John P Richard

List of Publications by Year in descending order

232 papers	9,404 citations	31976 53 h-index	56724 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.	13.7	476
2	Mechanism for the formation of methylglyoxal from triosephosphates. Biochemical Society Transactions, 1993, 21, 549-553.	3.4	233
3	Acid-base catalysis of the elimination and isomerization reactions of triose phosphates. Journal of the American Chemical Society, 1984, 106, 4926-4936.	13.7	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.	13.7	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.	2.5	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.	13.7	179
7	A role for flexible loops in enzyme catalysis. Current Opinion in Structural Biology, 2010, 20, 702-710.	5.7	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.	15.6	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.	4.0	143
10	Reactions of substituted 1-phenylethyl carbocations with alcohols and other nucleophilic reagents. Journal of the American Chemical Society, 1984, 106, 1373-1383.	13.7	136
11	Formation and stability of ring-substituted 1-phenylethyl carbocations. Journal of the American Chemical Society, 1984, 106, 1361-1372.	13.7	135
12	Concerted bimolecular substitution reactions of 1-phenylethyl derivatives. Journal of the American Chemical Society, 1984, 106, 1383-1396.	13.7	124
13	A consideration of the barrier for carbocation-nucleophile combination reactions. Tetrahedron, 1995, 51, 1535-1573.	1.9	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.	13.7	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.	13.7	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.	13.7	108
18	Phosphate Binding Energy and Catalysis by Small and Large Molecules. Accounts of Chemical Research, 2008, 41, 539-548.	15.6	105

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19	Proton transfer at carbon. Current Opinion in Chemical Biology, 2001, 5, 626-633.	6.1	103
20	Generation and stability of a simple thiol ester enolate in aqueous solution. Journal of the American Chemical Society, 1992, 114, 10297-10302.	13.7	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.	13.7	98
22	Enzymatic Catalysis of Proton Transfer at Carbon:â€‰ Activation of Triosephosphate Isomerase by Phosphite Dianion. Biochemistry, 2007, 46, 5841-5854.	2.5	96
23	Specificity in Transition State Binding: The Pauling Model Revisited. Biochemistry, 2013, 52, 2021-2035.	2.5	96
24	Mechanistic Imperatives for Aldoseâˆ'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.	13.7	94
25	Activation of Orotidine 5â€˜-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.	13.7	92
26	Enzyme architecture: on the importance of being in a protein cage. Current Opinion in Chemical Biology, 2014, 21, 1-10.	6.1	91
27	Protein Flexibility and Stiffness Enable Efficient Enzymatic Catalysis. Journal of the American Chemical Society, 2019, 141, 3320-3331.	13.7	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.	13.7	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.	2.5	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.	13.7	80
31	Formation and Stability of a Vinyl Carbanion at the Active Site of Orotidine 5â€˜-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.	13.7	79
32	On the importance of being zwitterionic: enzymatic catalysis of decarboxylation and deprotonation of cationic carbon. Bioorganic Chemistry, 2004, 32, 354-366.	4.1	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.	13.7	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.	13.7	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.	13.7	75
36	The Enhancement of Enzymatic Rate Accelerations by BrÃ¸nsted Acidâˆ'Base Catalysisâ€. Biochemistry, 1998, 37, 4305-4309.	2.5	75

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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.	13.7	73
38	Stereochemical course of thiophosphoryl group transfer catalyzed by adenylate kinase. Journal of the American Chemical Society, 1978, 100, 7757-7758.	13.7	69
39	A Paradigm for Enzyme-Catalyzed Proton Transfer at Carbon: Triosephosphate Isomerase. Biochemistry, 2012, 51, 2652-2661.	2.5	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.	13.7	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.	4.0	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.	13.7	66
43	A Substrate in Pieces: Allosteric Activation of Glycerol 3-Phosphate Dehydrogenase (NAD⁺) by Phosphite Dianion. Biochemistry, 2008, 47, 4575-4582.	2.5	65
44	Pyridoxal 5â€²-phosphate: electrophilic catalyst extraordinaire. Current Opinion in Chemical Biology, 2009, 13, 475-483.	6.1	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.	13.7	59
46	Mechanism of the Orotidine 5â€²-Monophosphate Decarboxylase-Catalyzed Reaction: Evidence for Substrate Destabilization[,]. Biochemistry, 2009, 48, 5518-5531.	2.5	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.	13.7	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.	13.7	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.	13.7	57
50	Role of Lys-12 in Catalysis by Triosephosphate Isomerase: A Two-Part Substrate Approach. Biochemistry, 2010, 49, 5377-5389.	2.5	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.	4.6	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.	13.7	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.	13.7	55
54	Hydron Transfer Catalyzed by Triosephosphate Isomerase. Products of Isomerization of (R)-Glyceraldehyde 3-Phosphate in D2Oâ€. Biochemistry, 2005, 44, 2610-2621.	2.5	55

