

Sharon Hammes-Schiffer

List of Publications by Citations

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260
papers

14,425
citations

61
h-index

111
g-index

403
ext. papers

16,177
ext. citations

10.2
avg. IF

7.39
L-index

#	Paper	IF	Citations
260	A perspective on enzyme catalysis. <i>Science</i> , 2003 , 301, 1196-202	33.3	977
259	Theory of coupled electron and proton transfer reactions. <i>Chemical Reviews</i> , 2010 , 110, 6939-60	68.1	565
258	Relating protein motion to catalysis. <i>Annual Review of Biochemistry</i> , 2006 , 75, 519-41	29.1	510
257	Network of coupled promoting motions in enzyme catalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 2794-9	11.5	409
256	Theoretical perspectives on proton-coupled electron transfer reactions. <i>Accounts of Chemical Research</i> , 2001 , 34, 273-81	24.3	377
255	Hydrogenase Enzymes and Their Synthetic Models: The Role of Metal Hydrides. <i>Chemical Reviews</i> , 2016 , 116, 8693-749	68.1	366
254	Proton-coupled electron transfer in solution, proteins, and electrochemistry. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 14108-23	3.4	298
253	Theory of proton-coupled electron transfer in energy conversion processes. <i>Accounts of Chemical Research</i> , 2009 , 42, 1881-9	24.3	296
252	Proton-Coupled Electron Transfer: Moving Together and Charging Forward. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8860-71	16.4	264
251	Free-energy landscape of enzyme catalysis. <i>Biochemistry</i> , 2008 , 47, 3317-21	3.2	218
250	Multiconfigurational nuclear-electronic orbital approach: Incorporation of nuclear quantum effects in electronic structure calculations. <i>Journal of Chemical Physics</i> , 2002 , 117, 4106-4118	3.9	217
249	Hydrogen tunneling and protein motion in enzyme reactions. <i>Accounts of Chemical Research</i> , 2006 , 39, 93-100	24.3	204
248	Proton-coupled electron transfer in soybean lipoxygenase. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5763-75	16.4	195
247	Flexibility, diversity, and cooperativity: pillars of enzyme catalysis. <i>Biochemistry</i> , 2011 , 50, 10422-30	3.2	190
246	Theoretical analysis of mechanistic pathways for hydrogen evolution catalyzed by cobaloximes. <i>Inorganic Chemistry</i> , 2011 , 50, 11252-62	5.1	183
245	Derivation of rate expressions for nonadiabatic proton-coupled electron transfer reactions in solution. <i>Journal of Chemical Physics</i> , 2000 , 113, 2385-2396	3.9	172
244	Hydrogen tunneling in enzymes and biomimetic models. <i>Chemical Reviews</i> , 2014 , 114, 3466-94	68.1	167

243	Computational Studies of the Mechanism for Proton and Hydride Transfer in Liver Alcohol Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2000 , 122, 4803-4812	16.4	154
242	Improvement of the Internal Consistency in Trajectory Surface Hopping. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 9399-9407	2.8	154
241	Proton-coupled electron transfer in soybean lipoxygenase: dynamical behavior and temperature dependence of kinetic isotope effects. <i>Journal of the American Chemical Society</i> , 2007 , 129, 187-96	16.4	145
240	Impact of enzyme motion on activity. <i>Biochemistry</i> , 2002 , 41, 13335-43	3.2	143
239	Proton-coupled electron transfer in molecular electrocatalysis: theoretical methods and design principles. <i>Inorganic Chemistry</i> , 2014 , 53, 6427-43	5.1	137
238	Proton-coupled electron transfer: classification scheme and guide to theoretical methods. <i>Energy and Environmental Science</i> , 2012 , 5, 7696	35.4	125
237	Quinone 1 e and 2 e/2 H Reduction Potentials: Identification and Analysis of Deviations from Systematic Scaling Relationships. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15903-15910	16.4	124
236	Proton-coupled electron transfer versus hydrogen atom transfer: generation of charge-localized diabatic states. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 2367-77	2.8	123
235	Substituent effects on cobalt diglyoxime catalysts for hydrogen evolution. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19036-9	16.4	123
234	Multistate continuum theory for multiple charge transfer reactions in solution. <i>Journal of Chemical Physics</i> , 1999 , 111, 4672-4687	3.9	123
233	Calculation of vibronic couplings for phenoxyl/phenol and benzyl/toluene self-exchange reactions: implications for proton-coupled electron transfer mechanisms. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16655-63	16.4	121
232	Characterization of NiFe oxyhydroxide electrocatalysts by integrated electronic structure calculations and spectroelectrochemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3050-3055	11.5	119
231	Role of pendant proton relays and proton-coupled electron transfer on the hydrogen evolution reaction by nickel hangman porphyrins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15001-6	11.5	119
230	Comparison of surface hopping and mean field approaches for model proton transfer reactions. <i>Journal of Chemical Physics</i> , 1999 , 110, 11166-11175	3.9	119
229	Hybrid approach for including electronic and nuclear quantum effects in molecular dynamics simulations of hydrogen transfer reactions in enzymes. <i>Journal of Chemical Physics</i> , 2001 , 114, 6925-6936	3.9	116
228	Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. <i>Journal of Chemical Physics</i> , 2021 , 155, 084801	3.9	115
227	Quantum and dynamical effects of proton donor-acceptor vibrational motion in nonadiabatic proton-coupled electron transfer reactions. <i>Journal of Chemical Physics</i> , 2005 , 122, 14505	3.9	109
226	Nickel phlorin intermediate formed by proton-coupled electron transfer in hydrogen evolution mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 485-92	11.5	101

