JamesÂ M Mayer

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Free Energies of Proton-Coupled Electron Transfer Reagents and Their Applications. Chemical Reviews, 2022, 122, 1-49.	23.0	146
2	Structural and Thermodynamic Effects on the Kinetics of Câ€“H Oxidation by Multisite Proton-Coupled Electron Transfer in Fluorenyl Benzoates. Journal of Organic Chemistry, 2022, , .	1.7	3
3	Facile conversion of ammonia to a nitride in a rhenium system that cleaves dinitrogen. Chemical Science, 2022, 13, 4010-4018.	3.7	11
4	Aqueous TiO₂ Nanoparticles React by Proton-Coupled Electron Transfer. Inorganic Chemistry, 2022, 61, 767-777.	1.9	12
5	Electrolyte Cation Effects on Interfacial Acidity and Electric Fields. Journal of Physical Chemistry C, 2022, 126, 8477-8488.	1.5	11
6	Bridge Sites of Au Surfaces Are Active for Electrocatalytic CO₂ Reduction. Journal of the American Chemical Society, 2022, 144, 8641-8648.	6.6	38
7	Visible Light-Mediated, Highly Diastereoselective Epimerization of Lactams from the Most Accessible to the More Stable Stereoisomer. ACS Catalysis, 2022, 12, 7798-7803.	5.5	9
8	Câ€“H oxidation in fluorenyl benzoates does not proceed through a stepwise pathway: revisiting asynchronous proton-coupled electron transfer. Chemical Science, 2021, 12, 13127-13136.	3.7	7
9	Multiple selectivity-determining mechanisms of H₂O₂formation in iron porphyrin-catalysed oxygen reduction. Chemical Communications, 2021, 57, 1202-1205.	2.2	18
10	Nanoparticle Oâ€“H Bond Dissociation Free Energies from Equilibrium Measurements of Cerium Oxide Colloids. Journal of the American Chemical Society, 2021, 143, 2896-2907.	6.6	25
11	All Four Atropisomers of Iron Tetra(<i>o</i>-<i>N</i>,<i>N</i>,<i>N</i>-trimethylanilinium)porphyrin in Both the Ferric and Ferrous States. Inorganic Chemistry, 2021, 60, 5240-5251.	1.9	14
12	Bimodal Evansâ€“Polanyi Relationships in Hydrogen Atom Transfer from C(sp³)â€“H Bonds to the Cumyloxyl Radical. A Combined Time-Resolved Kinetic and Computational Study. Journal of the American Chemical Society, 2021, 143, 11759-11776.	6.6	39
13	Oriented Electrostatic Effects on O₂ and CO₂ Reduction by a Polycationic Iron Porphyrin. Journal of the American Chemical Society, 2021, 143, 11423-11434.	6.6	64
14	Interfacial Acidâ€“Base Equilibria and Electric Fields Concurrently Probed by <i>In Situ</i> Surface-Enhanced Infrared Spectroscopy. Journal of the American Chemical Society, 2021, 143, 10778-10792.	6.6	40
15	Solvent and Temperature Effects on Photoinduced Proton-Coupled Electron Transfer in the Marcus Inverted Region. Journal of Physical Chemistry A, 2021, 125, 7670-7684.	1.1	7
16	Front Cover: Structural, Electronic, and Thermochemical Preference for Multiâ€PCET Reactivity of Ruthenium(II)â€Amine and Ruthenium(IV)â€Amido Complexes (Eur. J. Inorg. Chem. 39/2021). European Journal of Inorganic Chemistry, 2021, 2021, 4042-4042.	1.0	0
17	Proton-Coupled Defects Impact Oâ€“H Bond Dissociation Free Energies on Metal Oxide Surfaces. Journal of Physical Chemistry Letters, 2021, 12, 9761-9767.	2.1	16
18	Different Kinetic Reactivities of Electrons in Distinct TiO₂ Nanoparticle Trap States. Journal of Physical Chemistry C, 2021, 125, 680-690.	1.5	3

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19	General Light-Mediated, Highly Diastereoselective Piperidine Epimerization: From Most Accessible to Most Stable Stereoisomer. Journal of the American Chemical Society, 2021, 143, 126-131.	6.6	14
20	Theoretical Study of Shallow Distance Dependence of Proton-Coupled Electron Transfer in Oligoproline Peptides. Journal of the American Chemical Society, 2020, 142, 13795-13804.	6.6	5
