John P Richard

List of Publications by Year
in descending order

232 papers	9,404 citations	31902 53 h-index	56606 83 g-index
247 all docs	247 docs citations	247 times ranked	5179 citing authors

#	Article	IF	Citations
1	Formation and Stability of N-Heterocyclic Carbenes in Water:Â The Carbon Acid pKaof Imidazolium Cations in Aqueous Solution. Journal of the American Chemical Society, 2004, 126, 4366-4374.	6.6	476
2	Mechanism for the formation of methylglyoxal from triosephosphates. Biochemical Society Transactions, 1993, 21, 549-553.	1.6	233
3	Acid-base catalysis of the elimination and isomerization reactions of triose phosphates. Journal of the American Chemical Society, 1984, 106, 4926-4936.	6.6	224
4	Physical and Kinetic Analysis of the Cooperative Role of Metal Ions in Catalysis of Phosphodiester Cleavage by a Dinuclear Zn(II) Complex. Journal of the American Chemical Society, 2003, 125, 1988-1993.	6.6	224
5	Kinetic parameters for the elimination reaction catalyzed by triosephosphate isomerase and an estimation of the reaction's physiological significance. Biochemistry, 1991, 30, 4581-4585.	1.2	211
6	Determination of the pKaof Ethyl Acetate:Â BrÃ¸nsted Correlation for Deprotonation of a Simple Oxygen Ester in Aqueous Solution. Journal of the American Chemical Society, 1996, 118, 3129-3141.	6.6	179
7	A role for flexible loops in enzyme catalysis. Current Opinion in Structural Biology, 2010, 20, 702-710.	2.6	149
8	Formation and Stability of Carbocations and Carbanions in Water and Intrinsic Barriers to Their Reactions. Accounts of Chemical Research, 2001, 34, 981-988.	7.6	146
9	Cooperativity between Metal Ions in the Cleavage of Phosphate Diesters and RNA by Dinuclear Zn(II) Catalysts. Inorganic Chemistry, 2003, 42, 7737-7746.	1.9	143
10	Reactions of substituted 1-phenylethyl carbocations with alcohols and other nucleophilic reagents. Journal of the American Chemical Society, 1984, 106, 1373-1383.	6.6	136
11	Formation and stability of ring-substituted 1-phenylethyl carbocations. Journal of the American Chemical Society, 1984, 106, 1361-1372.	6.6	135
12	Concerted bimolecular substitution reactions of 1-phenylethyl derivatives. Journal of the American Chemical Society, 1984, 106, 1383-1396.	6.6	124
13	A consideration of the barrier for carbocation-nucleophile combination reactions. Tetrahedron, 1995, 51, 1535-1573.	1.0	122
14	Formation and Stability of Organic Zwitterions in Aqueous Solution:Â Enolates of the Amino Acid Glycine and Its Derivatives. Journal of the American Chemical Society, 2000, 122, 9373-9385.	6.6	114
15	The generation and reactions of quinone methides. Advances in Physical Organic Chemistry, 2011, 45, 39-91.	0.5	114
16	Experimental and Computational Determination of the Effect of the Cyano Group on Carbon Acidity in Water. Journal of the American Chemical Society, 1999, 121, 715-726.	6.6	110
17	Formation and Stability of Enolates of Acetamide and Acetate Anion:Â An Eigen Plot for Proton Transfer at Î±-Carbonyl Carbon. Journal of the American Chemical Society, 2002, 124, 2957-2968.	6.6	108
18	Phosphate Binding Energy and Catalysis by Small and Large Molecules. Accounts of Chemical Research, 2008, 41, 539-548.	7.6	105

#	Article	IF	Citations
19	Proton transfer at carbon. Current Opinion in Chemical Biology, 2001, 5, 626-633.	2.8	103
20	Generation and stability of a simple thiol ester enolate in aqueous solution. Journal of the American Chemical Society, 1992, 114, 10297-10302.	6.6	102
21	A simple relationship between carbocation lifetime and reactivity-selectivity relationships for the solvolysis of ring-substituted 1-phenylethyl derivatives. Journal of the American Chemical Society, 1982, 104, 4689-4691.	6.6	98
22	Enzymatic Catalysis of Proton Transfer at Carbon:â€‰ Activation of Triosephosphate Isomerase by Phosphite Dianion. Biochemistry, 2007, 46, 5841-5854.	1.2	96
23	Specificity in Transition State Binding: The Pauling Model Revisited. Biochemistry, 2013, 52, 2021-2035.	1.2	96
24	Mechanistic Imperatives for Aldoseâ^'Ketose Isomerization in Water:Â Specific, General Base- and Metal Ion-Catalyzed Isomerization of Glyceraldehyde with Proton and Hydride Transfer. Journal of the American Chemical Society, 2001, 123, 794-802.	6.6	94
25	Activation of Orotidine 5â€²-Monophosphate Decarboxylase by Phosphite Dianion:Â The Whole Substrate is the Sum of Two Parts. Journal of the American Chemical Society, 2005, 127, 15708-15709.	6.6	92
26	Enzyme architecture: on the importance of being in a protein cage. Current Opinion in Chemical Biology, 2014, 21, 1-10.	2.8	91
27	Protein Flexibility and Stiffness Enable Efficient Enzymatic Catalysis. Journal of the American Chemical Society, 2019, 141, 3320-3331.	6.6	91
28	Experiments and calculations for determination of the stabilities of benzyl, benzhydryl, and fluorenyl carbocations: antiaromaticity revisited. Journal of the American Chemical Society, 1992, 114, 8032-8041.	6.6	86
29	Stereochemical courses of nucleotidyltransferase and phosphotransferase action. Uridine diphosphate glucose pyrophosphorylase, galactose-1-phosphate uridylyltransferase, adenylate kinase, and nucleoside diphosphate kinase. Biochemistry, 1979, 18, 5548-5556.	1.2	84
30	Solvent Deuterium Isotope Effects on Phosphodiester Cleavage Catalyzed by an Extraordinarily Active Zn(II) Complex. Journal of the American Chemical Society, 2005, 127, 1064-1065.	6.6	80
31	Formation and Stability of a Vinyl Carbanion at the Active Site of Orotidine 5â€²-Monophosphate Decarboxylase:â€‰ p<i>K</i>_a of the C-6 Proton of Enzyme-Bound UMP. Journal of the American Chemical Society, 2008, 130, 1574-1575.	6.6	79
32	On the importance of being zwitterionic: enzymatic catalysis of decarboxylation and deprotonation of cationic carbon. Bioorganic Chemistry, 2004, 32, 354-366.	2.0	77
33	Effect of .beta.-fluorine substituents on the rate and equilibrium constants for the reactions of .alpha.-substituted 4-methoxybenzyl carbocations and on the reactivity of a simple quinone methide. Journal of the American Chemical Society, 1990, 112, 9513-9519.	6.6	76
34	Substrate Specificity of an Active Dinuclear Zn(II) Catalyst for Cleavage of RNA Analogues and a Dinucleoside. Journal of the American Chemical Society, 2006, 128, 1615-1621.	6.6	76
35	Mechanism for Nucleophilic Substitution and Elimination Reactions at Tertiary Carbon in Largely Aqueous Solutions:â€‰ Lifetime of a Simple Tertiary Carbocation. Journal of the American Chemical Society, 1996, 118, 11434-11445.	6.6	75
36	The Enhancement of Enzymatic Rate Accelerations by BrÃ¸nsted Acidâ^'Base Catalysisâ€. Biochemistry, 1998, 37, 4305-4309.	1.2	75