225	Proton-coupled electron transfer in a model for tyrosine oxidation in photosystem II. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10429-36	16.4	97
224	Model Proton-Coupled Electron Transfer Reactions in Solution: Predictions of Rates, Mechanisms, and Kinetic Isotope Effects. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 9370-9384	2.8	96
223	Comparison of hydride, hydrogen atom, and proton-coupled electron transfer reactions. <i>ChemPhysChem</i> , 2002 , 3, 33-42	3.2	95
222	Analysis of kinetic isotope effects for proton-coupled electron transfer reactions. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 2117-26	2.8	89
221	Fourier grid Hamiltonian multiconfigurational self-consistent-field: A method to calculate multidimensional hydrogen vibrational wavefunctions. <i>Journal of Chemical Physics</i> , 2000 , 113, 5214	3.9	88
220	Explicit dynamical electron-proton correlation in the nuclear-electronic orbital framework. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 9983-7	2.8	86
219	Co(salophen)-Catalyzed Aerobic Oxidation of p-Hydroquinone: Mechanism and Implications for Aerobic Oxidation Catalysis. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4186-93	16.4	85
218	Development of electron-proton density functionals for multicomponent density functional theory. <i>Physical Review Letters</i> , 2008 , 101, 153001	7.4	79
217	Theoretical Studies of Proton-Coupled Electron Transfer: Models and Concepts Relevant to Bioenergetics. <i>Coordination Chemistry Reviews</i> , 2008 , 252, 384-394	23.2	78
216	Theoretical Analysis of Cobalt Hangman Porphyrins: Ligand Dearomatization and Mechanistic Implications for Hydrogen Evolution. <i>ACS Catalysis</i> , 2014 , 4, 4516-4526	13.1	76
215	Effects of ligand modification and protonation on metal oxime hydrogen evolution electrocatalysts. <i>Inorganic Chemistry</i> , 2013 , 52, 6994-9	5.1	76
214	Mixed Quantum/Classical Dynamics of Hydrogen Transfer Reactions. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 10443-10454	2.8	76
213	Nonadiabatic dynamics for processes involving multiple avoided curve crossings: Double proton transfer and proton-coupled electron transfer reactions. <i>Journal of Chemical Physics</i> , 1997 , 107, 8933-8939	3.9	70
212	Proton-coupled electron transfer reactions in solution: Molecular dynamics with quantum transitions for model systems. <i>Journal of Chemical Physics</i> , 1997 , 106, 8442-8454	3.9	70
211	Theoretical study of electron, proton, and proton-coupled electron transfer in iron bi-imidazole complexes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 3723-33	16.4	70
210	Probing the electrostatics of active site microenvironments along the catalytic cycle for Escherichia coli dihydrofolate reductase. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10349-60	16.4	69
209	Solvation and Hydrogen-Bonding Effects on Proton Wires. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 2891-2898	2.8	69
208	Concerted One-Electron Two-Proton Transfer Processes in Models Inspired by the Tyr-His Couple of Photosystem II. <i>ACS Central Science</i> , 2017 , 3, 372-380	16.8	67

