# JamesÂ M Mayer

## List of Publications by Year
in descending order

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| | | 20817 | 23533 |
|---|---|---|---|
| 158<br>papers | 13,245<br>citations | 60<br>h-index | 111<br>g-index |
| 176<br>all docs | 176<br>docs citations | 176<br>times ranked | 9862<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Free Energies of Proton-Coupled Electron Transfer Reagents and Their Applications. Chemical Reviews, 2022, 122, 1-49. | 47.7 | 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, , . | 3.2 | 3 |
| 3 | Facile conversion of ammonia to a nitride in a rhenium system that cleaves dinitrogen. Chemical Science, 2022, 13, 4010-4018. | 7.4 | 11 |
| 4 | Aqueous TiO<sub>2</sub> Nanoparticles React by Proton-Coupled Electron Transfer. Inorganic Chemistry, 2022, 61, 767-777. | 4.0 | 12 |
| 5 | Electrolyte Cation Effects on Interfacial Acidity and Electric Fields. Journal of Physical Chemistry C, 2022, 126, 8477-8488. | 3.1 | 11 |
| 6 | Bridge Sites of Au Surfaces Are Active for Electrocatalytic CO<sub>2</sub> Reduction. Journal of the American Chemical Society, 2022, 144, 8641-8648. | 13.7 | 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. | 11.2 | 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. | 7.4 | 7 |
| 9 | Multiple selectivity-determining mechanisms of H<sub>2</sub>O<sub>2</sub>formation in iron porphyrin-catalysed oxygen reduction. Chemical Communications, 2021, 57, 1202-1205. | 4.1 | 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. | 13.7 | 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. | 4.0 | 14 |
| 12 | Bimodal Evansâ€“Polanyi Relationships in Hydrogen Atom Transfer from C(sp<sup>3</sup>)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. | 13.7 | 39 |
| 13 | Oriented Electrostatic Effects on O<sub>2</sub> and CO<sub>2</sub> Reduction by a Polycationic Iron Porphyrin. Journal of the American Chemical Society, 2021, 143, 11423-11434. | 13.7 | 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. | 13.7 | 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. | 2.5 | 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. | 2.0 | 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. | 4.6 | 16 |
| 18 | Different Kinetic Reactivities of Electrons in Distinct TiO<sub>2</sub> Nanoparticle Trap States. Journal of Physical Chemistry C, 2021, 125, 680-690. | 3.1 | 3 |

| # | Article | IF | Citations |
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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. | 13.7 | 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. | 13.7 | 5 |
| 21 | Intramolecular Electrostatic Effects on O<sub>2</sub>, CO<sub>2</sub>, and Acetate Binding to a Cationic Iron Porphyrin. Inorganic Chemistry, 2020, 59, 17402-17414. | 4.0 | 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. | 3.0 | 5 |
| 23 | Two-Electronâ€“Two-Proton Transfer from Colloidal ZnO and TiO<sub>2</sub> Nanoparticles to Molecular Substrates. Journal of Physical Chemistry Letters, 2020, 11, 7687-7691. | 4.6 | 20 |
| 24 | Base-Directed Photoredox Activation of Câ€“H Bonds by PCET. Journal of Organic Chemistry, 2020, 85, 7175-7180. | 3.2 | 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. | 13.7 | 82 |
| 26 | Shallow Distance Dependence for Proton-Coupled Tyrosine Oxidation in Oligoproline Peptides. Journal of the American Chemical Society, 2020, 142, 12106-12118. | 13.7 | 10 |
| 27 | Selectivity-Determining Steps in O<sub>2</sub> Reduction Catalyzed by Iron(tetramesitylporphyrin). Journal of the American Chemical Society, 2020, 142, 4108-4113. | 13.7 | 41 |
| 28 | Cooperation of cerium oxide nanoparticles and soluble molecular catalysts for alcohol oxidation. Inorganic Chemistry Frontiers, 2020, 7, 1386-1393. | 6.0 | 12 |
| 29 | Developing Scaling Relationships for Molecular Electrocatalysis through Studies of Fe-Porphyrin-Catalyzed O<sub>2</sub> Reduction. Accounts of Chemical Research, 2020, 53, 1056-1065. | 15.6 | 65 |
| 30 | Combining scaling relationships overcomes rate versus overpotential trade-offs in O <sub>2</sub> molecular electrocatalysis. Science Advances, 2020, 6, eaaz3318. | 10.3 | 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. | 13.7 | 52 |