#	Article	IF	Citations
37	Contribution of Phosphate Intrinsic Binding Energy to the Enzymatic Rate Acceleration for Triosephosphate Isomerase. Journal of the American Chemical Society, 2001, 123, 11325-11326.	6.6	73
38	Stereochemical course of thiophosphoryl group transfer catalyzed by adenylate kinase. Journal of the American Chemical Society, 1978, 100, 7757-7758.	6.6	69
39	A Paradigm for Enzyme-Catalyzed Proton Transfer at Carbon: Triosephosphate Isomerase. Biochemistry, 2012, 51, 2652-2661.	1.2	69
40	Structureâˆ'Reactivity Relationships and Intrinsic Reaction Barriers for Nucleophile Additions to a Quinone Methide:Â A Strongly Resonance-Stabilized Carbocation. Journal of the American Chemical Society, 2000, 122, 1664-1674.	6.6	68
41	Structureâˆ'Activity Studies on the Cleavage of an RNA Analogue by a Potent Dinuclear Metal Ion Catalyst:Â Effect of Changing the Metal Ion. Inorganic Chemistry, 2004, 43, 1743-1750.	1.9	68
42	Concurrent stepwise and concerted substitution reactions of 4-methoxybenzyl derivatives and the lifetime of the 4-methoxybenzyl carbocation. Journal of the American Chemical Society, 1990, 112, 9507-9512.	6.6	66
43	A Substrate in Pieces: Allosteric Activation of Glycerol 3-Phosphate Dehydrogenase (NAD⁺) by Phosphite Dianion. Biochemistry, 2008, 47, 4575-4582.	1.2	65
44	Pyridoxal 5â€²-phosphate: electrophilic catalyst extraordinaire. Current Opinion in Chemical Biology, 2009, 13, 475-483.	2.8	61
45	Altered Transition State for the Reaction of an RNA Model Catalyzed by a Dinuclear Zinc(II) Catalyst. Journal of the American Chemical Society, 2008, 130, 17858-17866.	6.6	59
46	Mechanism of the Orotidine 5â€²-Monophosphate Decarboxylase-Catalyzed Reaction: Evidence for Substrate Destabilization[,]. Biochemistry, 2009, 48, 5518-5531.	1.2	58
47	Substituent Effects on the Thermodynamic Stability of Imines Formed from Glycine and Aromatic Aldehydes: Implications for the Catalytic Activity of Pyridoxal-5â€²-phosphate. Journal of the American Chemical Society, 2009, 131, 15815-15824.	6.6	58
48	Biological Enolates:Â Generation and Stability of the Enolate of N-Protonated Glycine Methyl Ester in Water. Journal of the American Chemical Society, 1997, 119, 8375-8376.	6.6	57
49	Glycine Enolates:Â The Large Effect of Iminium Ion Formation on Î±-Amino Carbon Acidity. Journal of the American Chemical Society, 2001, 123, 7949-7950.	6.6	57
50	Role of Lys-12 in Catalysis by Triosephosphate Isomerase: A Two-Part Substrate Approach. Biochemistry, 2010, 49, 5377-5389.	1.2	57
51	What Is the Stabilizing Interaction with Nucleophilic Solvents in the Transition State for Solvolysis of Tertiary Derivatives:â€‰ Nucleophilic Solvent Participation or Nucleophilic Solvation?. Organic Letters, 2001, 3, 2225-2228.	2.4	56
52	General base catalysis of the addition of hydroxylic reagents to unstable carbocations and its disappearance. Journal of the American Chemical Society, 1984, 106, 1396-1401.	6.6	55
53	The extraordinarily long lifetimes and other properties of highly destabilized ring-substituted 1-phenyl-2,2,2-trifluoroethyl carbocations. Journal of the American Chemical Society, 1989, 111, 1455-1465.	6.6	55
54	Hydron Transfer Catalyzed by Triosephosphate Isomerase. Products of Isomerization of (R)-Glyceraldehyde 3-Phosphate in D2Oâ€. Biochemistry, 2005, 44, 2610-2621.	1.2	55