21	Intramolecular Electrostatic Effects on O₂, CO₂, and Acetate Binding to a Cationic Iron Porphyrin. Inorganic Chemistry, 2020, 59, 17402-17414.	1.9	20
22	Characterization of the non-covalent docking motif in the isolated reactant complex of a double proton-coupled electron transfer reaction with cryogenic ion spectroscopy. Journal of Chemical Physics, 2020, 152, 234309.	1.2	5
23	Two-Electronâ€"Two-Proton Transfer from Colloidal ZnO and TiO₂ Nanoparticles to Molecular Substrates. Journal of Physical Chemistry Letters, 2020, 11, 7687-7691.	2.1	20
24	Base-Directed Photoredox Activation of Câ€"H Bonds by PCET. Journal of Organic Chemistry, 2020, 85, 7175-7180.	1.7	12
25	Determining Proton-Coupled Standard Potentials and Xâ€"H Bond Dissociation Free Energies in Nonaqueous Solvents Using Open-Circuit Potential Measurements. Journal of the American Chemical Society, 2020, 142, 10681-10691.	6.6	82
26	Shallow Distance Dependence for Proton-Coupled Tyrosine Oxidation in Oligoproline Peptides. Journal of the American Chemical Society, 2020, 142, 12106-12118.	6.6	10
27	Selectivity-Determining Steps in O₂ Reduction Catalyzed by Iron(tetramesitylporphyrin). Journal of the American Chemical Society, 2020, 142, 4108-4113.	6.6	41
28	Cooperation of cerium oxide nanoparticles and soluble molecular catalysts for alcohol oxidation. Inorganic Chemistry Frontiers, 2020, 7, 1386-1393.	3.0	12
29	Developing Scaling Relationships for Molecular Electrocatalysis through Studies of Fe-Porphyrin-Catalyzed O₂ Reduction. Accounts of Chemical Research, 2020, 53, 1056-1065.	7.6	65
30	Combining scaling relationships overcomes rate versus overpotential trade-offs in O ₂ molecular electrocatalysis. Science Advances, 2020, 6, eaaz3318.	4.7	46
31	Highly Diastereoselective Functionalization of Piperidines by Photoredox-Catalyzed Î±-Amino Câ€"H Arylation and Epimerization. Journal of the American Chemical Society, 2020, 142, 8194-8202.	6.6	52
32	Potential Economic Feasibility of Direct Electrochemical Nitrogen Reduction as a Route to Ammonia. ACS Sustainable Chemistry and Engineering, 2020, 8, 8938-8948.	3.2	75
33	Chemical Oxidation of a Coordinated PNP-Pincer Ligand Forms Unexpected Reâ€"Nitroxide Complexes with Reversal of Nitride Reactivity. Inorganic Chemistry, 2019, 58, 10791-10801.	1.9	19
34	Synthesis and Prior Misidentification of 4-<i>tert</i>-Butyl-2,6-dinitrobenzaldehyde. Journal of Organic Chemistry, 2019, 84, 12172-12176.	1.7	1
35	Hydrogen on Cobalt Phosphide. Journal of the American Chemical Society, 2019, 141, 15390-15402.	6.6	41
36	Electrochemically Determined Oâ€"H Bond Dissociation Free Energies of NiO Electrodes Predict Proton-Coupled Electron Transfer Reactivity. Journal of the American Chemical Society, 2019, 141, 14971-14975.	6.6	40

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37	Low Reorganization Energy for Electron Self-Exchange by a Formally Copper(III,II) Redox Couple. Inorganic Chemistry, 2019, 58, 14151-14158.	1.9	18
38	Sodium-coupled electron transfer reactivity of metalâ€“organic frameworks containing titanium clusters: the importance of cations in redox chemistry. Chemical Science, 2019, 10, 1322-1331.	3.7	20
39	Transition State Asymmetry in Câ€“H Bond Cleavage by Proton-Coupled Electron Transfer. Journal of the American Chemical Society, 2019, 141, 10777-10787.	6.6	47
40	Mechanism of Catalytic O₂ Reduction by Iron Tetraphenylporphyrin. Journal of the American Chemical Society, 2019, 141, 8315-8326.	6.6	99
41	Manifesto on the Thermochemistry of Nanoscale Redox Reactions for Energy Conversion. ACS Energy Letters, 2019, 4, 866-872.	8.8	20