| 32 | Potential Economic Feasibility of Direct Electrochemical Nitrogen Reduction as a Route to Ammonia. ACS Sustainable Chemistry and Engineering, 2020, 8, 8938-8948. | 6.7 | 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. | 4.0 | 19 |
| 34 | Synthesis and Prior Misidentification of 4-<i>tert</i>-Butyl-2,6-dinitrobenzaldehyde. Journal of Organic Chemistry, 2019, 84, 12172-12176. | 3.2 | 1 |
| 35 | Hydrogen on Cobalt Phosphide. Journal of the American Chemical Society, 2019, 141, 15390-15402. | 13.7 | 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. | 13.7 | 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. | 4.0 | 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. | 7.4 | 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. | 13.7 | 47 |
| 40 | Mechanism of Catalytic O<sub>2</sub> Reduction by Iron Tetraphenylporphyrin. Journal of the American Chemical Society, 2019, 141, 8315-8326. | 13.7 | 99 |
| 41 | Manifesto on the Thermochemistry of Nanoscale Redox Reactions for Energy Conversion. ACS Energy Letters, 2019, 4, 866-872. | 17.4 | 20 |
| 42 | Concerted proton-electron transfer reactions in the Marcus inverted region. Science, 2019, 364, 471-475. | 12.6 | 104 |
| 43 | Revealing the Relative Electronic Landscape of Colloidal ZnO and TiO<sub>2</sub> Nanoparticles via Equilibration Studies. Journal of Physical Chemistry C, 2019, 123, 10262-10271. | 3.1 | 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. | 13.7 | 62 |
| 45 | Highly Active NiO Photocathodes for H<sub>2</sub>O<sub>2</sub> Production Enabled via Outer-Sphere Electron Transfer. Journal of the American Chemical Society, 2018, 140, 4079-4084. | 13.7 | 66 |
| 46 | Oxygen Reduction by Homogeneous Molecular Catalysts and Electrocatalysts. Chemical Reviews, 2018, 118, 2340-2391. | 47.7 | 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. | 4.0 | 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. | 13.7 | 41 |
| 49 | Effect of Nucleophilicity on the Kinetics of CO<sub>2</sub> Insertion into Pincer-Supported Nickel Complexes. Organometallics, 2018, 37, 3649-3653. | 2.3 | 13 |
| 50 | A Continuum of Proton-Coupled Electron Transfer Reactivity. Accounts of Chemical Research, 2018, 51, 2391-2399. | 15.6 | 196 |
| 51 | Activationless Multiple-Site Concerted Protonâ€“Electron Tunneling. Journal of the American Chemical Society, 2018, 140, 7449-7452. | 13.7 | 24 |
| 52 | Acceleration of CO<sub>2</sub> insertion into metal hydrides: ligand, Lewis acid, and solvent effects on reaction kinetics. Chemical Science, 2018, 9, 6629-6638. | 7.4 | 53 |
| 53 | A new strategy to efficiently cleave and form Câ€“H bonds using proton-coupled electron transfer. Science Advances, 2018, 4, eaat5776. | 10.3 | 58 |
| 54 | Cation Effects on the Reduction of Colloidal ZnO Nanocrystals. Journal of the American Chemical Society, 2018, 140, 8924-8933. | 13.7 | 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. | 3.3 | 1 |
| 56 | Outer-Sphere 2â€‰eâˆ’ /2â€‰H+ Transfer Reactions of Ruthenium(II)-Amine and Ruthenium(IV)-Amido Complexes. Angewandte Chemie, 2017, 129, 3729-3732. | 2.0 | 3 |
| 57 | Outerâ€Sphere 2â€‰e<sup>âˆ’</sup>/2â€‰H<sup>+</sup> Transfer Reactions of Ruthenium(II)â€Amine and Ruthenium(IV)â€Amido Complexes. Angewandte Chemie - International Edition, 2017, 56, 3675-3678. | 13.8 | 12 |
| 58 | Slow Equilibration between Spectroscopically Distinct Trap States in Reduced TiO<sub>2</sub> Nanoparticles. Journal of the American Chemical Society, 2017, 139, 2868-2871. | 13.7 | 30 |
| 59 | Model of the MitoNEET [2Feâˆ’2S] Cluster Shows Proton Coupled Electron Transfer. Journal of the American Chemical Society, 2017, 139, 701-707. | 13.7 | 30 |
| 60 | Molecular Cobalt Catalysts for O<sub>2</sub> Reduction: Low-Overpotential Production of H<sub>2</sub>O<sub>2</sub> and Comparison with Iron-Based Catalysts. Journal of the American Chemical Society, 2017, 139, 16458-16461. | 13.7 | 101 |
| 61 | Theoretical Insights into Proton-Coupled Electron Transfer from a Photoreduced ZnO Nanocrystal to an Organic Radical. Nano Letters, 2017, 17, 5762-5767. | 9.1 | 27 |
| 62 | Stereodynamic Quinoneâ€“Hydroquinone Molecules That Enantiomerize at sp<sup>3</sup>-Carbon via Redox-Interconversion. Journal of the American Chemical Society, 2017, 139, 15239-15244. | 13.7 | 26 |
| 63 | SmI<sub>2</sub>(H<sub>2</sub>O)<sub><i>n</i></sub> Reduction of Electron Rich Enamines by Proton-Coupled Electron Transfer. Journal of the American Chemical Society, 2017, 139, 10687-10692. | 13.7 | 80 |
