Sam Hay

List of Publications by Year
in descending order

127 papers	4,003 citations	126858 33 h-index	155592 55 g-index
136 all docs	136 docs citations	136 times ranked	3788 citing authors

#	Article	IF	Citations
1	Reductive dehalogenase structure suggests a mechanism for B12-dependent dehalogenation. Nature, 2015, 517, 513-516.	13.7	260
2	Good vibrations in enzyme-catalysed reactions. Nature Chemistry, 2012, 4, 161-168.	6.6	246
3	New cofactor supports Î±,Î²-unsaturated acid decarboxylation via 1,3-dipolar cycloaddition. Nature, 2015, 522, 497-501.	13.7	197
4	UbiX is a flavin prenyltransferase required for bacterial ubiquinone biosynthesis. Nature, 2015, 522, 502-506.	13.7	168
5	Promoting motions in enzyme catalysis probed by pressure studies of kinetic isotope effects. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 507-512.	3.3	98
6	Structural basis for enzymatic photocatalysis in chlorophyll biosynthesis. Nature, 2019, 574, 722-725.	13.7	88
7	Fast Protein Motions Are Coupled to Enzyme H-Transfer Reactions. Journal of the American Chemical Society, 2013, 135, 2512-2517.	6.6	83
8	Carboxylesterase converts Amplex red to resorufin: Implications for mitochondrial H2O2 release assays. Free Radical Biology and Medicine, 2016, 90, 173-183.	1.3	83
9	Evidence To Support the Hypothesis That Promoting Vibrations Enhance the Rate of an Enzyme Catalyzed H-Tunneling Reaction. Journal of the American Chemical Society, 2009, 131, 17072-17073.	6.6	79
10	Deep Tunneling Dominates the Biologically Important Hydride Transfer Reaction from NADH to FMN in Morphinone Reductase. Journal of the American Chemical Society, 2008, 130, 7092-7097.	6.6	75
11	Direct Analysis of Donorâ^'Acceptor Distance and Relationship to Isotope Effects and the Force Constant for Barrier Compression in Enzymatic H-Tunneling Reactions. Journal of the American Chemical Society, 2010, 132, 11329-11335.	6.6	74
12	Quantum Biology: An Update and Perspective. Quantum Reports, 2021, 3, 80-126.	0.6	74
13	Î±-Secondary Isotope Effects as Probes of â€œTunneling-Readyâ€• Configurations in Enzymatic H-Tunneling:Â Insight from Environmentally Coupled Tunneling Models. Journal of the American Chemical Society, 2006, 128, 14053-14058.	6.6	66
14	Nature of the Energy Landscape for Gated Electron Transfer in a Dynamic Redox Protein. Journal of the American Chemical Society, 2010, 132, 9738-9745.	6.6	63
15	Proton Tunneling in Aromatic Amine Dehydrogenase is Driven by a Short-Range Sub-Picosecond Promoting Vibration:Â Consistency of Simulation and Theory with Experiment. Journal of Physical Chemistry B, 2007, 111, 2631-2638.	1.2	62
16	Decoupled Associative and Dissociative Processes in Strong yet Highly Dynamic Hostâ€"Guest Complexes. Journal of the American Chemical Society, 2017, 139, 12985-12993.	6.6	56
17	Mutagenesis of Morphinone Reductase Induces Multiple Reactive Configurations and Identifies Potential Ambiguity in Kinetic Analysis of Enzyme Tunneling Mechanisms. Journal of the American Chemical Society, 2007, 129, 13949-13956.	6.6	55
18	Conformational and Thermodynamic Control of Electron Transfer in Neuronal Nitric Oxide Synthase. Biochemistry, 2007, 46, 5018-5029.	1.2	53

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19	Barrier Compression Enhances an Enzymatic Hydrogenâ€Transfer Reaction. Angewandte Chemie - International Edition, 2009, 48, 1452-1454.	7.2	52
20	Magnetic Field Effect Studies Indicate Reduced Geminate Recombination of the Radical Pair in Substrate-Bound Adenosylcobalamin-Dependent Ethanolamine Ammonia Lyase. Journal of the American Chemical Society, 2007, 129, 15718-15727.	6.6	51