207	Catalytic efficiency of enzymes: a theoretical analysis. <i>Biochemistry</i> , 2013 , 52, 2012-20	3.2	67
206	Extremely elevated room-temperature kinetic isotope effects quantify the critical role of barrier width in enzymatic C-H activation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8157-60	16.4	66
205	Insights into proton-coupled electron transfer mechanisms of electrocatalytic H ₂ oxidation and production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15663-8	11.5	66
204	Inclusion of explicit electron-proton correlation in the nuclear-electronic orbital approach using Gaussian-type geminal functions. <i>Journal of Chemical Physics</i> , 2008 , 129, 014101	3.9	66
203	Molecular dynamics with quantum transitions for proton transfer: Quantum treatment of hydrogen and donor-acceptor motions. <i>Journal of Chemical Physics</i> , 2003 , 119, 4389-4398	3.9	64
202	Concerted proton-electron transfer reactions in the Marcus inverted region. <i>Science</i> , 2019 , 364, 471-475	33.3	63
201	Quantum-classical simulation methods for hydrogen transfer in enzymes: a case study of dihydrofolate reductase. <i>Current Opinion in Structural Biology</i> , 2004 , 14, 192-201	8.1	63
200	Experimental and Computational Mechanistic Studies Guiding the Rational Design of Molecular Electrocatalysts for Production and Oxidation of Hydrogen. <i>Inorganic Chemistry</i> , 2016 , 55, 445-60	5.1	61
199	Multicomponent Density Functional Theory: Impact of Nuclear Quantum Effects on Proton Affinities and Geometries. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3488-3493	6.4	60
198	Investigation of isotope effects with the nuclear-electronic orbital approach. <i>Journal of Chemical Physics</i> , 2005 , 123, 64104	3.9	60
197	Theoretical studies of proton-coupled electron transfer reactions. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004 , 1655, 29-36	4.6	60
196	Density functional theory treatment of electron correlation in the nuclear-electronic orbital approach. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 4522-6	2.8	59
195	Alternative formulation of many-body perturbation theory for electron-proton correlation. <i>Chemical Physics Letters</i> , 2005 , 404, 394-399	2.5	58
194	Quantum mechanical/molecular mechanical free energy simulations of the self-cleavage reaction in the hepatitis delta virus ribozyme. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1483-96	16.4	57
193	Theoretical Formulation of Nonadiabatic Electrochemical Proton-Coupled Electron Transfer at Metal-Solution Interfaces. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12386-12397	3.8	57
192	A conundrum for density functional theory. <i>Science</i> , 2017 , 355, 28-29	33.3	56
191	Role of solvent dynamics in ultrafast photoinduced proton-coupled electron transfer reactions in solution. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 12319-32	3.4	55
190	Buffer-assisted proton-coupled electron transfer in a model rhenium-tyrosine complex. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11146-52	16.4	55