| 64 | Identifying and Breaking Scaling Relations in Molecular Catalysis of Electrochemical Reactions. Journal of the American Chemical Society, 2017, 139, 11000-11003. | 13.7 | 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. | 13.7 | 65 |
| 66 | Reactivity of the copper(<scp>iii</scp>)-hydroxide unit with phenols. Chemical Science, 2017, 8, 1075-1085. | 7.4 | 60 |
| 67 | Reactivity of Hydrogen on and in Nanostructured Molybdenum Nitride: Crotonaldehyde Hydrogenation. ACS Catalysis, 2016, 6, 5797-5806. | 11.2 | 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. | 4.0 | 20 |
| 69 | Evaluating the Thermodynamics of Electrocatalytic N<sub>2</sub> Reduction in Acetonitrile. ACS Energy Letters, 2016, 1, 698-704. | 17.4 | 115 |
| 70 | (Hydro)peroxide ligands on colloidal cerium oxide nanoparticles. Chemical Communications, 2016, 52, 10281-10284. | 4.1 | 29 |
| 71 | Homogenous Electrocatalytic Oxygen Reduction Rates Correlate with Reaction Overpotential in Acidic Organic Solutions. ACS Central Science, 2016, 2, 850-856. | 11.3 | 150 |
| 72 | Electronic Structure of a Cu<sup>II</sup>â€“Alkoxide Complex Modeling Intermediates in Copper-Catalyzed Alcohol Oxidations. Journal of the American Chemical Society, 2016, 138, 4132-4145. | 13.7 | 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. | 13.7 | 47 |
| 74 | Protonation and Protonâ€Coupled Electron Transfer at Sâ€Ligated [4Feâ€4S] Clusters. Chemistry - A European Journal, 2015, 21, 9256-9260. | 3.3 | 17 |
| 75 | A Flexible Photoactive Titanium Metalâ€"Organic Framework Based on a [Ti<sup>IV</sup><sub>3</sub>(Î¼<sub>3</sub>â€O)(O)<sub>2</sub>(COO)<sub>6</sub>] Cluster. Angewandte Chemie - International Edition, 2015, 54, 13912-13917. | 13.8 | 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. | 4.0 | 189 |
| 77 | Moving Protons and Electrons in Biomimetic Systems. Biochemistry, 2015, 54, 1863-1878. | 2.5 | 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. | 13.7 | 117 |
| 79 | Reaction Dynamics of Proton-Coupled Electron Transfer from Reduced ZnO Nanocrystals. ACS Nano, 2015, 9, 10258-10267. | 14.6 | 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. | 7.4 | 23 |
| 81 | Do spin state and spin density affect hydrogen atom transfer reactivity?. Chemical Science, 2014, 5, 21-31. | 7.4 | 134 |
| 82 | Direct Comparison of Electrochemical and Spectrochemical Kinetics for Catalytic Oxygen Reduction. Journal of the American Chemical Society, 2014, 136, 12544-12547. | 13.7 | 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. | 13.7 | 45 |
| 84 | Synthesis and Reactivity of Tripodal Complexes Containing Pendant Bases. Inorganic Chemistry, 2014, 53, 9242-9253. | 4.0 | 16 |
| 85 | Low Capping Group Surface Density on Zinc Oxide Nanocrystals. ACS Nano, 2014, 8, 9463-9470. | 14.6 | 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. | 13.7 | 117 |
| 87 | Effect of Protons on the Redox Chemistry of Colloidal Zinc Oxide Nanocrystals. Journal of the American Chemical Society, 2013, 135, 8492-8495. | 13.7 | 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. | 4.6 | 43 |
| 89 | Spin-forbidden hydrogen atom transfer reactions in a cobalt biimidazoline system. Chemical Science, 2012, 3, 230-243. | 7.4 | 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. | 2.5 | 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. | 3.1 | 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. | 13.7 | 82 |
| 93 | Distant protonated pyridine groups in water-soluble iron porphyrin electrocatalysts promote selective oxygen reduction to water. Chemical Communications, 2012, 48, 11100. | 4.1 | 104 |
| 94 | Electrocatalytic Oxygen Reduction by Iron Tetra-arylporphyrins Bearing Pendant Proton Relays. Journal of the American Chemical Society, 2012, 134, 5444-5447. | 13.7 | 215 |
| 95 | Using combinations of oxidants and bases as PCET reactants: thermochemical and practical considerations. Energy and Environmental Science, 2012, 5, 7771. | 30.8 | 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. | 2.6 | 34 |
| 97 | Titanium and Zinc Oxide Nanoparticles Are Proton-Coupled Electron Transfer Agents. Science, 2012, 336, 1298-1301. | 12.6 | 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. | 13.7 | 48 |