42	Concerted proton-electron transfer reactions in the Marcus inverted region. Science, 2019, 364, 471-475.	6.0	104
43	Revealing the Relative Electronic Landscape of Colloidal ZnO and TiO₂ Nanoparticles via Equilibration Studies. Journal of Physical Chemistry C, 2019, 123, 10262-10271.	1.5	13
44	Dinitrogen Reduction to Ammonium at Rhenium Utilizing Light and Proton-Coupled Electron Transfer. Journal of the American Chemical Society, 2019, 141, 20198-20208.	6.6	62
45	Highly Active NiO Photocathodes for H₂O₂ Production Enabled via Outer-Sphere Electron Transfer. Journal of the American Chemical Society, 2018, 140, 4079-4084.	6.6	66
46	Oxygen Reduction by Homogeneous Molecular Catalysts and Electrocatalysts. Chemical Reviews, 2018, 118, 2340-2391.	23.0	483
47	Redox Reactivity of Colloidal Nanoceria and Use of Optical Spectra as an In Situ Monitor of Ce Oxidation States. Inorganic Chemistry, 2018, 57, 14401-14408.	1.9	18
48	Bulk-to-Surface Proton-Coupled Electron Transfer Reactivity of the Metalâ€“Organic Framework MIL-125. Journal of the American Chemical Society, 2018, 140, 16184-16189.	6.6	41
49	Effect of Nucleophilicity on the Kinetics of CO₂ Insertion into Pincer-Supported Nickel Complexes. Organometallics, 2018, 37, 3649-3653.	1.1	13
50	A Continuum of Proton-Coupled Electron Transfer Reactivity. Accounts of Chemical Research, 2018, 51, 2391-2399.	7.6	196
51	Activationless Multiple-Site Concerted Protonâ€“Electron Tunneling. Journal of the American Chemical Society, 2018, 140, 7449-7452.	6.6	24
52	Acceleration of CO₂ insertion into metal hydrides: ligand, Lewis acid, and solvent effects on reaction kinetics. Chemical Science, 2018, 9, 6629-6638.	3.7	53
53	A new strategy to efficiently cleave and form Câ€“H bonds using proton-coupled electron transfer. Science Advances, 2018, 4, eaat5776.	4.7	58
54	Cation Effects on the Reduction of Colloidal ZnO Nanocrystals. Journal of the American Chemical Society, 2018, 140, 8924-8933.	6.6	22

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55	Sterically directed nitronate complexes of 2,6-di-tert-butyl-4-nitrophenoxide with Cu(ii) and Zn(ii) and their H-atom transfer reactivity. Dalton Transactions, 2017, 46, 2551-2558.	1.6	1
56	Outer-Sphere 2â€‰eâ^' /2â€‰H+ Transfer Reactions of Ruthenium(II)-Amine and Ruthenium(IV)-Amido Complexes. Angewandte Chemie, 2017, 129, 3729-3732.	1.6	3
57	Outerâ€Sphere 2â€‰e^{â^'}/2â€‰H⁺ Transfer Reactions of Ruthenium(II)â€Amine and Ruthenium(IV)â€Amido Complexes. Angewandte Chemie - International Edition, 2017, 56, 3675-3678.	7.2	12
58	Slow Equilibration between Spectroscopically Distinct Trap States in Reduced TiO₂ Nanoparticles. Journal of the American Chemical Society, 2017, 139, 2868-2871.	6.6	30
59	Model of the MitoNEET [2Feâ^'2S] Cluster Shows Proton Coupled Electron Transfer. Journal of the American Chemical Society, 2017, 139, 701-707.	6.6	30
60	Molecular Cobalt Catalysts for O₂ Reduction: Low-Overpotential Production of H₂O₂ and Comparison with Iron-Based Catalysts. Journal of the American Chemical Society, 2017, 139, 16458-16461.	6.6	101
61	Theoretical Insights into Proton-Coupled Electron Transfer from a Photoreduced ZnO Nanocrystal to an Organic Radical. Nano Letters, 2017, 17, 5762-5767.	4.5	27
62	Stereodynamic Quinoneâ€"Hydroquinone Molecules That Enantiomerize at sp³-Carbon via Redox-Interconversion. Journal of the American Chemical Society, 2017, 139, 15239-15244.	6.6	26
63	SmI₂(H₂O)_{<i>n</i>} Reduction of Electron Rich Enamines by Proton-Coupled Electron Transfer. Journal of the American Chemical Society, 2017, 139, 10687-10692.	6.6	80