21	Demonstration of Proton-coupled Electron Transfer in the Copper-containing Nitrite Reductases. Journal of Biological Chemistry, 2009, 284, 25973-25983.	1.6	50
22	Are the Catalytic Properties of Enzymes from Piezophilic Organisms Pressure Adapted?. ChemBioChem, 2009, 10, 2348-2353.	1.3	48
23	Structural Basis of Catalysis in the Bacterial Monoterpene Synthases Linalool Synthase and 1,8-Cineole Synthase. ACS Catalysis, 2017, 7, 6268-6282.	5.5	47
24	Protein engineering of cytochrome b562 for quinone binding and light-induced electron transfer. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17675-17680.	3.3	46
25	Barrier Compression and Its Contribution to Both Classical and Quantum Mechanical Aspects of Enzyme Catalysis. Biophysical Journal, 2010, 98, 121-128.	0.2	43
26	A â€˜Plug and Playâ€™ Platform for the Production of Diverse Monoterpene Hydrocarbon Scaffolds in <i>Escherichia coli</i>.. ChemistrySelect, 2016, 1, 1893-1896.	0.7	42
27	Interâ€flavin electron transfer in cytochrome P450 reductase â€“ effects of solvent and pH identify hidden complexity in mechanism. FEBS Journal, 2008, 275, 4540-4557.	2.2	39
28	Dual transcriptional-translational cascade permits cellular level tuneable expression control. Nucleic Acids Research, 2016, 44, e21-e21.	6.5	39
29	Ultrafast Infrared Spectral Fingerprints of Vitamin B₁₂ and Related Cobalamins. Journal of Physical Chemistry A, 2012, 116, 5586-5594.	1.1	38
30	Donorâ€“Acceptor Distance Sampling Enhances the Performance of â€œBetter than Natureâ€•Nicotinamide Coenzyme Biomimetics. Journal of the American Chemical Society, 2016, 138, 11089-11092.	6.6	38
31	Electrochemical and Structural Properties of a Protein System Designed To Generate Tyrosine Pourbaix Diagrams. Journal of the American Chemical Society, 2011, 133, 17786-17795.	6.6	37
32	DNA Binding Suppresses Human AIF-M2 Activity and Provides a Connection between Redox Chemistry, Reactive Oxygen Species, and Apoptosis. Journal of Biological Chemistry, 2007, 282, 30331-30340.	1.6	36
33	Incorporation of Hydrostatic Pressure into Models of Hydrogen Tunneling Highlights a Role for Pressure-Modulated Promoting Vibrations. Biochemistry, 2008, 47, 9880-9887.	1.2	36
34	Are Environmentally Coupled Enzymatic Hydrogen Tunneling Reactions Influenced by Changes in Solution Viscosity?. Angewandte Chemie - International Edition, 2008, 47, 537-540.	7.2	34
35	Epoxyqueuosine Reductase Structure Suggests a Mechanism for Cobalamin-dependent tRNA Modification. Journal of Biological Chemistry, 2015, 290, 27572-27581.	1.6	34
36	Engineering an efficient and enantioselective enzyme for the Moritaâ€“Baylisâ€“Hillman reaction. Nature Chemistry, 2022, 14, 313-320.	6.6	34

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37	Gating mechanisms for biological electron transfer: Integrating structure with biophysics reveals the nature of redox control in cytochrome P450 reductase and copperâ€dependent nitrite reductase. FEBS Letters, 2012, 586, 578-584.	1.3	31
38	Convergence of Theory and Experiment on the Role of Preorganization, Quantum Tunneling, and Enzyme Motions into Flavoenzyme-Catalyzed Hydride Transfer. ACS Catalysis, 2017, 7, 3190-3198.	5.5	31
39	Is There a Dynamic Protein Contribution to the Substrate Trigger in Coenzyme B₁₂â€Dependent Ethanolamine Ammonia Lyase?. Angewandte Chemie - International Edition, 2011, 50, 10843-10846.	7.2	30
40	Relating localized protein motions to the reaction coordinate in coenzymeÂ<scp>B</scp>₁₂â€dependent enzymes. FEBS Journal, 2013, 280, 2997-3008.	2.2	29