#	Article	IF	Citations
55	Hydron Transfer Catalyzed by Triosephosphate Isomerase. Products of the Direct and Phosphite-Activated Isomerization of [1-¹³C]-Glycolaldehyde in D₂O. Biochemistry, 2009, 48, 5769-5778.	1.2	54
56	Structureâˆ’Reactivity Relationships for Î²-Galactosidase (Escherichia coli,lac Z). 4. Mechanism for Reaction of Nucleophiles with the Galactosyl-Enzyme Intermediates of E461G and E461Q Î²-Galactosidasesâ€. Biochemistry, 1996, 35, 12387-12401.	1.2	53
57	Formation and Stability of Peptide Enolates in Aqueous Solution. Journal of the American Chemical Society, 2002, 124, 8251-8259.	6.6	53
58	Covalent Catalysis by Pyridoxal:â€‰ Evaluation of the Effect of the Cofactor on the Carbon Acidity of Glycine. Journal of the American Chemical Society, 2007, 129, 3013-3021.	6.6	51
59	Synthesis of nucleoside [18O]pyrophosphorothioates with chiral [18O]phosphorothioate groups of known configuration. Stereochemical orientations of enzymic phosphorylations of chiral [18O]phosphorothioates. Journal of the American Chemical Society, 1978, 100, 7756-7757.	6.6	50
60	Structureâˆ’Reactivity Relationships for Î²-Galactosidase (Escherichia coli,lac Z). 3. Evidence that Glu-461 Participates in BrÃ¸nsted Acidâˆ’Base Catalysis of Î²-d-Galactopyranosyl Group Transferâ€. Biochemistry, 1996, 35, 12377-12386.	1.2	49
61	Substituent Effects on Carbocation Stability:Â The pKRforp-Quinone Methide. Journal of the American Chemical Society, 2003, 125, 8814-8819.	6.6	49
62	Glycine Enolates:Â The Effect of Formation of Iminium Ions to Simple Ketones on Î±-Amino Carbon Acidity and a Comparison with Pyridoxal Iminium Ions. Journal of the American Chemical Society, 2008, 130, 2041-2050.	6.6	46
63	The effects of .alpha.-substituents on the kinetic and thermodynamic stability of 4-methoxybenzyl carbocations: carbocation lifetimes that are independent of their thermodynamic stability. Journal of Organic Chemistry, 1993, 58, 6057-6066.	1.7	45
64	Structure-reactivity relationships for .beta.-galactosidase (Escherichia coli, lac Z). 2. Reactions of the galactosyl-enzyme intermediate with alcohols and azide ion. Biochemistry, 1995, 34, 11713-11724.	1.2	45
65	The Activating Oxydianion Binding Domain for Enzyme-Catalyzed Proton Transfer, Hydride Transfer, and Decarboxylation: Specificity and Enzyme Architecture. Journal of the American Chemical Society, 2015, 137, 1372-1382.	6.6	45
66	Concerted SN2 displacement reactions of 1-phenylethyl chlorides. Journal of the American Chemical Society, 1982, 104, 4691-4692.	6.6	44
67	Spontaneous Cleavage of gem-Diazides: A Comparison of the Effects of .alpha.-Azido and Other Electron-Donating Groups on the Kinetic and Thermodynamic Stability of Benzyl and Alkyl Carbocations in Aqueous Solution. Journal of the American Chemical Society, 1995, 117, 5198-5205.	6.6	44
68	Hydron Transfer Catalyzed by Triosephosphate Isomerase. Products of Isomerization of Dihydroxyacetone Phosphate in D2Oâ€. Biochemistry, 2005, 44, 2622-2631.	1.2	44
69	Formation and Stability of Mononuclear and Dinuclear Eu(III) Complexes and Their Catalytic Reactivity Toward Cleavage of an RNA Analog. Inorganic Chemistry, 2007, 46, 7169-7177.	1.9	44
70	Product Deuterium Isotope Effect for Orotidine 5â€˜-Monophosphate Decarboxylase:Â Evidence for the Existence of a Short-Lived Carbanion Intermediate. Journal of the American Chemical Society, 2007, 129, 12946-12947.	6.6	44
71	Substrate specificity for catalysis of phosphodiester cleavage by a dinuclear Zn(ii) complex. Chemical Communications, 2003, , 2832.	2.2	43
72	Activation of R235A Mutant Orotidine 5â€²-Monophosphate Decarboxylase by the Guanidinium Cation: Effective Molarity of the Cationic Side Chain of Arg-235. Biochemistry, 2010, 49, 824-826.	1.2	41

#	Article	IF	Citations
73	OMP Decarboxylase: Phosphodianion Binding Energy Is Used To Stabilize a Vinyl Carbanion Intermediate. Journal of the American Chemical Society, 2011, 133, 6545-6548.	6.6	41
74	Magnitude and Origin of the Enhanced Basicity of the Catalytic Glutamate of Triosephosphate Isomerase. Journal of the American Chemical Society, 2013, 135, 5978-5981.	6.6	41
75	Stereochemical course of a phosphokinase using a chiral [18O]phosphorothioate. Comparison with the transfer of a chiral [16O,17O,18O] phosphoryl group. Biochemistry, 1980, 19, 325-329.	1.2	40
76	Absence of nucleophilic assistance by solvent and azide ion to the reaction of cumyl derivatives: mechanism of nucleophilic substitution at tertiary carbon. Journal of the American Chemical Society, 1991, 113, 5871-5873.	6.6	40
77	Intrinsic Barriers for the Reactions of an Oxocarbenium Ion in Water. Journal of the American Chemical Society, 1999, 121, 8403-8404.	6.6	40
78	Substituent Effects on Electrophilic Catalysis by the Carbonyl Group: Anatomy of the Rate Acceleration for PLP-Catalyzed Deprotonation of Glycine. Journal of the American Chemical Society, 2011, 133, 3173-3183.	6.6	40
79	Dissecting the Total Transition State Stabilization Provided by Amino Acid Side Chains at Orotidine 5â€²-Monophosphate Decarboxylase: A Two-Part Substrate Approach. Biochemistry, 2008, 47, 7785-7787.	1.2	39
80	Mechanism for Activation of Triosephosphate Isomerase by Phosphite Dianion: The Role of a Ligand-Driven Conformational Change. Journal of the American Chemical Society, 2011, 133, 16428-16431.	6.6	39
81	Orotidine 5â€²-Monophosphate Decarboxylase: Transition State Stabilization from Remote Proteinâ€“Phosphodianion Interactions. Biochemistry, 2012, 51, 4630-4632.	1.2	39
82	Direct observation of Î²-fluoro-substituted 4-methoxyphenethyl cations by laser flash photolysis. Journal of the Chemical Society Perkin Transactions II, 1993, , 1717-1722.	0.9	38
83	Role of Loop-Clamping Side Chains in Catalysis by Triosephosphate Isomerase. Journal of the American Chemical Society, 2015, 137, 15185-15197.	6.6	38
84	Enzyme Architecture: Modeling the Operation of a Hydrophobic Clamp in Catalysis by Triosephosphate Isomerase. Journal of the American Chemical Society, 2017, 139, 10514-10525.	6.6	38
85	Structure-reactivity relationships for .beta.-galactosidase (Escherichia coli, lac Z). 1. Broensted parameters for cleavage of alkyl .beta.-D-galactopyranosides. Biochemistry, 1995, 34, 11703-11712.	1.2	37
86	Formation and Stability of the Enolates of N-Protonated Proline Methyl Ester and Proline Zwitterion in Aqueous Solution:â€‰ A Nonenzymatic Model for the First Step in the Racemization of Proline Catalyzed by Proline Racemase. Biochemistry, 2003, 42, 8354-8361.	1.2	37
87	A Marcus Treatment of Rate Constants for Protonation of Ring-Substituted Î±-Methoxystyrenes:Â Intrinsic Reaction Barriers and the Shape of the Reaction Coordinate. Journal of the American Chemical Society, 2007, 129, 6952-6961.	6.6	37
88	Proton Transfer from C-6 of Uridine 5â€²-Monophosphate Catalyzed by Orotidine 5â€²-Monophosphate Decarboxylase: Formation and Stability of a Vinyl Carbanion Intermediate and the Effect of a 5-Fluoro Substituent. Journal of the American Chemical Society, 2012, 134, 14580-14594.	6.6	37
89	Rescue of K12G Triosephosphate Isomerase by Ammonium Cations: The Reaction of an Enzyme in Pieces. Journal of the American Chemical Society, 2010, 132, 13525-13532.	6.6	36
90	A minimalist approach to understanding the efficiency of mononuclear Zn(ii) complexes as catalysts of cleavage of an RNA analog. Dalton Transactions, 2007, , 3804.	1.6	35