64	Identifying and Breaking Scaling Relations in Molecular Catalysis of Electrochemical Reactions. Journal of the American Chemical Society, 2017, 139, 11000-11003.	6.6	89
65	Separating Proton and Electron Transfer Effects in Three-Component Concerted Proton-Coupled Electron Transfer Reactions. Journal of the American Chemical Society, 2017, 139, 10312-10319.	6.6	65
66	Reactivity of the copper(<scp>iii</scp>)-hydroxide unit with phenols. Chemical Science, 2017, 8, 1075-1085.	3.7	60
67	Reactivity of Hydrogen on and in Nanostructured Molybdenum Nitride: Crotonaldehyde Hydrogenation. ACS Catalysis, 2016, 6, 5797-5806.	5.5	44
68	Synthesis, Radical Reactivity, and Thermochemistry of Monomeric Cu(II) Alkoxide Complexes Relevant to Cu/Radical Alcohol Oxidation Catalysis. Inorganic Chemistry, 2016, 55, 5467-5475.	1.9	20
69	Evaluating the Thermodynamics of Electrocatalytic N₂ Reduction in Acetonitrile. ACS Energy Letters, 2016, 1, 698-704.	8.8	115
70	(Hydro)peroxide ligands on colloidal cerium oxide nanoparticles. Chemical Communications, 2016, 52, 10281-10284.	2.2	29
71	Homogenous Electrocatalytic Oxygen Reduction Rates Correlate with Reaction Overpotential in Acidic Organic Solutions. ACS Central Science, 2016, 2, 850-856.	5.3	150
72	Electronic Structure of a Cu^{II}â€"Alkoxide Complex Modeling Intermediates in Copper-Catalyzed Alcohol Oxidations. Journal of the American Chemical Society, 2016, 138, 4132-4145.	6.6	12

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73	Proton-Controlled Reduction of ZnO Nanocrystals: Effects of Molecular Reductants, Cations, and Thermodynamic Limitations. Journal of the American Chemical Society, 2016, 138, 1377-1385.	6.6	47
74	Protonation and Protonâ€Coupled Electron Transfer at Sâ€Ligated [4Feâ€4S] Clusters. Chemistry - A European Journal, 2015, 21, 9256-9260.	1.7	17
75	A Flexible Photoactive Titanium Metalâ€"Organic Framework Based on a [Ti^{IV}₃(Î¼₃â€O)(O)₂(COO)₆] Cluster. Angewandte Chemie - International Edition, 2015, 54, 13912-13917.	7.2	103
76	Standard Reduction Potentials for Oxygen and Carbon Dioxide Couples in Acetonitrile and <i>N</i>,<i>N</i>-Dimethylformamide. Inorganic Chemistry, 2015, 54, 11883-11888.	1.9	189
77	Moving Protons and Electrons in Biomimetic Systems. Biochemistry, 2015, 54, 1863-1878.	1.2	88
78	Medium Effects Are as Important as Catalyst Design for Selectivity in Electrocatalytic Oxygen Reduction by Ironâ€"Porphyrin Complexes. Journal of the American Chemical Society, 2015, 137, 4296-4299.	6.6	117
79	Reaction Dynamics of Proton-Coupled Electron Transfer from Reduced ZnO Nanocrystals. ACS Nano, 2015, 9, 10258-10267.	7.3	24
80	Radical reactivity of the Fe(<scp>iii</scp>)/(<scp>ii</scp>) tetramesitylporphyrin couple: hydrogen atom transfer, oxyl radical dissociation, and catalytic disproportionation of a hydroxylamine. Chemical Science, 2014, 5, 372-380.	3.7	23
81	Do spin state and spin density affect hydrogen atom transfer reactivity?. Chemical Science, 2014, 5, 21-31.	3.7	134
82	Direct Comparison of Electrochemical and Spectrochemical Kinetics for Catalytic Oxygen Reduction. Journal of the American Chemical Society, 2014, 136, 12544-12547.	6.6	98
83	Fast Proton-Coupled Electron Transfer Observed for a High-Fidelity Structural and Functional [2Feâ€"2S] Rieske Model. Journal of the American Chemical Society, 2014, 136, 3946-3954.	6.6	45
84	Synthesis and Reactivity of Tripodal Complexes Containing Pendant Bases. Inorganic Chemistry, 2014, 53, 9242-9253.	1.9	16
85	Low Capping Group Surface Density on Zinc Oxide Nanocrystals. ACS Nano, 2014, 8, 9463-9470.	7.3	64