41	Enzymatic Câ€"H activation of aromatic compounds through CO2 fixation. Nature Chemical Biology, 2020, 16, 1255-1260.	3.9	29
42	Protein Motions Are Coupled to the Reaction Chemistry in Coenzyme B₁₂â€Dependent Ethanolamine Ammonia Lyase. Angewandte Chemie - International Edition, 2012, 51, 9306-9310.	7.2	28
43	Enzymatic control of cycloadduct conformation ensures reversible 1,3-dipolar cycloaddition in a prFMN-dependent decarboxylase. Nature Chemistry, 2019, 11, 1049-1057.	6.6	28
44	Moving a Phenol Hydroxyl Group from the Surface to the Interior of a Protein:â€‰ Effects on the Phenol Potential and pKA. Biochemistry, 2005, 44, 11891-11902.	1.2	27
45	Structural and mechanistic aspects of flavoproteins: probes of hydrogen tunnelling. FEBS Journal, 2009, 276, 3930-3941.	2.2	27
46	Pressure Effects on Enzyme-Catalyzed Quantum Tunneling Events Arise from Protein-Specific Structural and Dynamic Changes. Journal of the American Chemical Society, 2012, 134, 9749-9754.	6.6	27
47	Realâ€time analysis of conformational control in electron transfer reactions of human cytochrome P450 reductase with cytochrome <i>c</i>. FEBS Journal, 2015, 282, 4357-4375.	2.2	27
48	Untangling Heavy Protein and Cofactor Isotope Effects on Enzyme-Catalyzed Hydride Transfer. Journal of the American Chemical Society, 2016, 138, 13693-13699.	6.6	26
49	Energy Landscapes and Catalysis in Nitric-oxide Synthase. Journal of Biological Chemistry, 2014, 289, 11725-11738.	1.6	25
50	Rewiring the â€œPush-Pullâ€•Catalytic Machinery of a Heme Enzyme Using an Expanded Genetic Code. ACS Catalysis, 2020, 10, 2735-2746.	5.5	25
51	Conversion of theEscherichia coliCytochromeb562to an Archetype Cytochromeb:Â A Mutant with Bis-Histidine Ligation of Heme Ironâ€. Biochemistry, 2005, 44, 431-439.	1.2	24
52	Redox Characteristics of a de Novo Quinone Protein. Journal of Physical Chemistry B, 2007, 111, 3488-3495.	1.2	24
53	Bipartite recognition and conformational sampling mechanisms for hydride transfer from nicotinamide coenzyme to FMN in pentaerythritol tetranitrate reductase. FEBS Journal, 2009, 276, 4780-4789.	2.2	24
54	Non-covalent protein-based adhesives for transparent substratesâ€"bovine serum albumin vs. recombinant spider silk. Materials Today Bio, 2020, 7, 100068.	2.6	24

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55	Predicting new protein conformations from molecular dynamics simulation conformational landscapes and machine learning. Proteins: Structure, Function and Bioinformatics, 2021, 89, 915-921.	1.5	24
56	Ratiometric detection of enzyme turnover and flavin reduction using rare-earth upconverting phosphors. Dalton Transactions, 2014, 43, 5265-5268.	1.6	23
57	Towards the free energy landscape for catalysis in mammalian nitric oxide synthases. FEBS Journal, 2015, 282, 3016-3029.	2.2	23
58	Pressurized CO₂ as a carboxylating agent for the biocatalytic <i>ortho</i>-carboxylation of resorcinol. Green Chemistry, 2018, 20, 1754-1759.	4.6	23
59	Parallel Pathways and Freeâ€Energy Landscapes for Enzymatic Hydride Transfer Probed by Hydrostatic Pressure. ChemBioChem, 2009, 10, 1379-1384.	1.3	22
60	Photocatalysis as the â€˜master switchâ€™ of photomorphogenesis in early plant development. Nature Plants, 2021, 7, 268-276.	4.7	22
61	Atomistic insight into the origin of the temperature-dependence of kinetic isotope effects and H-tunnelling in enzyme systems is revealed through combined experimental studies and biomolecular simulation. Biochemical Society Transactions, 2008, 36, 16-21.	1.6	21
62	Enzymatic Single-Molecule Kinetic Isotope Effects. Journal of the American Chemical Society, 2013, 135, 3855-3864.	6.6	21