#	Article	IF	Citations
91	Mechanism for Activation of Triosephosphate Isomerase by Phosphite Dianion: The Role of a Hydrophobic Clamp. Journal of the American Chemical Society, 2012, 134, 10286-10298.	6.6	35
92	Reflections on the catalytic power of a TIM-barrel. Bioorganic Chemistry, 2014, 57, 206-212.	2.0	35
93	Reactions of ring-substituted 1-phenyl-2,2,2-trifluoroethyl carbocations with nucleophilic reagents: a bridge between carbocations which follow the reactivity-selectivity principle and the N+ scale. Journal of the American Chemical Society, 1992, 114, 5626-5634.	6.6	34
94	Kinetic and thermodynamic stabilities of .alpha.-oxygen- and .alpha.-sulfur-stabilized carbocations in solution. Journal of the American Chemical Society, 1993, 115, 8465-8466.	6.6	34
95	Mechanism of the Orotidine 5â€²-Monophosphate Decarboxylase-Catalyzed Reaction: Effect of Solvent Viscosity on Kinetic Constants. Biochemistry, 2009, 48, 5510-5517.	1.2	34
96	[14] Stereochemistry of selected phosphotransferases and nucleotidyltransferases. Methods in Enzymology, 1982, 87, 213-235.	0.4	33
97	Enzyme Architecture: Remarkably Similar Transition States for Triosephosphate Isomerase-Catalyzed Reactions of the Whole Substrate and the Substrate in Pieces. Journal of the American Chemical Society, 2014, 136, 4145-4148.	6.6	33
98	An Examination of the Relationship between Active Site Loop Size and Thermodynamic Activation Parameters for Orotidine 5â€²-Monophosphate Decarboxylase from Mesophilic and Thermophilic Organisms. Biochemistry, 2009, 48, 8006-8013.	1.2	32
99	Stereochemical course of thiophosphoryl group transfer catalyzed by mitochondrial phosphoenolpyruvate carboxykinase. Biochemistry, 1984, 23, 1779-1783.	1.2	31
100	Demonstration of the Chemical Competence of an Iminodiazonium Ion to Serve as the Reactive Intermediate of a Schmidt Reaction. Journal of the American Chemical Society, 1994, 116, 10833-10834.	6.6	31
101	A Comparison of Substituent Effects on the Stability of .alpha.,.alpha.-Dimethylbenzyl Carbocations in Aqueous Solution and in the Gas Phase: How Significant is Nucleophilic Solvation?. Journal of the American Chemical Society, 1994, 116, 6706-6712.	6.6	31
102	Intrinsic barriers to the formation and reaction of carbocations. Pure and Applied Chemistry, 1998, 70, 2007-2014.	0.9	31
103	Dynamics for Reaction of an Ion Pair in Aqueous Solution:Â The Rate Constant for Ion Pair Reorganization. Journal of the American Chemical Society, 2000, 122, 3963-3964.	6.6	31
104	Enzyme Architecture: Deconstruction of the Enzyme-Activating Phosphodianion Interactions of Orotidine 5â€²-Monophosphate Decarboxylase. Journal of the American Chemical Society, 2014, 136, 10156-10165.	6.6	31
105	Orotidine 5â€²-Monophosphate Decarboxylase: Probing the Limits of the <i>Possible</i> for Enzyme Catalysis. Accounts of Chemical Research, 2018, 51, 960-969.	7.6	31
106	Theoretical Analysis of Kinetic Isotope Effects on Proton Transfer Reactions between Substituted Î±-Methoxystyrenes and Substituted Acetic Acids. Journal of the American Chemical Society, 2009, 131, 13963-13971.	6.6	30
107	Structural Mutations That Probe the Interactions between the Catalytic and Dianion Activation Sites of Triosephosphate Isomerase. Biochemistry, 2013, 52, 5928-5940.	1.2	29
108	Enzyme Architecture: Optimization of Transition State Stabilization from a Cationâ€"Phosphodianion Pair. Journal of the American Chemical Society, 2015, 137, 5312-5315.	6.6	29

