Sharon Hammes-Schiffer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

260 61 14,425 111 h-index g-index citations papers 16,177 10.2 403 7.39 L-index ext. citations avg, IF ext. papers

#	Paper	IF	Citations
260	Electrocatalysis in Alkaline Media and Alkaline Membrane-Based Energy Technologies <i>Chemical Reviews</i> , 2022 ,	68.1	25
259	Cavity-Modulated Proton Transfer Reactions Journal of the American Chemical Society, 2022,	16.4	5
258	Theoretical Modeling of Electrochemical Proton-Coupled Electron Transfer <i>Chemical Reviews</i> , 2022 ,	68.1	8
257	Analytical gradients for nuclear-electronic orbital multistate density functional theory: Geometry optimizations and reaction paths <i>Journal of Chemical Physics</i> , 2022 , 156, 114115	3.9	0
256	Theoretical perspectives on non-Born-Oppenheimer effects in chemistry <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022 , 380, 20200377	3	3
255	Quantum Simulations of Vibrational Strong Coupling via Path Integrals <i>Journal of Physical Chemistry Letters</i> , 2022 , 3890-3895	6.4	2
254	Direct Dynamics with Nuclear-Electronic Orbital Density Functional Theory. <i>Accounts of Chemical Research</i> , 2021 , 54, 4131-4141	24.3	7
253	Investigation of the p of the Nucleophilic O2Rof the Hairpin Ribozyme. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 11869-11883	3.4	1
252	Simulation of the Chiral Sum Frequency Generation Response of Supramolecular Structures Requires Vibrational Couplings. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 12072-12081	3.4	4
251	Artificial Neural Networks as Propagators in Quantum Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10654-10662	6.4	3
250	Computing Proton-Coupled Redox Potentials of Fluorotyrosines in a Protein Environment. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 128-136	3.4	4
249	Glutamate Mediates Proton-Coupled Electron Transfer Between Tyrosines 730 and 731 in Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6054-6059	16.4	2
248	Excited State Intramolecular Proton Transfer with Nuclear-Electronic Orbital Ehrenfest Dynamics. Journal of Physical Chemistry Letters, 2021 , 12, 3497-3502	6.4	13
247	Multicomponent Unitary Coupled Cluster and Equation-of-Motion for Quantum Computation. Journal of Chemical Theory and Computation, 2021 , 17, 3252-3258	6.4	6
246	Mechanistic Insights about Electrochemical Proton-Coupled Electron Transfer Derived from a Vibrational Probe. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8381-8390	16.4	7
245	Electrocatalytic Oxidation of Alcohol with Cobalt Triphosphine Complexes. ACS Catalysis, 2021, 11, 63	84163189	9 3
244	Theoretical Description of the Primary Proton-Coupled Electron Transfer Reaction in the Cytochrome Complex. <i>Journal of the American Chemical Society</i> , 2021 , 143, 715-723	16.4	5

243	Multi PCET in symmetrically substituted benzimidazoles. <i>Chemical Science</i> , 2021 , 12, 12667-12675	9.4	2
242	Artificial Neural Networks as Mappings between Proton Potentials, Wave Functions, Densities, and Energy Levels. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2206-2212	6.4	7
241	Multicomponent Coupled Cluster Singles and Doubles with Density Fitting: Protonated Water Tetramers with Quantized Protons. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 1631-1637	6.4	7
240	Transition states, reaction paths, and thermochemistry using the nuclear-electronic orbital analytic Hessian. <i>Journal of Chemical Physics</i> , 2021 , 154, 054108	3.9	9
239	Nuclear-electronic orbital methods: Foundations and prospects. <i>Journal of Chemical Physics</i> , 2021 , 155, 030901	3.9	3
238	Analytical Gradients for Nuclear-Electronic Orbital Time-Dependent Density Functional Theory: Excited-State Geometry Optimizations and Adiabatic Excitation Energies. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 5110-5122	6.4	2
237	Hydrogen Evolution Mediated by Cobalt Diimine-Dioxime Complexes: Insights into the Role of the Ligand Acid/Base Functionalities <i>ChemElectroChem</i> , 2021 , 8, 2671-2679	4.3	3
236	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
235	Proton-Coupled Defects Impact O-H Bond Dissociation Free Energies on Metal Oxide Surfaces. Journal of Physical Chemistry Letters, 2021 , 12, 9761-9767	6.4	4
234	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
233	Proton-Coupled Electron Transfer from Tyrosine in the Interior of a Protein: Mechanisms and Primary Proton Acceptor. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11550-11559	16.4	6
232	Environmental Effects on Guanine-Thymine Mispair Tautomerization Explored with Quantum Mechanical/Molecular Mechanical Free Energy Simulations. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11183-11191	16.4	10
231	Confronting Racism in Chemistry Journals. ACS Applied Nano Materials, 2020, 3, 6131-6133	5.6	
230	Confronting Racism in Chemistry Journals. ACS Applied Polymer Materials, 2020, 2, 2496-2498	4.3	
229	Confronting Racism in Chemistry Journals. <i>Organometallics</i> , 2020 , 39, 2331-2333	3.8	
228	Proton-coupled electron transfer across benzimidazole bridges in bioinspired proton wires. <i>Chemical Science</i> , 2020 , 11, 3820-3828	9.4	17
227	Development of nuclear basis sets for multicomponent quantum chemistry methods. <i>Journal of Chemical Physics</i> , 2020 , 152, 244123	3.9	23
226	Update to Our Reader, Reviewer, and Author CommunitiesApril 2020. <i>Energy & Description</i> 2020, 34, 5107-5108	4.1	