63	An oxidative N-demethylase reveals PAS transition from ubiquitous sensor to enzyme. Nature, 2016, 539, 593-597.	13.7	21
64	A common mechanism for coenzyme cobalamin-dependent reductive dehalogenases. Physical Chemistry Chemical Physics, 2017, 19, 6090-6094.	1.3	21
65	Synthetic biology for fibers, adhesives, and active camouflage materials in protection and aerospace. MRS Communications, 2019, 9, 486-504.	0.8	21
66	Equatorial Active Site Compaction and Electrostatic Reorganization in Catechol-O-methyltransferase. ACS Catalysis, 2019, 9, 4394-4401.	5.5	21
67	Driving Force Analysis of Proton Tunnelling Across a Reactivity Series for an Enzymeâ€Substrate Complex. ChemBioChem, 2008, 9, 2839-2845.	1.3	20
68	Ground-State Destabilization by Phe-448 and Phe-449 Contributes to Tyrosine Phenol-Lyase Catalysis. ACS Catalysis, 2016, 6, 6770-6779.	5.5	20
69	Structure and Mechanism of a Viral Collagen Prolyl Hydroxylase. Biochemistry, 2015, 54, 6093-6105.	1.2	19
70	A perspective on conformational control of electron transfer in nitric oxide synthases. Nitric Oxide - Biology and Chemistry, 2017, 63, 61-67.	1.2	19
71	How Do Vanadium Chloroperoxidases Generate Hypochlorite from Hydrogen Peroxide and Chloride? A Computational Study. ACS Catalysis, 2020, 10, 14067-14079.	5.5	19
72	Kinetic and spectroscopic probes of motions and catalysis in the cytochrome P450 reductase family of enzymes. FEBS Journal, 2012, 279, 1534-1544.	2.2	18

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73	Nuclear quantum tunnelling in enzymatic reactions â€“ an enzymologist's perspective. Physical Chemistry Chemical Physics, 2015, 17, 30775-30782.	1.3	18
74	Excited State Dynamics Can Be Used to Probe Donor-Acceptor Distances for H-Tunneling Reactions Catalyzed by Flavoproteins. Biophysical Journal, 2013, 105, 2549-2558.	0.2	17
75	Unexpected Roles of a Tether Harboring a Tyrosine Gatekeeper Residue in Modular Nitrite Reductase Catalysis. ACS Catalysis, 2019, 9, 6087-6099.	5.5	17
76	Conformational Dynamics of the Cytochrome P450 BM3/N-Palmitoylglycine Complex:â€‰ The Proposed â€œProximalâˆ'Distalâ€•Transition Probed by Temperature-Jump Spectroscopy. Journal of Physical Chemistry B, 2007, 111, 7879-7886.	1.2	16
77	Secondary Kinetic Isotope Effects as Probes of Environmentallyâ€Coupled Enzymatic Hydrogen Tunneling Reactions. ChemPhysChem, 2008, 9, 1536-1539.	1.0	16
78	Solvent as a Probe of Active Site Motion and Chemistry during the Hydrogen Tunnelling Reaction in Morphinone Reductase. ChemPhysChem, 2008, 9, 1875-1881.	1.0	16
79	Probing active site geometry using high pressure and secondary isotope effects in an enzymeâ€catalysed â€˜deepâ€™ Hâ€tunnelling reaction. Journal of Physical Organic Chemistry, 2010, 23, 696-701.	0.9	16
80	A quantitative fluorescenceâ€based steadyâ€state assay of <scp>DNA</scp> polymerase. FEBS Journal, 2014, 281, 2042-2050.	2.2	16
81	Correlating Calmodulin Landscapes with Chemical Catalysis in Neuronal Nitric Oxide Synthase using Time-Resolved FRET and a 5-Deazaflavin Thermodynamic Trap. ACS Catalysis, 2016, 6, 5170-5180.	5.5	15
82	Dual role of the active site â€˜lidâ€™ regions of protochlorophyllide oxidoreductase in photocatalysis and plant development. FEBS Journal, 2021, 288, 175-189.	2.2	15
83	Structure and Mechanism of <i>Pseudomonas aeruginosa</i> PA0254/HudA, a prFMN-Dependent Pyrrole-2-carboxylic Acid Decarboxylase Linked to Virulence. ACS Catalysis, 2021, 11, 2865-2878.	5.5	15
84	Liver microsomal lipid enhances the activity and redox coupling of colocalized cytochrome P450 reductaseâ€cytochrome P450 3A4 in nanodiscs. FEBS Journal, 2017, 284, 2302-2319.	2.2	14