#	Article	IF	Citations
109	Structureâ˜'Reactivity Relationships for Addition of Sulfur Nucleophiles to Electrophilic Carbon:â€‰ Resonance, Polarization, and Steric/Electrostatic Effects. Journal of the American Chemical Society, 2000, 122, 11073-11083.	6.6	27
110	Direct excitation luminescence spectroscopy of Eu(iii) complexes of 1,4,7-tris(carbamoylmethyl)-1,4,7,10- tetraazacyclododecane derivatives and kinetic studies of their catalytic cleavage of an RNA analog. Dalton Transactions, 2007, , 5171.	1.6	27
111	Enzymatic Rate Enhancements: A Review and Perspective. Biochemistry, 2013, 52, 2009-2011.	1.2	27
112	Role of Ligand-Driven Conformational Changes in Enzyme Catalysis: Modeling the Reactivity of the Catalytic Cage of Triosephosphate Isomerase. Journal of the American Chemical Society, 2018, 140, 3854-3857.	6.6	27
113	Surprisingly small effect of an .alpha.-trifluromethyl-for-.alpha.-methyl substitution on 1-(4-methoxyphenyl)ethyl cation reactivity. Journal of the American Chemical Society, 1986, 108, 6819-6820.	6.6	26
114	Effects of electronic geminal interactions on the solvolytic reactivity of methoxymethyl derivatives. Journal of the American Chemical Society, 1993, 115, 2523-2524.	6.6	26
115	The stereochemical course of thiophosphoryl group transfer catalyzed by adenosine kinase. Biochemical and Biophysical Research Communications, 1980, 94, 1052-1056.	1.0	25
116	Mechanisms for the uncatalyzed and hydrogen ion catalyzed reactions of a simple quinone methide with solvent and halide ions. Journal of the American Chemical Society, 1991, 113, 4588-4595.	6.6	25
117	A transition state analog for phosphate diester cleavage catalyzed by a small enzyme-like metal ion complex. Bioorganic Chemistry, 2007, 35, 366-374.	2.0	25
118	Wildtype and Engineered Monomeric Triosephosphate Isomerase fromTrypanosoma brucei: Partitioning of Reaction Intermediates in D2O and Activation by Phosphite Dianion. Biochemistry, 2011, 50, 5767-5779.	1.2	25
119	Enzyme Architecture: Amino Acid Side-Chains That Function To Optimize the Basicity of the Active Site Glutamate of Triosephosphate Isomerase. Journal of the American Chemical Society, 2018, 140, 8277-8286.	6.6	25
120	Dynamics for the reactions of ion pair intermediates of solvolysis. Advances in Physical Organic Chemistry, 2004, 39, 1-26.	0.5	24
121	Product Deuterium Isotope Effects for Orotidine 5â€²-Monophosphate Decarboxylase: Effect of Changing Substrate and Enzyme Structure on the Partitioning of the Vinyl Carbanion Reaction Intermediate. Journal of the American Chemical Society, 2010, 132, 7018-7024.	6.6	24
122	Catalysis by Orotidine 5â€²-Monophosphate Decarboxylase: Effect of 5-Fluoro and 4â€²-Substituents on the Decarboxylation of Two-Part Substrates. Biochemistry, 2013, 52, 537-546.	1.2	24
123	Reaction of triose phosphate isomerase with L-glyceraldehyde 3-phosphate and triose 1,2-enediol 3-phosphate. Biochemistry, 1985, 24, 949-953.	1.2	23
124	Desolvation-limited reactions of amines with the 1-(4-methylthiophenyl)-2,2,2-trifluoroethyl carbocation. Journal of the Chemical Society Chemical Communications, 1987, , 1768.	2.0	23
125	Mechanistic Imperatives for Catalysis of Aldol Addition Reactions:Â Partitioning of the Enolate Intermediate between Reaction with BrÃ¸nsted Acids and the Carbonyl Group. Journal of the American Chemical Society, 1999, 121, 4763-4770.	6.6	23
126	Hydrogen Bonding and Catalysis of Solvolysis of 4-Methoxybenzyl Fluoride. Journal of the American Chemical Society, 2002, 124, 9798-9805.	6.6	23

#	Article	IF	Citations
127	Enzyme Architecture: The Effect of Replacement and Deletion Mutations of Loop 6 on Catalysis by Triosephosphate Isomerase. Biochemistry, 2014, 53, 3486-3501.	1.2	23
128	Kinetic and thermodynamic stability of .alpha.-azidobenzyl carbocations: putative intermediates in the Schmidt reaction. Journal of the American Chemical Society, 1991, 113, 1867-1869.	6.6	22
129	Effect of electron-withdrawing .alpha.-substituents on nucleophile selectivity toward 4-methoxybenzyl carbocations: selectivities that are independent of carbocation stability. Journal of Organic Chemistry, 1994, 59, 25-29.	1.7	22
130	Absolute and Relative Electrophilicities of a Carbonyl Group and Tertiary Ammonium Ions toward a Simple Enolate Ion. Journal of the American Chemical Society, 1995, 117, 4718-4719.	6.6	22
131	How Does Organic Structure Determine Organic Reactivity? Nucleophilic Substitution and Alkene-Forming Elimination Reactions of Î±-Carbonyl and Î±-Thiocarbonyl Substituted Benzyl Derivatives. Journal of the American Chemical Society, 1996, 118, 12603-12613.	6.6	22
132	Role of a Guanidinium Cationâ€"Phosphodianion Pair in Stabilizing the Vinyl Carbanion Intermediate of Orotidine 5â€²-Phosphate Decarboxylase-Catalyzed Reactions. Biochemistry, 2013, 52, 7500-7511.	1.2	22
133	Mechanistic Imperatives for Enzymatic Catalysis of Aldoseâˆ'Ketose Isomerization:Â Isomerization of Glyceraldehyde in Weakly Alkaline Aqueous Solution Occurs with Intramolecular Transfer of a Hydride Ion. Journal of the American Chemical Society, 1996, 118, 7432-7433.	6.6	21
134	Structureâ€"Function Studies of Hydrophobic Residues That Clamp a Basic Glutamate Side Chain during Catalysis by Triosephosphate Isomerase. Biochemistry, 2016, 55, 3036-3047.	1.2	21
135	Enzyme Architecture: The Role of a Flexible Loop in Activation of Glycerol-3-phosphate Dehydrogenase for Catalysis of Hydride Transfer. Biochemistry, 2018, 57, 3227-3236.	1.2	21
136	Enabling Role of Ligand-Driven Conformational Changes in Enzyme Evolution. Biochemistry, 2022, 61, 1533-1542.	1.2	21
137	Kinetic and Thermodynamic Barriers to Carbon and Oxygen Alkylation of Phenol and Phenoxide Ion by the 1-(4-Methoxyphenyl)ethyl Carbocation. Journal of the American Chemical Society, 2003, 125, 15455-15465.	6.6	19
138	Claisen-Type Addition of Glycine to Pyridoxal in Water. Journal of the American Chemical Society, 2004, 126, 10538-10539.	6.6	19
139	Enzyme Architecture: Self-Assembly of Enzyme and Substrate Pieces of Glycerol-3-Phosphate Dehydrogenase into a Robust Catalyst of Hydride Transfer. Journal of the American Chemical Society, 2016, 138, 15251-15259.	6.6	19
140	Rate and Equilibrium Constants for an Enzyme Conformational Change during Catalysis by Orotidine 5â€²-Monophosphate Decarboxylase. Biochemistry, 2015, 54, 4555-4564.	1.2	18
141	Aromatic substitution reactions of amines with ring-substituted 1-phenyl-2,2,2-trifluoroethyl carbocations. Journal of the American Chemical Society, 1989, 111, 6735-6744.	6.6	17
142	On the importance of reactions of carbocation ion pairs in water: common ion inhibition of solvolysis of 1-(4-methoxyphenyl)-2,2,2-trifluoroethyl bromide and trapping of an ion-pair intermediate by solvent. Journal of Organic Chemistry, 1992, 57, 625-629.	1.7	17
143	A Simple Method To Determine Kinetic Deuterium Isotope Effects Provides Evidence that Proton Transfer to Carbon Proceeds over and Not through the Reaction Barrier. Journal of the American Chemical Society, 2007, 129, 10330-10331.	6.6	17
144	Structureâˆ'Reactivity Effects on Primary Deuterium Isotope Effects on Protonation of Ring-Substituted Î±-Methoxystyrenes. Journal of the American Chemical Society, 2009, 131, 13952-13962.	6.6	17