| 99 | Electron Transfer Between Colloidal ZnO Nanocrystals. Journal of the American Chemical Society, 2011, 133, 4228-4231. | 13.7 | 51 |
| 100 | Simple Marcus-Theory-Type Model for Hydrogen-Atom Transfer/Proton-Coupled Electron Transfer. Journal of Physical Chemistry Letters, 2011, 2, 1481-1489. | 4.6 | 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. | 13.7 | 83 |
| 102 | Understanding Hydrogen Atom Transfer: From Bond Strengths to Marcus Theory. Accounts of Chemical Research, 2011, 44, 36-46. | 15.6 | 696 |
| 103 | Thermochemistry of Proton-Coupled Electron Transfer Reagents and its Implications. Chemical Reviews, 2010, 110, 6961-7001. | 47.7 | 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. | 7.1 | 109 |
| 105 | The Importance of Precursor and Successor Complex Formation in a Bimolecular Protonâ^'Electron Transfer Reaction. Inorganic Chemistry, 2010, 49, 3685-3687. | 4.0 | 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. | 13.7 | 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. | 13.7 | 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. | 13.7 | 68 |

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| 109 | Concerted Protonâˆ’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. | 13.7 | 75 |
| 110 | Proton-Coupled Electron Transfer of Ruthenium(III)âˆ’Pterin Complexes: A Mechanistic Insight. Journal of the American Chemical Society, 2009, 131, 11615-11624. | 13.7 | 64 |
| 111 | Concerted Protonâ€“Electron Transfer in Pyridylphenols: The Importance of the Hydrogen Bond. Angewandte Chemie - International Edition, 2008, 47, 738-740. | 13.8 | 99 |
| 112 | Surprisingly Long-Lived Ascorbyl Radicals in Acetonitrile: Concerted Protonâˆ’Electron Transfer Reactions and Thermochemistry. Journal of the American Chemical Society, 2008, 130, 7546-7547. | 13.7 | 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. | 13.7 | 60 |
| 114 | The first crystal structure of a monomeric phenoxyl radical: 2,4,6-tri-tert-butylphenoxyl radical. Chemical Communications, 2008, , 256-258. | 4.1 | 135 |
| 115 | Facile Concerted Protonâˆ’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. | 13.7 | 53 |
| 116 | Reactivity of Low-Valent Iridium, Rhodium, and Platinum Complexes with Di- and Tetrasubstituted Hydrazines. Organometallics, 2008, 27, 2238-2245. | 2.3 | 21 |
| 117 | Hydrogen Atom Transfer Reactions of Ironâˆ’Porphyrinâˆ’Imidazole Complexes as Models for Histidine-Ligated Heme Reactivity. Journal of the American Chemical Society, 2008, 130, 2774-2776. | 13.7 | 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. | 7.1 | 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. | 4.0 | 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. | 13.7 | 134 |
| 123 | Concerted Protonâˆ’Electron Transfer in the Oxidation of Hydrogen-Bonded Phenols. Journal of the American Chemical Society, 2006, 128, 6075-6088. | 13.7 | 238 |
| 124 | Models for Proton-coupled Electron Transfer in Photosystem II. Photosynthesis Research, 2006, 87, 3-20. | 2.9 | 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. | 4.0 | 78 |
| 126 | Cumene Oxidation bycis-[RuIV(bpy)2(py)(O)]2+, Revisited. Inorganic Chemistry, 2004, 43, 1587-1592. | 4.0 | 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. | 13.7 | 162 |
| 128 | Thermodynamics and kinetics of proton-coupled electron transfer: stepwise vs. concerted pathways. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1655, 51-58. | 1.0 | 186 |
| 129 | PROTON-COUPLED ELECTRON TRANSFER: A Reaction Chemist's View. Annual Review of Physical Chemistry, 2004, 55, 363-390. | 10.8 | 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 Câˆ’H Bonds by [(bpy)2(py)RuIVO]2+Occurs by Hydrogen Atom Abstraction. Journal of the American Chemical Society, 2003, 125, 10351-10361. | 13.7 | 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. | 13.7 | 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. | 13.7 | 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. | 13.7 | 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. | 13.7 | 23 |
| 137 | Application of the Marcus Cross Relation to Hydrogen Atom Transfer Reactions. Science, 2001, 294, 2524-2526. | 12.6 | 176 |
| 138 | Thermodynamic Influences on <font>C</font>-<font>H</font> Bond Oxidation. , 2000, , 1-43. |  | 26 |
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