189	Electron-proton correlation for hydrogen tunneling systems. <i>Physical Review Letters</i> , 2004 , 92, 103002	7.4	55
188	Development of a practical multicomponent density functional for electron-proton correlation to produce accurate proton densities. <i>Journal of Chemical Physics</i> , 2017 , 147, 114113	3.9	53
187	Current Theoretical Challenges in Proton-Coupled Electron Transfer: Electron-Proton Nonadiabaticity, Proton Relays, and Ultrafast Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1410-1416	6.4	53
186	Is the Accuracy of Density Functional Theory for Atomization Energies and Densities in Bonding Regions Correlated?. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2076-2081	6.4	51
185	Catalysts by Design: The Power of Theory. <i>Accounts of Chemical Research</i> , 2017 , 50, 561-566	24.3	51
184	Theoretical analysis of proton relays in electrochemical proton-coupled electron transfer. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8282-92	16.4	50
183	Combining Electronic Structure Methods with the Calculation of Hydrogen Vibrational Wavefunctions: Application to Hydride Transfer in Liver Alcohol Dehydrogenase. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8884-8894	3.4	50
182	Theoretical Analysis of the Sequential Proton-Coupled Electron Transfer Mechanisms for H ₂ Oxidation and Production Pathways Catalyzed by Nickel Molecular Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 3171-3180	3.8	49
181	Mechanism of H ₂ Production by Models for the [NiFe]-Hydrogenases: Role of Reduced Hydrides. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9234-45	16.4	48
180	Role of the active site guanine in the glmS ribozyme self-cleavage mechanism: quantum mechanical/molecular mechanical free energy simulations. <i>Journal of the American Chemical Society</i> , 2015 , 137, 784-98	16.4	48
179	Vibrational analysis for the nuclear-electronic orbital method. <i>Journal of Chemical Physics</i> , 2003 , 118, 9489-9496	3.9	47
178	Calculation of vibrational shifts of nitrile probes in the active site of ketosteroid isomerase upon ligand binding. <i>Journal of the American Chemical Society</i> , 2013 , 135, 717-25	16.4	46
177	Impact of nuclear quantum effects on the molecular structure of bialides and the hydrogen fluoride dimer. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 10410-7	2.8	45
176	Escherichia coli dihydrofolate reductase catalyzed proton and hydride transfers: temporal order and the roles of Asp27 and Tyr100. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18231-6	11.5	44
175	pH-dependent reduction potentials and proton-coupled electron transfer mechanisms in hydrogen-producing nickel molecular electrocatalysts. <i>Inorganic Chemistry</i> , 2013 , 52, 3643-52	5.1	44
174	Nuclear-electronic orbital nonorthogonal configuration interaction approach. <i>Journal of Chemical Physics</i> , 2005 , 123, 134108	3.9	44
173	Unraveling Two Pathways for Electrochemical Alcohol and Aldehyde Oxidation on NiOOH. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21538-21547	16.4	43
172	Proton transport along water chains in an electric field. <i>Journal of Chemical Physics</i> , 1998 , 108, 6799-6803	3.9	43

171	Multicomponent Quantum Chemistry: Integrating Electronic and Nuclear Quantum Effects via the Nuclear-Electronic Orbital Method. <i>Chemical Reviews</i> , 2020 , 120, 4222-4253	68.1	42
170	Nonadiabatic dynamics of photoinduced proton-coupled electron transfer in a solvated phenol-amine complex. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 2758-68	3.4	41
169	Impact of distal mutation on hydrogen transfer interface and substrate conformation in soybean lipoxygenase. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 6653-60	3.4	41
168	Inverse thio effects in the hepatitis delta virus ribozyme reveal that the reaction pathway is controlled by metal ion charge density. <i>Biochemistry</i> , 2015 , 54, 2160-75	3.2	40
167	An analytical derivation of MC-SCF vibrational wave functions for the quantum dynamical simulation of multiple proton transfer reactions: Initial application to protonated water chains. <i>Journal of Chemical Physics</i> , 1997 , 107, 363-374	3.9	40
166	Excited state dynamics with nonadiabatic transitions for model photoinduced proton-coupled electron transfer reactions. <i>Journal of Chemical Physics</i> , 1997 , 107, 5727-5739	3.9	40
165	Theoretical Study of Photoinduced Proton-Coupled Electron Transfer through Asymmetric Salt Bridges. <i>Journal of the American Chemical Society</i> , 1999 , 121, 10598-10607	16.4	40
164	Multicomponent Coupled Cluster Singles and Doubles Theory within the Nuclear-Electronic Orbital Framework. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 338-347	6.4	38
163	Controlling Proton-Coupled Electron Transfer in Bioinspired Artificial Photosynthetic Relays. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15450-15460	16.4	38
162	The GlcN6P cofactor plays multiple catalytic roles in the glmS ribozyme. <i>Nature Chemical Biology</i> , 2017 , 13, 439-445	11.7	37
161	Application of the nuclear-electronic orbital method to hydrogen transfer systems: multiple centers and multiconfigurational wavefunctions. <i>Chemical Physics</i> , 2004 , 304, 227-236	2.3	37
160	Model system-bath Hamiltonian and nonadiabatic rate constants for proton-coupled electron transfer at electrode-solution interfaces. <i>Journal of Chemical Physics</i> , 2008 , 128, 244712	3.9	36
159	Multicomponent Time-Dependent Density Functional Theory: Proton and Electron Excitation Energies. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1765-1770	6.4	35
158	Probing Nonadiabaticity in the Proton-Coupled Electron Transfer Reaction Catalyzed by Soybean Lipoxygenase. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3274-3278	6.4	35
157	Isotope Effects on the Nonequilibrium Dynamics of Ultrafast Photoinduced Proton-Coupled Electron Transfer Reactions in Solution. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 36-40	6.4	35
156	Properties of the exact universal functional in multicomponent density functional theory. <i>Journal of Chemical Physics</i> , 2009 , 131, 124115	3.9	35
155	Tuning the Ultrafast Dynamics of Photoinduced Proton-Coupled Electron Transfer in Energy Conversion Processes. <i>ACS Energy Letters</i> , 2017 , 2, 512-519	20.1	34
154	Enhanced Rigidity within a Double Mutant of Soybean Lipoxygenase Provides Experimental Support for Vibronically Nonadiabatic Proton-Coupled Electron Transfer Models. <i>ACS Catalysis</i> , 2017 , 7, 3569-3574	13.1	34