#	Article	IF	Citations
145	Conformational Changes in Orotidine 5â€²-Monophosphate Decarboxylase: â€œRemoteâ€•Residues That Stabilize the Active Conformation. Biochemistry, 2010, 49, 3514-3516.	1.2	17
146	Isopentenyl Diphosphate Isomerase Catalyzed Reactions in D2O: Product Release Limits the Rate of This Sluggish Enzyme-Catalyzed Reaction. Journal of the American Chemical Society, 2012, 134, 6568-6570.	6.6	17
147	Stereochemical course of phosphoanhydride synthesis. Journal of the American Chemical Society, 1983, 105, 6605-6609.	6.6	16
148	Generation and determination of the lifetime of an Î±-carbonyl substituted carbocation. Tetrahedron Letters, 1991, 32, 4255-4258.	0.7	16
149	Carbon acidity of the Î±-pyridinium carbon of a pyridoxamine analog. Organic and Biomolecular Chemistry, 2005, 3, 2145.	1.5	16
150	Origin of Free Energy Barriers of Decarboxylation and the Reverse Process of CO₂ Capture in Dimethylformamide and in Water. Journal of the American Chemical Society, 2021, 143, 137-141.	6.6	16
151	How do reaction mechanisms change? Appearance of concerted pericyclic elimination for the reaction of cumyl derivatives. Journal of the American Chemical Society, 1991, 113, 8960-8961.	6.6	15
152	A Comparison of the Electrophilic Reactivities of Zn2+and Acetic Acid as Catalysts of Enolization:Â Imperatives for Enzymatic Catalysis of Proton Transfer at Carbon. Journal of the American Chemical Society, 2004, 126, 5164-5173.	6.6	15
153	Reactions of ion-pair intermediates of solvolysis. Chemical Record, 2005, 5, 94-106.	2.9	15
154	Binding Energy and Catalysis by <scp>d</scp>-Xylose Isomerase: Kinetic, Product, and X-ray Crystallographic Analysis of Enzyme-Catalyzed Isomerization of (<i>R</i>)-Glyceraldehyde. Biochemistry, 2011, 50, 10170-10181.	1.2	15
155	Enzyme Architecture: The Activating Oxydianion Binding Domain for Orotidine 5â€²-Monophophate Decarboxylase. Journal of the American Chemical Society, 2013, 135, 18343-18346.	6.6	15
156	Uncovering the Role of Key Active-Site Side Chains in Catalysis: An Extended BrÃ¸nsted Relationship for Substrate Deprotonation Catalyzed by Wild-Type and Variants of Triosephosphate Isomerase. Journal of the American Chemical Society, 2019, 141, 16139-16150.	6.6	15
157	Human Glycerol 3-Phosphate Dehydrogenase: X-ray Crystal Structures That Guide the Interpretation of Mutagenesis Studies. Biochemistry, 2019, 58, 1061-1073.	1.2	15
158	Equilibrium constants for the interconversion of substituted 1-phenylethyl alcohols and ethers. A measurement of intramolecular electrostatic interactions. Journal of the American Chemical Society, 1985, 107, 1340-1346.	6.6	14
159	Ketoâ^'Enol/Enolate Equilibria in theN-Acetylamino-p-methylacetophenone System. Effect of a Î²-Nitrogen Substituent. Journal of the American Chemical Society, 2001, 123, 8979-8984.	6.6	14
160	The Mandelamide Ketoâ^'Enol System in Aqueous Solution. Generation of the Enol by Hydration of Phenylcarbamoylcarbene. Journal of the American Chemical Society, 2003, 125, 187-194.	6.6	14
161	When Does an Intermediate Become a Transition State? Degenerate Isomerization without Competing Racemization during Solvolysis of (S)-1-(3-Nitrophenyl)ethyl Tosylate. Journal of the American Chemical Society, 2006, 128, 17139-17145.	6.6	14
162	The PLP cofactor: Lessons from studies on model reactions. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 1419-1425.	1.1	14