86	Controlling Carrier Densities in Photochemically Reduced Colloidal ZnO Nanocrystals: Size Dependence and Role of the Hole Quencher. Journal of the American Chemical Society, 2013, 135, 16569-16577.	6.6	117
87	Effect of Protons on the Redox Chemistry of Colloidal Zinc Oxide Nanocrystals. Journal of the American Chemical Society, 2013, 135, 8492-8495.	6.6	62
88	Long-Range Proton-Coupled Electron-Transfer Reactions of Bis(imidazole) Iron Tetraphenylporphyrins Linked to Benzoates. Journal of Physical Chemistry Letters, 2013, 4, 519-523.	2.1	43
89	Spin-forbidden hydrogen atom transfer reactions in a cobalt biimidazoline system. Chemical Science, 2012, 3, 230-243.	3.7	35
90	Effect of Basic Site Substituents on Concerted Protonâ€"Electron Transfer in Hydrogen-Bonded Pyridylâ€"Phenols. Journal of Physical Chemistry A, 2012, 116, 12249-12259.	1.1	38

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91	Photocharging ZnO Nanocrystals: Picosecond Hole Capture, Electron Accumulation, and Auger Recombination. Journal of Physical Chemistry C, 2012, 116, 20633-20642.	1.5	57
92	Multiple-Site Concerted Protonâ€“Electron Transfer Reactions of Hydrogen-Bonded Phenols Are Nonadiabatic and Well Described by Semiclassical Marcus Theory. Journal of the American Chemical Society, 2012, 134, 16635-16645.	6.6	82
93	Distant protonated pyridine groups in water-soluble iron porphyrin electrocatalysts promote selective oxygen reduction to water. Chemical Communications, 2012, 48, 11100.	2.2	104
94	Electrocatalytic Oxygen Reduction by Iron Tetra-arylporphyrins Bearing Pendant Proton Relays. Journal of the American Chemical Society, 2012, 134, 5444-5447.	6.6	215
95	Using combinations of oxidants and bases as PCET reactants: thermochemical and practical considerations. Energy and Environmental Science, 2012, 5, 7771.	15.6	97
96	Probing Quantum and Dynamic Effects in Concerted Protonâ€“Electron Transfer Reactions of Phenolâ€“Base Compounds. Journal of Physical Chemistry B, 2012, 116, 571-584.	1.2	34
97	Titanium and Zinc Oxide Nanoparticles Are Proton-Coupled Electron Transfer Agents. Science, 2012, 336, 1298-1301.	6.0	339
98	Proton-Coupled Electron Transfer Reactions at a Heme-Propionate in an Iron-Protoporphyrin-IX Model Compound. Journal of the American Chemical Society, 2011, 133, 8544-8551.	6.6	48
99	Electron Transfer Between Colloidal ZnO Nanocrystals. Journal of the American Chemical Society, 2011, 133, 4228-4231.	6.6	51
100	Simple Marcus-Theory-Type Model for Hydrogen-Atom Transfer/Proton-Coupled Electron Transfer. Journal of Physical Chemistry Letters, 2011, 2, 1481-1489.	2.1	87
101	Kinetic Effects of Increased Proton Transfer Distance on Proton-Coupled Oxidations of Phenol-Amines. Journal of the American Chemical Society, 2011, 133, 17341-17352.	6.6	83
102	Understanding Hydrogen Atom Transfer: From Bond Strengths to Marcus Theory. Accounts of Chemical Research, 2011, 44, 36-46.	7.6	696
103	Thermochemistry of Proton-Coupled Electron Transfer Reagents and its Implications. Chemical Reviews, 2010, 110, 6961-7001.	23.0	1,373
104	Predicting organic hydrogen atom transfer rate constants using the Marcus cross relation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5282-5287.	3.3	109
105	The Importance of Precursor and Successor Complex Formation in a Bimolecular Protonâ^'Electron Transfer Reaction. Inorganic Chemistry, 2010, 49, 3685-3687.	1.9	35
106	Trends in Ground-State Entropies for Transition Metal Based Hydrogen Atom Transfer Reactions. Journal of the American Chemical Society, 2009, 131, 4335-4345.	6.6	82