225	Conformational Motions and Water Networks at the 畑nterface in Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13768-13778	16.4	11
224	Modeling voltammetry curves for proton coupled electron transfer: The importance of nuclear quantum effects. <i>Journal of Chemical Physics</i> , 2020 , 152, 234108	3.9	6
223	Examining the Mechanism of Phosphite Dehydrogenase with Quantum Mechanical/Molecular Mechanical Free Energy Simulations. <i>Biochemistry</i> , 2020 , 59, 943-954	3.2	1
222	Inhomogeneity of Interfacial Electric Fields at Vibrational Probes on Electrode Surfaces. <i>ACS Central Science</i> , 2020 , 6, 304-311	16.8	25
221	Multicomponent Orbital-Optimized Perturbation Theory Methods: Approaching Coupled Cluster Accuracy at Lower Cost. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1578-1583	6.4	18
220	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
219	Update to Our Reader, Reviewer, and Author Communities April 2020. Organometallics, 2020, 39, 1665-	-16,66	
218	Confronting Racism in Chemistry Journals. <i>Journal of Chemical Health and Safety</i> , 2020 , 27, 198-200	1.7	
217	Theory of Electrochemical Proton-Coupled Electron Transfer in Diabatic Vibronic Representation: Application to Proton Discharge on Metal Electrodes in Alkaline Solution. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27309-27322	3.8	10
216	Nuclear-electronic orbital Ehrenfest dynamics. <i>Journal of Chemical Physics</i> , 2020 , 153, 224111	3.9	13
215	Mirror-image antiparallel sheets organize water molecules into superstructures of opposite chirality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 329	90 2-3 2	909
214	Substituent Effects on Photochemistry of Anthracene-Phenol-Pyridine Triads Revealed by Multireference Calculations. <i>Journal of the American Chemical Society</i> , 2020 , 142, 487-494	16.4	4
213	Formation of an unusual glutamine tautomer in a blue light using flavin photocycle characterizes the light-adapted state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 26626-26632	11.5	17
212	Theoretical Study of Shallow Distance Dependence of Proton-Coupled Electron Transfer in Oligoproline Peptides. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13795-13804	16.4	1
211	Frequency and Time Domain Nuclear-Electronic Orbital Equation-of-Motion Coupled Cluster Methods: Combination Bands and Electronic-Protonic Double Excitations. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6435-6442	6.4	11
210	Nuclear-Electronic Orbital Multistate Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 10106-10113	6.4	9
209	Interfacial Field-Driven Proton-Coupled Electron Transfer at Graphite-Conjugated Organic Acids. Journal of the American Chemical Society, 2020 , 142, 20855-20864	16.4	15
208	Excited State Molecular Dynamics of Photoinduced Proton-Coupled Electron Transfer in Anthracene-Phenol-Pyridine Triads. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7109-7115	6.4	2

(2019-2020)