#	Article	IF	Citations
163	Formation and mechanism for reactions of ringâ€substituted phenonium ions in aqueous solution. Journal of Physical Organic Chemistry, 2016, 29, 557-564.	0.9	14
164	Enzyme Architecture: Erection of Active Orotidine 5â€²-Monophosphate Decarboxylase by Substrate-Induced Conformational Changes. Journal of the American Chemical Society, 2017, 139, 16048-16051.	6.6	14
165	Modeling the Role of a Flexible Loop and Active Site Side Chains in Hydride Transfer Catalyzed by Glycerol-3-phosphate Dehydrogenase. ACS Catalysis, 2020, 10, 11253-11267.	5.5	14
166	On the importance of carbocation intermediates in bimolecular nucleophilic substitution reactions in aqueous solution. Journal of the American Chemical Society, 1993, 115, 1739-1744.	6.6	13
167	Dynamics for Reaction of an Ion Pair in Aqueous Solution:â€‰ Reactivity of Carboxylate Anions in Bimolecular Carbocationâ^'Nucleophile Addition and Unimolecular Ion Pair Collapse. Organic Letters, 2001, 3, 1237-1240.	2.4	13
168	Dynamics of reaction of ion pairs in aqueous solution: racemization of the chiral ion pair intermediate of solvolysis of (S)-1-(4-methylphenyl)ethylpentafluorobenzoate. Journal of Physical Organic Chemistry, 2003, 16, 484-490.	0.9	13
169	Conformational Changes in Orotidine 5â€²-Monophosphate Decarboxylase: A Structure-Based Explanation for How the 5â€²-Phosphate Group Activates the Enzyme. Biochemistry, 2012, 51, 8665-8678.	1.2	13
170	Solvent Effects on Carbocationâ^'Nucleophile Combination Reactions:Â A Comparison of Ï€-Nucleophilicity in Aqueous and Organic Solvents. Journal of the American Chemical Society, 1998, 120, 10372-10378.	6.6	12
171	Scrambling of Oxygen-18 during the â€œBorderlineâ€• Solvolysis of 1-(3-Nitrophenyl)ethyl Tosylate. Organic Letters, 2004, 6, 3633-3636.	2.4	12
172	Slow proton transfer from the hydrogen-labelled carboxylic acid side chain (Glu-165) of triosephosphate isomerase to imidazole buffer in D2O. Organic and Biomolecular Chemistry, 2008, 6, 391-396.	1.5	12
173	Enzyme Architecture: A Startling Role for Asn270 in Glycerol 3-Phosphate Dehydrogenase-Catalyzed Hydride Transfer. Biochemistry, 2016, 55, 1429-1432.	1.2	12
174	Phosphodianion Activation of Enzymes for Catalysis of Central Metabolic Reactions. Journal of the American Chemical Society, 2021, 143, 2694-2698.	6.6	12
175	The role of ligand-gated conformational changes in enzyme catalysis. Biochemical Society Transactions, 2019, 47, 1449-1460.	1.6	12
176	Enhancement of a Lewis Acidâ^'Base Interaction via Solvation:Â Ammonia Molecules and the Benzene Radical Cation. Journal of Physical Chemistry A, 2007, 111, 6068-6076.	1.1	11
177	Enzyme Architecture: Breaking Down the Catalytic Cage that Activates Orotidine 5â€²-Monophosphate Decarboxylase for Catalysis. Journal of the American Chemical Society, 2018, 140, 17580-17590.	6.6	11
178	Primary Deuterium Kinetic Isotope Effects: A Probe for the Origin of the Rate Acceleration for Hydride Transfer Catalyzed by Glycerol-3-Phosphate Dehydrogenase. Biochemistry, 2018, 57, 4338-4348.	1.2	11
179	Carbocation lifetimes that are independent of carbocation stability: the reaction of Î±-substituted 4-methoxybenzyl carbocations. Journal of the Chemical Society Chemical Communications, 1991, , 200-202.	2.0	10
180	Nucleofugality of the benzotriazole group in solvolysis. Journal of Organic Chemistry, 1995, 60, 5989-5991.	1.7	10

#	Article	IF	Citations
181	Mechanistic Imperatives for the Reaction Catalyzed by Isopentenyl Pyrophosphate Isomerase: Free Energy Profile for Stepwise Isomerization in Water through a Tertiary Carbocation Intermediate. Bioorganic Chemistry, 1997, 25, 239-245.	2.0	10
182	Claisen-Type Addition of Glycine to a Pyridoxal Iminium Ion in Water. Journal of Organic Chemistry, 2006, 71, 7094-7096.	1.7	10
183	Rational Design of Transition-State Analogues as Potent Enzyme Inhibitors with Therapeutic Applications. ACS Chemical Biology, 2007, 2, 711-714.	1.6	10
184	Bovine Serum Albumin-Catalyzed Deprotonation of [1-¹³C]Glycolaldehyde: Protein Reactivity toward Deprotonation of the Î±-Hydroxy Î±-Carbonyl Carbon. Biochemistry, 2010, 49, 7704-7708.	1.2	10
185	Mechanistic imperatives for deprotonation of carbon catalyzed by triosephosphate isomerase: enzyme activation by phosphite dianion,. Journal of Physical Organic Chemistry, 2014, 27, 269-276.	0.9	10
186	Structureâ€"Reactivity Effects on Intrinsic Primary Kinetic Isotope Effects for Hydride Transfer Catalyzed by Glycerol-3-phosphate Dehydrogenase. Journal of the American Chemical Society, 2016, 138, 14526-14529.	6.6	10
187	Reduction of the 1-(4-thiomethylphenyl)-2,2,2-trifluoroethyl carbocation by sodium sulfite. Tetrahedron Letters, 1989, 30, 23-26.	0.7	9
188	How does structure determine organic reactivity? Partitioning of carbocations between addition of nucleophiles and deprotonation. Advances in Physical Organic Chemistry, 2000, 35, 67-115.	0.5	9
189	Formation and stability of organic zwitterions Â— The carbon acid pKas of the trimethylsulfonium and tetramethylphosphonium cations in water. Canadian Journal of Chemistry, 2005, 83, 1536-1542.	0.6	9
190	Dynamics for reactions of ion pairs in aqueous solution: reactivity of tosylate anion ion paired with the highly destabilized 1â€(4â€methylphenyl)â€2,2,2â€trifluoroethyl carbocation. Journal of Physical Organic Chemistry, 2010, 23, 730-734.	0.9	9
191	Role of the Carboxylate in Enzyme-Catalyzed Decarboxylation of Orotidine 5â€²-Monophosphate: Transition State Stabilization Dominates Over Ground State Destabilization. Journal of the American Chemical Society, 2019, 141, 13468-13478.	6.6	9
192	The Organization of Active Site Side Chains of Glycerol-3-phosphate Dehydrogenase Promotes Efficient Enzyme Catalysis and Rescue of Variant Enzymes. Biochemistry, 2020, 59, 1582-1591.	1.2	9
193	Relative Reactivities of a Strongly Nucleophilic Alkene and Azide Ion in Aqueous Methanol. Journal of Organic Chemistry, 1996, 61, 9033-9034.	1.7	8
194	Solvent Deuterium Isotope Effect on the Binding of Î²-d-Galactopyranosyl Derivatives to Î²-Galactosidase (Escherichia coli, lac Z). Bioorganic Chemistry, 2000, 28, 49-56.	2.0	8
195	Ground-State, Transition-State, and Metal-Cation Effects of the 2-Hydroxyl Group on Î²-d-Galactopyranosyl Transfer Catalyzed by Î²-Galactosidase (Escherichia coli, lac Z). Biochemistry, 2005, 44, 11872-11881.	1.2	8
196	Restoring a Metabolic Pathway. ACS Chemical Biology, 2008, 3, 605-607.	1.6	8
197	Formation and Stability of the 4-Methoxyphenonium Ion in Aqueous Solution. Journal of Organic Chemistry, 2011, 76, 9568-9571.	1.7	8
198	Substituent effects on the formation and nucleophile selectivity of ringâ€substituted phenonium ions in aqueous solution. Journal of Physical Organic Chemistry, 2013, 26, 970-976.	0.9	8