107	Nitroxyl Radical Plus Hydroxylamine Pseudo Self-Exchange Reactions: Tunneling in Hydrogen Atom Transfer. Journal of the American Chemical Society, 2009, 131, 11985-11997.	6.6	81
108	Slow Hydrogen Atom Transfer Reactions of Oxo- and Hydroxo-Vanadium Compounds: The Importance of Intrinsic Barriers. Journal of the American Chemical Society, 2009, 131, 4729-4743.	6.6	68

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109	Concerted Protonâ˘Electron Transfer in a Ruthenium Terpyridyl-Benzoate System with a Large Separation between the Redox and Basic Sites. Journal of the American Chemical Society, 2009, 131, 9874-9875.	6.6	75
110	Proton-Coupled Electron Transfer of Ruthenium(III)â˘Pterin Complexes: A Mechanistic Insight. Journal of the American Chemical Society, 2009, 131, 11615-11624.	6.6	64
111	Concerted Protonâ€"Electron Transfer in Pyridylphenols: The Importance of the Hydrogen Bond. Angewandte Chemie - International Edition, 2008, 47, 738-740.	7.2	99
112	Surprisingly Long-Lived Ascorbyl Radicals in Acetonitrile: Concerted Protonâ˘Electron Transfer Reactions and Thermochemistry. Journal of the American Chemical Society, 2008, 130, 7546-7547.	6.6	66
113	Hydrogen Atom Transfer Reactions of a Ruthenium Imidazole Complex: Hydrogen Tunneling and the Applicability of the Marcus Cross Relation. Journal of the American Chemical Society, 2008, 130, 14745-14754.	6.6	60
114	The first crystal structure of a monomeric phenoxyl radical: 2,4,6-tri-tert-butylphenoxyl radical. Chemical Communications, 2008, , 256-258.	2.2	135
115	Facile Concerted Protonâ˘Electron Transfers in a Ruthenium Terpyridine-4â€²-Carboxylate Complex with a Long Distance Between the Redox and Basic Sites. Journal of the American Chemical Society, 2008, 130, 7210-7211.	6.6	53
116	Reactivity of Low-Valent Iridium, Rhodium, and Platinum Complexes with Di- and Tetrasubstituted Hydrazines. Organometallics, 2008, 27, 2238-2245.	1.1	21
117	Hydrogen Atom Transfer Reactions of Ironâ˘Porphyrinâ˘Imidazole Complexes as Models for Histidine-Ligated Heme Reactivity. Journal of the American Chemical Society, 2008, 130, 2774-2776.	6.6	44
118	Probing concerted protonâ€"electron transfer in phenolâ€"imidazoles. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8185-8190.	3.3	120
119	Tungsten Chloro Phosphine Complexes. Inorganic Syntheses, 2007, , 326-332.	0.3	6
120	Nitrido and Oxo Complexes of Rhenium(V). Inorganic Syntheses, 2007, , 146-150.	0.3	10
121	Synthesis and Characterization of Ruthenium Bis(Î²-diketonato) Pyridine-Imidazole Complexes for Hydrogen Atom Transfer. Inorganic Chemistry, 2007, 46, 11190-11201.	1.9	78
122	Large Ground-State Entropy Changes for Hydrogen Atom Transfer Reactions of Iron Complexes. Journal of the American Chemical Society, 2007, 129, 5153-5166.	6.6	134
123	Concerted Protonâ˘Electron Transfer in the Oxidation of Hydrogen-Bonded Phenols. Journal of the American Chemical Society, 2006, 128, 6075-6088.	6.6	238
124	Models for Proton-coupled Electron Transfer in Photosystem II. Photosynthesis Research, 2006, 87, 3-20.	1.6	68
125	Oxidations of NADH Analogues by cis-[RuIV(bpy)2(py)(O)]2+ Occur by Hydrogen-Atom Transfer Rather than by Hydride Transfer. Inorganic Chemistry, 2005, 44, 2150-2158.	1.9	78
126	Cumene Oxidation bycis-[RuIV(bpy)2(py)(O)]2+, Revisited. Inorganic Chemistry, 2004, 43, 1587-1592.	1.9	71

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127	One-Electron Oxidation of a Hydrogen-Bonded Phenol Occurs by Concerted Proton-Coupled Electron Transfer. Journal of the American Chemical Society, 2004, 126, 12718-12719.	6.6	162
