPR to follow reversible dihydrogen addition to paramagnetic clusters of high hydride count: [Rh6(PCy3)6H12]+ and [Rh6(PCy3)6H14]+. <i>Dalton Transactions</i> , 2010, 39, 1726-1733.	1.6	8
76	Syntheses, Structures and Electronic Properties of Zwitterionic Iron(II) and Cobalt(II) Complexes Featuring Ambidentate Tris(pyrazolyl)methanide Ligands. <i>Chemistry - A European Journal</i> , 2009, 15, 4350-4365.	1.7	45
77	Cryogenic 35GHz pulse ENDOR probehead accommodating large sample sizes: Performance and applications. <i>Journal of Magnetic Resonance</i> , 2009, 200, 81-87.	1.2	41
78	Electron Spin Resonance Investigation of Hydrogen Absorption in Ball-Milled Graphite. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5409-5416.	1.5	41
79	Structural information from orientationally selective DEER spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6840.	1.3	109
80	Advanced Pulse EPR Methods for the Characterization of Metalloproteins. <i>Biological Magnetic Resonance</i> , 2009, , 13-61.	0.4	17
81	Cryogenic Q-band (35GHz) probehead featuring large excitation microwave fields for pulse and continuous wave electron paramagnetic resonance spectroscopy: Performance and applications. <i>Journal of Magnetic Resonance</i> , 2008, 190, 280-291.	1.2	16
82	Coordination and binding geometry of methyl-coenzyme M in the red1m state of methyl-coenzyme M reductase. <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 1275-1289.	1.1	11
83	Rhodium and Iridium Amino, Amido, and Aminyl Radical Complexes. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 4691-4703.	1.0	28
84	Photoisomerization of a Fullerene Dimer. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2802-2804.	1.5	38
85	A comparative study of the electronic structures of SrCu2O2 and PbCu2O2 by density functional theory, high resolution X-ray photoemission and electron paramagnetic resonance spectroscopy. <i>Journal of Materials Chemistry</i> , 2008, 18, 2798.	6.7	21
86	A Nickel Hydride Complex in the Active Site of Methyl-Coenzyme M Reductase: Implications for the Catalytic Cycle. <i>Journal of the American Chemical Society</i> , 2008, 130, 10907-10920.	6.6	68
87	Formation of a Nickel ^{III} Methyl Species in Methyl-Coenzyme M Reductase, an Enzyme Catalyzing Methane Formation. <i>Journal of the American Chemical Society</i> , 2007, 129, 11028-11029.	6.6	74
88	Mechanistic Insights into Stereoselective Catalysis—The Effects of Counterions in a Cull ^{II} -Bisulfoximine-Catalyzed Diels-Alder Reaction. <i>Chemistry - A European Journal</i> , 2007, 13, 1842-1850.	1.7	20
89	Metalloenzyme-Inspired Catalysis: Selective Oxidation of Primary Alcohols with an Iridium ^{III} -Aminyl-Radical Complex. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3567-3570.	7.2	108
90	Radio frequencies in EPR: Conventional and advanced use. <i>Applied Magnetic Resonance</i> , 2007, 31, 627-647.	0.6	5

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91	Two sub-states of the red2 state of methyl-coenzyme M reductase revealed by high-field EPR spectroscopy. <i>Journal of Biological Inorganic Chemistry</i> , 2007, 12, 1097-1105.	1.1	15
92	New perspectives for olefin complexes: Synthesis and characterisation of stable rhodium(0) and iridium(0) complexes. <i>Special Publication - Royal Society of Chemistry</i> , 2007, , 222-239.	0.0	0
93	A Tetracoordinated Rhodium Aminyl Radical Complex. <i>Journal of the American Chemical Society</i> , 2006, 128, 6578-6580.	6.6	70
94	Synthesis of a Rhodaazacyclopropane and Characterization of Its Radical Cation by EPR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3265-3269.	7.2	25
95	A Nickel-alkyl Bond in an Inactivated State of the Enzyme Catalyzing Methane Formation. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3602-3607.	7.2	49
96	Pulse EPR Methods for Studying Chemical and Biological Samples Containing Transition Metals. <i>Helvetica Chimica Acta</i> , 2006, 89, 2495-2521.	1.0	44
97	A Stable Aminyl Radical Metal Complex. <i>Science</i> , 2005, 307, 235-238.	6.0	203
98	Spin Density and Coenzyme M Coordination Geometry of the ox1 Form of Methyl-Coenzyme M Reductase: A Pulse EPR Study. <i>Journal of the American Chemical Society</i> , 2005, 127, 17744-17755.	6.6	54
99	Stereochemical Control of the Redox Potential of Tetracoordinate Rhodium Complexes. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2567-2570.	7.2	13
100	“Naked”-Phosphanediide Chains and their Fragmentation into Diphosphene Radical Anions. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4093-4097.	7.2	55
101	The Coordination Chemistry of the Pentadentate 2,2,6,6-Tetrakis(aminomethyl)-4-azaheptane (ditame). <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 1340-1354.	1.0	14
102	TROPDAD: A New Ligand for the Synthesis of Water-Stable Paramagnetic [16+1]-Electron Rhodium and Iridium Complexes. <i>Chemistry - A European Journal</i> , 2003, 9, 3859-3866.	1.7	20
103	Spectroscopic Investigations of Bis(sulfoximine) Copper(II) Complexes and Their Relevance in Asymmetric Catalysis. <i>Journal of the American Chemical Society</i> , 2003, 125, 6222-6227.	6.6	54
104	Characterization of the MCRred2 form of methyl-coenzyme M reductase: a pulse EPR and ENDOR study. <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 586-593.	1.1	33
105	Coenzyme B Induced Coordination of Coenzyme M via Its Thiol Group to Ni(I) of F430 in Active Methyl-Coenzyme M Reductase. <i>Journal of the American Chemical Society</i> , 2003, 125, 4988-4989.	6.6	59
106	A Pulse EPR and ENDOR Investigation of the Electronic Structure of a δ -Carbon-Bonded Cobalt(IV) Corrole. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2801-2811.	1.2	54
107	High-Resolution EPR Spectroscopic Investigations of a Homologous Set of d9-Cobalt(0), d9-Rhodium(0), and d9-Iridium(0) Complexes. <i>Chemistry - A European Journal</i> , 2002, 8, 601-611.	1.7	47
108	Corrin nitrogens and remote dimethylbenzimidazole nitrogen interactions in Cob(II)alamin studied with HYSCORE at X- and Q-band. <i>Chemical Physics Letters</i> , 2002, 358, 8-16.	1.2	27

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109	Highly Efficient Phosphodiester Hydrolysis Promoted by a Dinuclear Copper(II) Complex. <i>Inorganic Chemistry</i> , 2001, 40, 4918-4927.	1.9	58
110	A novel approach for coal characterization by NMR spectroscopy: global analysis of proton T1 and T2 relaxations. <i>Fuel</i> , 2001, 80, 417-425.	3.4	45
111	A rapid coal characterisation analysis by low-resolution NMR spectroscopy and partial least-squares regression. <i>Fuel</i> , 2001, 80, 1341-1349.	3.4	7