207	Advances and challenges for experiment and theory for multi-electron multi-proton transfer at electrified solid-liquid interfaces. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19401-19442	3.6	18	
206	Nonequilibrium Dynamics of Proton-Coupled Electron Transfer in Proton Wires: Concerted but Asynchronous Mechanisms. <i>ACS Central Science</i> , 2020 , 6, 1594-1601	16.8	12	
205	Role of Intact Hydrogen-Bond Networks in Multiproton-Coupled Electron Transfer. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21842-21851	16.4	12	
204	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	
203	Kinetics of Proton Discharge on Metal Electrodes: Effects of Vibrational Nonadiabaticity and Solvent Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5312-5317	6.4	17	
202	Substrate-to-Product Conversion Facilitates Active Site Loop Opening in Yeast Enolase: A Molecular Dynamics Study. <i>ACS Catalysis</i> , 2019 , 9, 8985-8990	13.1	5	
201	Strategies for Enhancing the Rate Constant of C-H Bond Cleavage by Concerted Proton-Coupled Electron Transfer. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15183-15189	16.4	13	
200	Multicomponent density functional theory: Including the density gradient in the electron-proton correlation functional for hydrogen and deuterium. <i>Journal of Chemical Physics</i> , 2019 , 151, 124102	3.9	19	
199	Theoretical analysis of the inverted region in photoinduced proton-coupled electron transfer. <i>Faraday Discussions</i> , 2019 , 216, 363-378	3.6	10	
198	Constructing Molecular EOrbital Active Spaces for Multireference Calculations of Conjugated Systems. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 1679-1689	6.4	20	
197	Brfisted 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	
196	Enhancing the applicability of multicomponent time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2019 , 150, 201101	3.9	25	
195	Theory of Proton Discharge on Metal Electrodes: Electronically Adiabatic Model. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 12335-12345	3.8	24	
194	Modeling Electron Transfer in Diffusive Multidimensional Electrochemical Systems. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13304-13317	3.8	4	
193	Multicomponent equation-of-motion coupled cluster singles and doubles: Theory and calculation of excitation energies for positronium hydride. <i>Journal of Chemical Physics</i> , 2019 , 150, 161102	3.9	21	
192	Concerted proton-electron transfer reactions in the Marcus inverted region. <i>Science</i> , 2019 , 364, 471-47	7533.3	63	
191	Proton-Coupled Electron Transfer Drives Long-Range Proton Translocation in Bioinspired Systems. Journal of the American Chemical Society, 2019 , 141, 14057-14061	16.4	22	
190	Multicomponent coupled cluster singles and doubles and Brueckner doubles methods: Proton densities and energies. <i>Journal of Chemical Physics</i> , 2019 , 151, 074104	3.9	17	

189	Diagonal Born-Oppenheimer Corrections within the Nuclear-Electronic Orbital Framework. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4639-4643	6.4	4	
188	Molecular Vibrational Frequencies with Multiple Quantum Protons within the Nuclear-Electronic Orbital Framework. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 6840-6849	6.4	8	
187	Emerging opportunities and future directions: general discussion. Faraday Discussions, 2019, 221, 564-5	58316	5	
186	Spectroscopic signatures of quantum effects: general discussion. <i>Faraday Discussions</i> , 2019 , 221, 322-3	49 .6	2	
185	Zero-point energy and tunnelling: general discussion. <i>Faraday Discussions</i> , 2019 , 221, 478-500	3.6	4	
184	Quantum effects in complex systems: summarizing remarks. <i>Faraday Discussions</i> , 2019 , 221, 582-588	3.6	8	
183	Molecular Vibrational Frequencies within the Nuclear-Electronic Orbital Framework. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1167-1172	6.4	17	
182	Early Photocycle of Slr1694 Blue-Light Using Flavin Photoreceptor Unraveled through Adiabatic Excited-State Quantum Mechanical/Molecular Mechanical Dynamics. <i>Journal of the American Chemical Society</i> , 2019 , 141, 20470-20479	16.4	16	
181	Electron-Coupled Double Proton Transfer in the Slr1694 BLUF Photoreceptor: A Multireference Electronic Structure Study. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 439-447	3.4	15	
180	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	
179	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	
178	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	
177	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	
176	Exploring the Role of the Third Active Site Metal Ion in DNA Polymerase Iwith QM/MM Free Energy Simulations. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8965-8969	16.4	26	
175	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	o-16 8 9	9 ³¹	
174	Controlling Electrons and Protons through Theory: Molecular Electrocatalysts to Nanoparticles. <i>Accounts of Chemical Research</i> , 2018 , 51, 1975-1983	24.3	27	
173	Propensity for Proton Relay and Electrostatic Impact of Protein Reorganization in Slr1694 BLUF Photoreceptor. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15241-15251	16.4	11	
172	Impact of Mutations on the Binding Pocket of Soybean Lipoxygenase: Implications for Proton-Coupled Electron Transfer. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6444-6449	6.4	7	

171	Controlling Proton-Coupled Electron Transfer in Bioinspired Artificial Photosynthetic Relays. Journal of the American Chemical Society, 2018 , 140, 15450-15460	16.4	38
170	Theoretical Study of C-H Bond Cleavage via Concerted Proton-Coupled Electron Transfer in Fluorenyl-Benzoates. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15641-15645	16.4	17
169	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
168	Stability conditions and local minima in multicomponent Hartree-Fock and density functional theory. <i>Journal of Chemical Physics</i> , 2018 , 149, 084105	3.9	6
167	A conundrum for density functional theory. <i>Science</i> , 2017 , 355, 28-29	33.3	56
166	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
165	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
164	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
163	Calculation of Positron Binding Energies and Electron-Positron Annihilation Rates for Atomic Systems with the Reduced Explicitly Correlated Hartree-Fock Method in the Nuclear-Electronic Orbital Framework. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 515-522	2.8	9
162	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
161	The GlcN6P cofactor plays multiple catalytic roles in the glmS ribozyme. <i>Nature Chemical Biology</i> , 2017 , 13, 439-445	11.7	37
160	Enhanced Rigidification 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
159	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
158	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
157	Interplay between Terminal and Bridging Diiron Hydrides in Neutral and Oxidized States. <i>Organometallics</i> , 2017 , 36, 2245-2253	3.8	22
156	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
155	Catalysts by Design: The Power of Theory. Accounts of Chemical Research, 2017, 50, 561-566	24.3	51
154	Effects of Active Site Mutations on Specificity of Nucleobase Binding in Human DNA Polymerase [] Journal of Physical Chemistry B, 2017 , 121, 3667-3675	3.4	5