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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.	2.5	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.	2.5	53
57	Formation and Stability of Peptide Enolates in Aqueous Solution. Journal of the American Chemical Society, 2002, 124, 8251-8259.	13.7	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.	13.7	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.	13.7	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.	2.5	49
61	Substituent Effects on Carbocation Stability:Â The pKRforp-Quinone Methide. Journal of the American Chemical Society, 2003, 125, 8814-8819.	13.7	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.	13.7	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.	3.2	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.	2.5	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.	13.7	45
66	Concerted SN2 displacement reactions of 1-phenylethyl chlorides. Journal of the American Chemical Society, 1982, 104, 4691-4692.	13.7	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.	13.7	44
68	Hydron Transfer Catalyzed by Triosephosphate Isomerase. Products of Isomerization of Dihydroxyacetone Phosphate in D2Oâ€. Biochemistry, 2005, 44, 2622-2631.	2.5	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.	4.0	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.	13.7	44
71	Substrate specificity for catalysis of phosphodiester cleavage by a dinuclear Zn(ii) complex. Chemical Communications, 2003, , 2832.	4.1	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.	2.5	41

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73	OMP Decarboxylase: Phosphodianion Binding Energy Is Used To Stabilize a Vinyl Carbanion Intermediate. Journal of the American Chemical Society, 2011, 133, 6545-6548.	13.7	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.	13.7	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.	2.5	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.	13.7	40
77	Intrinsic Barriers for the Reactions of an Oxocarbenium Ion in Water. Journal of the American Chemical Society, 1999, 121, 8403-8404.	13.7	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.	13.7	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.	2.5	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.	13.7	39
81	Orotidine 5â€²-Monophosphate Decarboxylase: Transition State Stabilization from Remote Proteinâ€"Phosphodianion Interactions. Biochemistry, 2012, 51, 4630-4632.	2.5	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.	13.7	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.	13.7	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.	2.5	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.	2.5	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.	13.7	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.	13.7	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.	13.7	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.	3.3	35

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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.	13.7	35
92	Reflections on the catalytic power of a TIM-barrel. Bioorganic Chemistry, 2014, 57, 206-212.	4.1	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.	13.7	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.	13.7	34
95	Mechanism of the Orotidine 5â€²-Monophosphate Decarboxylase-Catalyzed Reaction: Effect of Solvent Viscosity on Kinetic Constants. Biochemistry, 2009, 48, 5510-5517.	2.5	34
96	[14] Stereochemistry of selected phosphotransferases and nucleotidyltransferases. Methods in Enzymology, 1982, 87, 213-235.	1.0	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.	13.7	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.	2.5	32
99	Stereochemical course of thiophosphoryl group transfer catalyzed by mitochondrial phosphoenolpyruvate carboxykinase. Biochemistry, 1984, 23, 1779-1783.	2.5	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.	13.7	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.	13.7	31
102	Intrinsic barriers to the formation and reaction of carbocations. Pure and Applied Chemistry, 1998, 70, 2007-2014.	1.9	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.	13.7	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.	13.7	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.	15.6	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.	13.7	30
107	Structural Mutations That Probe the Interactions between the Catalytic and Dianion Activation Sites of Triosephosphate Isomerase. Biochemistry, 2013, 52, 5928-5940.	2.5	29
108	Enzyme Architecture: Optimization of Transition State Stabilization from a Cationâ€"Phosphodianion Pair. Journal of the American Chemical Society, 2015, 137, 5312-5315.	13.7	29

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109	Structureâˆ'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.	13.7	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.	3.3	27
111	Enzymatic Rate Enhancements: A Review and Perspective. Biochemistry, 2013, 52, 2009-2011.	2.5	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.	13.7	27
113	Surprisingly small effect of an .alpha.-triflurometyl-for-.alpha.-methyl substitution on 1-(4-methoxyphenyl)ethyl cation reactivity. Journal of the American Chemical Society, 1986, 108, 6819-6820.	13.7	26
114	Effects of electronic geminal interactions on the solvolytic reactivity of methoxymethyl derivatives. Journal of the American Chemical Society, 1993, 115, 2523-2524.	13.7	26
115	The stereochemical course of thiophosphoryl group transfer catalyzed by adenosine kinase. Biochemical and Biophysical Research Communications, 1980, 94, 1052-1056.	2.1	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.	13.7	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.	4.1	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.	2.5	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.	13.7	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.	13.7	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.	2.5	24
123	Reaction of triose phosphate isomerase with L-glyceraldehyde 3-phosphate and triose 1,2-enediol 3-phosphate. Biochemistry, 1985, 24, 949-953.	2.5	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.	13.7	23
126	Hydrogen Bonding and Catalysis of Solvolysis of 4-Methoxybenzyl Fluoride. Journal of the American Chemical Society, 2002, 124, 9798-9805.	13.7	23

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127	Enzyme Architecture: The Effect of Replacement and Deletion Mutations of Loop 6 on Catalysis by Triosephosphate Isomerase. Biochemistry, 2014, 53, 3486-3501.	2.5	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.	13.7	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.	3.2	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.	13.7	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.	13.7	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.	2.5	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.	13.7	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.	2.5	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.	2.5	21
136	Enabling Role of Ligand-Driven Conformational Changes in Enzyme Evolution. Biochemistry, 2022, 61, 1533-1542.	2.5	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.	13.7	19
138	Claisen-Type Addition of Glycine to Pyridoxal in Water. Journal of the American Chemical Society, 2004, 126, 10538-10539.	13.7	19
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