153	Diabatization Schemes for Generating Charge-Localized Electron-Proton Vibronic States in Proton-Coupled Electron Transfer Systems. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 2831-414	6.4	34
152	Reaction Path Hamiltonian Analysis of Dynamical Solvent Effects for a Claisen Rearrangement and a Diels-Alder Reaction. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 8058-8066	2.8	34
151	C ENDOR Spectroscopy of Lipoxygenase-Substrate Complexes Reveals the Structural Basis for C-H Activation by Tunneling. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1984-1997	16.4	32
150	Communication: Density functional theory embedding with the orthogonality constrained basis set expansion procedure. <i>Journal of Chemical Physics</i> , 2017 , 146, 211101	3.9	32
149	Bronsted Acid Scaling Relationships Enable Control Over Product Selectivity from O Reduction with a Mononuclear Cobalt Porphyrin Catalyst. <i>ACS Central Science</i> , 2019 , 5, 1024-1034	16.8	32
148	Quantum treatment of protons with the reduced explicitly correlated Hartree-Fock approach. <i>Journal of Chemical Physics</i> , 2015 , 142, 214107	3.9	32
147	Electrochemical Solvent Reorganization Energies in the Framework of the Polarizable Continuum Model. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2091-102	6.4	32
146	Nonadiabatic dynamics of photoinduced proton-coupled electron transfer: comparison of explicit and implicit solvent simulations. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7695-708	3.4	32
145	Proton Quantization and Vibrational Relaxation in Nonadiabatic Dynamics of Photoinduced Proton-Coupled Electron Transfer in a Solvated Phenol-Amine Complex. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 2407-17	3.4	31
144	Kinetic and Mechanistic Characterization of Low-Overpotential, HO-Selective Reduction of O Catalyzed by NO-Ligated Cobalt Complexes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10890-10899	16.4	31
143	Derivation of an Electron-Proton Correlation Functional for Multicomponent Density Functional Theory within the Nuclear-Electronic Orbital Approach. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 2689-93	6.4	31
142	Modeling positrons in molecular electronic structure calculations with the nuclear-electronic orbital method. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 1346-51	2.8	31
141	Fundamental Insights into Proton-Coupled Electron Transfer in Soybean Lipoxygenase from Quantum Mechanical/Molecular Mechanical Free Energy Simulations. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3068-3076	16.4	30
140	Nonadiabatic dynamics of electron transfer in solution: explicit and implicit solvent treatments that include multiple relaxation time scales. <i>Journal of Chemical Physics</i> , 2014 , 140, 034113	3.9	30
139	Multicomponent density functional theory study of the interplay between electron-electron and electron-proton correlation. <i>Journal of Chemical Physics</i> , 2012 , 136, 174114	3.9	30
138	Dependence of Vibronic Coupling on Molecular Geometry and Environment: Bridging Hydrogen Atom Transfer and Electron-Proton Transfer. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13545-551	16.4	29
137	Theoretical Design of Molecular Electrocatalysts with Flexible Pendant Amines for Hydrogen Production and Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 542-6	6.4	29
136	Multidimensional treatment of stochastic solvent dynamics in photoinduced proton-coupled electron transfer processes: sequential, concerted, and complex branching mechanisms. <i>Journal of Chemical Physics</i> , 2011 , 135, 144115	3.9	29