85	UbiD domain dynamics underpins aromatic decarboxylation. Nature Communications, 2021, 12, 5065.	5.8	14
86	Taming the Reactivity of Monoterpene Synthases To Guide Regioselective Product Hydroxylation. ChemBioChem, 2020, 21, 985-990.	1.3	13
87	Nonequivalence of Second Sphere â€œNoncatalyticâ€•Residues in Pentaerythritol Tetranitrate Reductase in Relation to Local Dynamics Linked to H-Transfer in Reactions with NADH and NADPH Coenzymes. ACS Catalysis, 2018, 8, 11589-11599.	5.5	12
88	Blood, sweat, and tears: extraterrestrial regolith biocomposites with in vivo binders. Materials Today Bio, 2021, 12, 100136.	2.6	12
89	Probing Coupled Motions in Enzymatic Hydrogen Tunnelling Reactions: Beyond Temperature-Dependence Studies of Kinetic Isotope Effects. RSC Biomolecular Sciences, 2009, , 199-218.	0.4	12
90	Dynamic, Electrostatic Model for the Generation and Control of Highâ€Energy Radical Intermediates by a Coenzyme B₁₂â€Dependent Enzyme. ChemBioChem, 2013, 14, 1529-1533.	1.3	11

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91	Directed evolution of prenylated FMN-dependent Fdc supports efficient in vivo isobutene production. Nature Communications, 2021, 12, 5300.	5.8	11
92	Proton tunnelling and promoting vibrations during the oxidation of ascorbate by ferricyanide?. Physical Chemistry Chemical Physics, 2014, 16, 2256.	1.3	10
93	Selectivity through discriminatory induced fit enables switching of <scp>NAD</scp>(P)H coenzyme specificity in Old Yellow Enzyme eneâ€reductases. FEBS Journal, 2019, 286, 3117-3128.	2.2	10
94	Interplay between chromophore binding and domain assembly by the B₁₂-dependent photoreceptor protein, CarH. Chemical Science, 2021, 12, 8333-8341.	3.7	10
95	Correction of Pre-Steady-State KIEs for Isotopic Impurities and the Consequences of Kinetic Isotope Fractionation. Journal of Physical Chemistry A, 2008, 112, 13109-13115.	1.1	9
96	Making a single-chain four-helix bundle for redox chemistry studies. Protein Engineering, Design and Selection, 2008, 21, 645-652.	1.0	9
97	Preparation and photophysical properties of a caged kynurenine. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 2734-2737.	1.0	9
98	Time Course Analysis of Enzyme-Catalyzed DNA Polymerization. Biochemistry, 2016, 55, 5622-5634.	1.2	9
99	Photochemical Spin Dynamics of the Vitamin B₁₂ Derivative, Methylcobalamin. Journal of Physical Chemistry B, 2019, 123, 4663-4672.	1.2	9
100	Does the pressure dependence of kinetic isotope effects report usefully on dynamics in enzyme Hâ€transfer reactions?. FEBS Journal, 2015, 282, 3243-3255.	2.2	8
101	MhuD from <i>Mycobacterium tuberculosis</i>: Probing a Dual Role in Heme Storage and Degradation. ACS Infectious Diseases, 2019, 5, 1855-1866.	1.8	8
102	Grapheneâ€“aramid nanocomposite fibres <i>via</i> superacid co-processing. Chemical Communications, 2019, 55, 11703-11706.	2.2	8
103	Covalent Attachment of Active Enzymes to Upconversion Phosphors Allows Ratiometric Detection of Substrates. Chemistry - A European Journal, 2020, 26, 14817-14822.	1.7	8
104	Ultrafast Vibrational Energy Transfer between Protein and Cofactor in a Flavoenzyme. Journal of Physical Chemistry B, 2020, 124, 5163-5168.	1.2	8
105	A Noncanonical Tryptophan Analogue Reveals an Active Site Hydrogen Bond Controlling Ferryl Reactivity in a Heme Peroxidase. Jacs Au, 2021, 1, 913-918.	3.6	8
106	How Photoactivation Triggers Protochlorophyllide Reduction: Computational Evidence of a Stepwise Hydride Transfer during Chlorophyll Biosynthesis. ACS Catalysis, 2022, 12, 4141-4148.	5.5	8