128	Thermodynamics and kinetics of proton-coupled electron transfer: stepwise vs. concerted pathways. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1655, 51-58.	0.5	186
129	PROTON-COUPLED ELECTRON TRANSFER: A Reaction Chemist's View. Annual Review of Physical Chemistry, 2004, 55, 363-390.	4.8	738
130	Non-Organometallic Mechanisms for Câ€"H Bond Oxidation: Hydrogen Atom versus Electron versus Hydride Transfer. ACS Symposium Series, 2004, , 356-369.	0.5	3
131	Oxidation of Câ^'H Bonds by [(bpy)2(py)RuIVO]2+Occurs by Hydrogen Atom Abstraction. Journal of the American Chemical Society, 2003, 125, 10351-10361.	6.6	183
132	Slow Hydrogen Atom Self-Exchange between Os(IV) Anilide and Os(III) Aniline Complexes:Â Relationships with Electron and Proton Transfer Self-Exchange. Journal of the American Chemical Society, 2003, 125, 12217-12229.	6.6	52
133	Hydrocarbon Oxidation by Bis-Î¼-oxo Manganese Dimers:Â Electron Transfer, Hydride Transfer, and Hydrogen Atom Transfer Mechanisms. Journal of the American Chemical Society, 2002, 124, 10112-10123.	6.6	118
134	Proton-Coupled Electron Transfer versus Hydrogen Atom Transfer in Benzyl/Toluene, Methoxyl/Methanol, and Phenoxyl/Phenol Self-Exchange Reactions. Journal of the American Chemical Society, 2002, 124, 11142-11147.	6.6	330
135	Osmium(iv) complexes TpOs(X)Cl2 and their Os(iii) counterparts: oxidizing compounds with an unusual resistance to ligand substitution. Dalton Transactions RSC, 2001, , 3489-3497.	2.3	11
136	Activation of an Anilido Ligand for Nucleophilic Aromatic Substitution by an Oxidizing Os(IV) Center. Journal of the American Chemical Society, 2001, 123, 5594-5595.	6.6	23
137	Application of the Marcus Cross Relation to Hydrogen Atom Transfer Reactions. Science, 2001, 294, 2524-2526.	6.0	176
138	Thermodynamic Influences on C-H Bond Oxidation. , 2000, , 1-43.		26
139	Tp* Rhenium(V) Oxoâ^'Halide, â^'Hydride, â^'Alkyl, â^'Phenyl, and â^'Alkoxide Complexes:Â Syntheses and Oxidations. Organometallics, 2000, 19, 2781-2790.	1.1	28
140	Intrinsic Barriers for Electron and Hydrogen Atom Transfer Reactions of Biomimetic Iron Complexes. Journal of the American Chemical Society, 2000, 122, 5486-5498.	6.6	136
141	Nitric Oxide Abstracts a Nitrogen Atom from an Osmium Nitrido Complex To Give Nitrous Oxide. Journal of the American Chemical Society, 2000, 122, 12391-12392.	6.6	54
142	Oxidation of Toluene by [(phen)2Mn(Î¼-O)2Mn(phen)2]4+via Initial Hydride Abstraction. Journal of the American Chemical Society, 1999, 121, 11894-11895.	6.6	39
143	Synthesis and Reactivity of Aryl- and Alkyl-Rhenium(V) Imidoâ^'Triflate Compounds:Â An Unusual Mechanism for Triflate Substitution. Organometallics, 1999, 18, 3715-3727.	1.1	22
144	Synthesis and Reactions of Rhenium(V) Oxoâ^'Hydride Complexes. Organometallics, 1998, 17, 2939-2941.	1.1	22

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145	Chalcogen Atom Transfer to a Metal Nitrido. The First Transition Metal Selenonitrosyl Complex. Journal of the American Chemical Society, 1998, 120, 6607-6608.	6.6	70
146	On the Mechanism of Câ˘'H Bond Activation in the Photochemical Arylation of Rhenium(V) Oxo Iodide Complexes. Organometallics, 1998, 17, 3364-3374.	1.1	30
147	Hydrogen Atom Abstraction by Metalâ˘'Oxo Complexes:â€‰ Understanding the Analogy with Organic Radical Reactions. Accounts of Chemical Research, 1998, 31, 441-450.	7.6	514
148	Hydroxide-, Amide-, and Sulfhydrylrhenium(I) Tris(alkyne) Complexes. Rearrangements to Rhenium(III) Bis(alkyne) Oxo and Nitrido Compounds1. Organometallics, 1997, 16, 5342-5353.	1.1	22
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