135	Role of active site conformational changes in photocycle activation of the AppA BLUF photoreceptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1480-1485	11.5	28
134	Driving force dependence of rates for nonadiabatic proton and proton-coupled electron transfer: conditions for inverted region behavior. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 14545-8	3.4	28
133	Proton-coupled electron transfer reactions: analytical rate constants and case study of kinetic isotope effects in lipoyxygenase. <i>Faraday Discussions</i> , 2016 , 195, 171-189	3.6	27
132	Controlling Electrons and Protons through Theory: Molecular Electrocatalysts to Nanoparticles. <i>Accounts of Chemical Research</i> , 2018 , 51, 1975-1983	24.3	27
131	Reduced explicitly correlated Hartree-Fock approach within the nuclear-electronic orbital framework: theoretical formulation. <i>Journal of Chemical Physics</i> , 2013 , 139, 034102	3.9	27
130	Real-Time Time-Dependent Nuclear-Electronic Orbital Approach: Dynamics beyond the Born-Oppenheimer Approximation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4052-4058	6.4	27
129	Exploring the Role of the Third Active Site Metal Ion in DNA Polymerase β with QM/MM Free Energy Simulations. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8965-8969	16.4	26
128	Beyond the Born-Oppenheimer approximation with quantum Monte Carlo methods. <i>Physical Review A</i> , 2014 , 90,	2.6	26
127	Electrochemical proton-coupled electron transfer of an osmium aquo complex: theoretical analysis of asymmetric tafel plots and transfer coefficients. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1234-5	16.4	26
126	Hydride transfer catalysed by Escherichia coli and Bacillus subtilis dihydrofolate reductase: coupled motions and distal mutations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006 , 361, 1365-73	5.8	26
125	Enhancing the applicability of multicomponent time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2019 , 150, 201101	3.9	25
124	Role of Solvent Dynamics in Photoinduced Proton-Coupled Electron Transfer in a Phenol-Amine Complex in Solution. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3515-20	6.4	25
123	Inhomogeneity of Interfacial Electric Fields at Vibrational Probes on Electrode Surfaces. <i>ACS Central Science</i> , 2020 , 6, 304-311	16.8	25
122	Protonation of nickel-iron hydrogenase models proceeds after isomerization at nickel. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12385-95	16.4	25
121	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies.. <i>Chemical Reviews</i> , 2022 ,	68.1	25
120	Proton Discharge on a Gold Electrode from Triethylammonium in Acetonitrile: Theoretical Modeling of Potential-Dependent Kinetic Isotope Effects. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1084-1090	16.4	25
119	Theory of Proton Discharge on Metal Electrodes: Electronically Adiabatic Model. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 12335-12345	3.8	24
118	Electrochemical Electron Transfer and Proton-Coupled Electron Transfer: Effects of Double Layer and Ionic Environment on Solvent Reorganization Energies. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 2917-25	6.4	24

117	Molecular Dynamics Study of Twister Ribozyme: Role of Mg(2+) Ions and the Hydrogen-Bonding Network in the Active Site. <i>Biochemistry</i> , 2016 , 55, 3834-46	3.2	24
116	Computational investigation of [FeFe]-hydrogenase models: characterization of singly and doubly protonated intermediates and mechanistic insights. <i>Inorganic Chemistry</i> , 2014 , 53, 10301-11	5.1	24
115	Combining the nuclear-electronic orbital approach with vibronic coupling theory: calculation of the tunneling splitting for malonaldehyde. <i>Journal of Chemical Physics</i> , 2009 , 130, 054108	3.9	24
114	Analysis of the nuclear-electronic orbital method for model hydrogen transfer systems. <i>Journal of Chemical Physics</i> , 2005 , 123, 014303	3.9	24
113	Development of nuclear basis sets for multicomponent quantum chemistry methods. <i>Journal of Chemical Physics</i> , 2020 , 152, 244123	3.9	23
112	Dynamics of Photoinduced Proton-Coupled Electron Transfer at Molecule/Semiconductor Interfaces: A Reduced Density Matrix Approach. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 487-496	3.8	23
111	Alternative forms and transferability of electron-proton correlation functionals in nuclear-electronic orbital density functional theory. <i>Journal of Chemical Physics</i> , 2018 , 149, 044110	3.9	23
110	Interplay between Terminal and Bridging Diiron Hydrides in Neutral and Oxidized States. <i>Organometallics</i> , 2017 , 36, 2245-2253	3.8	22
109	Proton-Coupled Electron Transfer Drives Long-Range Proton Translocation in Bioinspired Systems. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14057-14061	16.4	22
108	When electrons and protons get excited. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 8531-2	11.5	22
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