#	Article	IF	Citations
199	Kinetic mechanism for dimerization of an Î±-thioamide substituted benzyl carbocation in aqueous solution. Journal of Physical Organic Chemistry, 1998, 11, 701-706.	0.9	6
200	Enzymatic catalysis of proton transfer and decarboxylation reactions. Pure and Applied Chemistry, 2011, 83, 1555-1565.	0.9	6
201	Substituent Effects on Carbon Acidity in Aqueous Solution and at Enzyme Active Sites. Synlett, 2017, 28, 1407-1421.	1.0	6
202	Hydride Transfer Catalyzed by Glycerol Phosphate Dehydrogenase: Recruitment of an Acidic Amino Acid Side Chain to Rescue a Damaged Enzyme. Biochemistry, 2020, 59, 4856-4863.	1.2	6
203	Linear Free Energy Relationships for Enzymatic Reactions: Fresh Insight from a Venerable Probe. Accounts of Chemical Research, 2021, 54, 2532-2542.	7.6	6
204	Adenylate Kinase-Catalyzed Reaction of AMP in Pieces: Enzyme Activation for Phosphoryl Transfer to Phosphite Dianion. Biochemistry, 2021, 60, 2672-2676.	1.2	6
205	Orotidine 5â€²-Monophosphate Decarboxylase: The Operation of Active Site Chains Within and Across Protein Subunits. Biochemistry, 2020, 59, 2032-2040.	1.2	6
206	Ketonization of the remarkably strongly acidic elongated enol generated by flash photolytic decarboxylation of p-benzoylphenylacetic acid in aqueous solution. Chemical Communications, 2005, , 4231.	2.2	5
207	Structureâ€reactivity relationships for <i>Î²</i>â€galactosidase (<i>Escherichia coli, lac Z</i>): a second derivative effect on <i>Î²</i>_{nuc} for addition of alkyl alcohols to an oxocarbenium ion reaction intermediate. Journal of Physical Organic Chemistry, 2008, 21, 531-537.	0.9	5
208	Alanine-dependent reactions of 5â€²-deoxypyridoxal in water. Bioorganic Chemistry, 2008, 36, 295-298.	2.0	5
209	Proteinâ€"Ribofuranosyl Interactions Activate Orotidine 5â€²-Monophosphate Decarboxylase for Catalysis. Biochemistry, 2021, 60, 3362-3373.	1.2	5
210	How does organic structure determine organic reactivity? The effect of ortho-dimethyl groups on the nucleophilic substitution and alkene-forming elimination reactions of ring-substituted cumyl derivatives. Canadian Journal of Chemistry, 1999, 77, 922-933.	0.6	4
211	A reevaluation of the origin of the rate acceleration for enzyme-catalyzed hydride transfer. Organic and Biomolecular Chemistry, 2017, 15, 8856-8866.	1.5	4
212	How delocalised are resonance-stabilised 1-[4-(N-methyl-N-alkylamino)phenyl]-2,2,2-trifluoroethyl carbocations?. Journal of the Chemical Society Perkin Transactions II, 1993, , 171.	0.9	3
213	Imperatives for enzymatic catalysis of isomerization of sugars and sugar phosphates. Journal of Physical Organic Chemistry, 1998, 11, 512-518.	0.9	3
214	Crossing the Borderline between SN1 and SN2 Nucleophilic Substitution at Aliphatic Carbon. , 2005, , 41-68.		3
215	Enzyme and coenzyme reaction mechanisms: Editorial overview. Bioorganic Chemistry, 2014, 57, 169-170.	2.0	3
216	Primary Deuterium Kinetic Isotope Effects From Product Yields: Rationale, Implementation, and Interpretation. Methods in Enzymology, 2017, 596, 163-177.	0.4	3

#	Article	IF	Citations
217	Kinetic Studies of RNA Cleavage by Lanthanide(III) Macrocyclic Complexes. Bulletin of the Korean Chemical Society, 2004, 25, 403-406.	1.0	3
218	The role of remote flavin adenine dinucleotide pieces in the oxidative decarboxylation catalyzed by salicylate hydroxylase. Bioorganic Chemistry, 2022, 119, 105561.	2.0	3
219	Glycerol-3-Phosphate Dehydrogenase: The K120 and K204 Side Chains Define an Oxyanion Hole at the Enzyme Active Site. Biochemistry, 2022, 61, 856-867.	1.2	3
220	Swainâ€"Scott relationships for nucleophile addition to ring-substituted phenonium ions. Canadian Journal of Chemistry, 2015, 93, 428-434.	0.6	2
221	1â€ƒIntroduction. Annual Reports on the Progress of Chemistry Section B, 2000, 96, 1-2.	0.8	1
222	Deprotonation of the Î±-(N,N-dimethylcarbamoyl)-Î±-methyl-4-methoxybenzyl carbocation by alkanecarboxylate and halide ionsâ€. Perkin Transactions II RSC, 2001, , 1167-1173.	1.1	1
223	Effect of an E461G Mutation of Î²-Galactosidase (Escherichia coli, lac Z) on pL Rate Profiles and Solvent Deuterium Isotope Effects. Bioorganic Chemistry, 2001, 29, 146-155.	2.0	1
224	Mechanisms Complex biological processes and their central chemical events. Current Opinion in Chemical Biology, 2003, 7, 525-527.	2.8	1
225	1â€ƒâ€ƒIntroduction. Annual Reports on the Progress of Chemistry Section B, 2002, 98, 1-2.	0.8	0
226	Editorial: Biological applications of physical organic chemistry. Journal of Physical Organic Chemistry, 2004, 17, 459-460.	0.9	0
227	Reactions of Ion-Pair Intermediates of Solvolysis. ChemInform, 2005, 36, no.	0.1	0
228	Proton Transfer to and from Carbon in Model Reactions. , 0, , 949-973.		0
229	The ACS division of Biological Chemistry. IUBMB Life, 2007, 59, 224-225.	1.5	0
230	Punching Holes in an Enzyme. Chemistry and Biology, 2009, 16, 915-917.	6.2	0
231	Biographical Essay: A. Jerry Kresge. Advances in Physical Organic Chemistry, 2010, 44, xiii-xxiii.	0.5	0
232	William Platt Jencks. 15 August 1927 â€" 3 January 2007. Biographical Memoirs of Fellows of the Royal Society, 2011, 57, 179-188.	0.1	0