107	Modulation of ligandâ€“heme reactivity by binding pocket residues demonstrated in cytochromeÂc' over the femtosecondâ€“second temporal range. FEBS Journal, 2013, 280, 6070-6082.	2.2	7
108	Expanding the Scope of Biomolecule Monitoring with Ratiometric Signaling from Rareâ€Earth Upconverting Phosphors. European Journal of Inorganic Chemistry, 2017, 2017, 5176-5185.	1.0	7

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109	What are the signatures of tunnelling in enzyme-catalysed reactions?. Faraday Discussions, 2019, 221, 367-378.	1.6	7
110	H-transfers in Photosystem II: what can we learn from recent lessons in the enzyme community?. Photosynthesis Research, 2008, 98, 169-177.	1.6	6
111	1H, 15N and 13C backbone resonance assignments of pentaerythritol tetranitrate reductase from Enterobacter cloacae PB2. Biomolecular NMR Assignments, 2018, 12, 79-83.	0.4	6
112	Pressure and Temperature Effects on the Formation of Aminoacrylate Intermediates of Tyrosine Phenol-lyase Demonstrate Reaction Dynamics. ACS Catalysis, 2020, 10, 1692-1703.	5.5	6
113	Practical Aspects on the Use of Kinetic Isotope Effects as Probes of Flavoprotein Enzyme Mechanisms. Methods in Molecular Biology, 2014, 1146, 161-175.	0.4	6
114	Evidence of Preorganization in Quinonoid Intermediate Formation from <scp>l</scp>-Trp in H463F Mutant <i>Escherichia coli</i> Tryptophan Indole-lyase from Effects of Pressure and pH. Biochemistry, 2012, 51, 6527-6533.	1.2	5
115	Probing Reversible Chemistry in Coenzyme B₁₂â€Dependent Ethanolamine Ammonia Lyase with Kinetic Isotope Effects. Chemistry - A European Journal, 2015, 21, 8826-8831.	1.7	5
116	Molecular Determinants of Carbocation Cyclisation in Bacterial Monoterpene Synthases. ChemBioChem, 2022, 23, .	1.3	5
117	Zero-point energy and tunnelling: general discussion. Faraday Discussions, 2019, 221, 478-500.	1.6	4
118	Evaluating spectral overlap with the degree of quenching in UCP luminescence energy transfer systems. Methods and Applications in Fluorescence, 2020, 8, 045003.	1.1	3
119	Chelator-Based Parameterization of the 12-6-4 Lennard-Jones Molecular Mechanics Potential for More Realistic Metal Ionâ€"Protein Interactions. Journal of Chemical Theory and Computation, 2022, 18, 2367-2374.	2.3	3
120	Examining the importance of dynamics, barrier compression and hydrogen tunnelling in enzyme catalysed reactions. Procedia Chemistry, 2011, 3, 306-315.	0.7	2
121	1H, 15N, 13C backbone resonance assignments of human soluble catechol O-methyltransferase in complex with S-adenosyl-l-methionine and 3,5-dinitrocatechol. Biomolecular NMR Assignments, 2017, 11, 57-61.	0.4	2
122	Trapping methods for probing functional intermediates in nitric oxide synthases and related enzymes. Frontiers in Bioscience - Landmark, 2018, 23, 1874-1888.	3.0	2
123	Isotopically labeled flavoenzymes and their uses in probing reaction mechanisms. Methods in Enzymology, 2019, 620, 145-166.	0.4	2
124	Evaluating spectral overlap with the degree of quenching in UCP luminescence energy transfer systems. Methods and Applications in Fluorescence, 2019, 7, 034003.	1.1	2
125	Chapter 3. Experimental Approaches Towards Proton-Coupled Electron Transfer Reactions in Biological Redox Systems. RSC Catalysis Series, 2011, , 57-88.	0.1	1
126	Extracting Kinetic Isotope Effects From a Global Analysis of Reaction Progress Curves. Methods in Enzymology, 2017, 596, 85-111.	0.4	1

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127	Assessing the Covalent Attachment and Energy Transfer Capabilities of Upconverting Phosphors With Cofactor Containing Bioactive Enzymes. Frontiers in Chemistry, 2020, 8, 613334.	1.8	1