153	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
152	Theoretical Insights into Proton-Coupled Electron Transfer from a Photoreduced ZnO Nanocrystal to an Organic Radical. <i>Nano Letters</i> , 2017 , 17, 5762-5767	11.5	21
151	Role of Proton Diffusion in the Nonexponential Kinetics of Proton-Coupled Electron Transfer from Photoreduced ZnO Nanocrystals. <i>ACS Nano</i> , 2017 , 11, 10295-10302	16.7	5
150	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
149	Computational Insights into Five- versus Six-Coordinate Iron Center in Ferrous Soybean Lipoxygenase. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3429-33	6.4	3
148	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
147	Proton-coupled electron transfer reactions: analytical rate constants and case study of kinetic isotope effects in lipoxygenase. <i>Faraday Discussions</i> , 2016 , 195, 171-189	3.6	27
146	Mechanism of H2 Production by Models for the [NiFe]-Hydrogenases: Role of Reduced Hydrides. Journal of the American Chemical Society, 2016 , 138, 9234-45	16.4	48
145	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
144	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
143	Hydrogenase Enzymes and Their Synthetic Models: The Role of Metal Hydrides. <i>Chemical Reviews</i> , 2016 , 116, 8693-749	68.1	366
142	Effect of Protonation upon Electronic Coupling in the Mixed Valence and Mixed Protonated Complex, [Ni(2,3-pyrazinedithiol)2]. <i>Inorganic Chemistry</i> , 2016 , 55, 1433-45	5.1	20
141	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
140	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
139	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
138	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
137	Computational Study of Fluorinated Diglyoxime-Iron Complexes: Tuning the Electrocatalytic Pathways for Hydrogen Evolution. <i>Inorganic Chemistry</i> , 2016 , 55, 2934-40	5.1	14
136	Multicomponent density functional theory embedding formulation. <i>Journal of Chemical Physics</i> , 2016 , 145, 044106	3.9	18

135	Assessing the Potential Effects of Active Site Mg Ions in the glmS Ribozyme-Cofactor Complex. Journal of Physical Chemistry Letters, 2016 , 7, 3984-3988	6.4	11
134	Proton-Coupled Electron Transfer: Moving Together and Charging Forward. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8860-71	16.4	264
133	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
132	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, 1354	5 ¹⁶ 5 ⁴	29
131	How large are nonadiabatic effects in atomic and diatomic systems?. <i>Journal of Chemical Physics</i> , 2015 , 143, 124308	3.9	13
130	Quantum treatment of protons with the reduced explicitly correlated Hartree-Fock approach. <i>Journal of Chemical Physics</i> , 2015 , 142, 214107	3.9	32
129	Nuclear-electronic orbital reduced explicitly correlated Hartree-Fock approach: Restricted basis sets and open-shell systems. <i>Journal of Chemical Physics</i> , 2015 , 142, 214108	3.9	21
128	Relative Binding Free Energies of Adenine and Guanine to Damaged and Undamaged DNA in Human DNA Polymerase Clues for Fidelity and Overall Efficiency. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13240-3	16.4	13
127	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
126	Nonadiabatic rate constants for proton transfer and proton-coupled electron transfer reactions in solution: Effects of quadratic term in the vibronic coupling expansion. <i>Journal of Chemical Physics</i> , 2015 , 143, 194101	3.9	19
125	Comparative Molecular Dynamics Studies of Human DNA Polymerase []Journal of Chemical Information and Modeling, 2015 , 55, 2672-81	6.1	9
124	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
123	Calculation of Electrochemical Reorganization Energies for Redox Molecules at Self-Assembled Monolayer Modified Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1-5	6.4	11
122	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
121	Hydrogen tunneling in enzymes and biomimetic models. <i>Chemical Reviews</i> , 2014 , 114, 3466-94	68.1	167
120	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
119	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
118	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

117	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
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	Proton-coupled electron transfer in molecular electrocatalysis: theoretical methods and design principles. <i>Inorganic Chemistry</i> , 2014 , 53, 6427-43	5.1	137
114	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
113	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
112	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
111	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
110	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
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