

John P Richard

List of Publications by Year in descending order

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5179
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#	ARTICLE	IF	CITATIONS
1	The role of remote flavin adenine dinucleotide pieces in the oxidative decarboxylation catalyzed by salicylate hydroxylase. <i>Bioorganic Chemistry</i> , 2022, 119, 105561.	4.1	3
2	Glycerol-3-Phosphate Dehydrogenase: The K120 and K204 Side Chains Define an Oxyanion Hole at the Enzyme Active Site. <i>Biochemistry</i> , 2022, 61, 856-867.	2.5	3
3	Enabling Role of Ligand-Driven Conformational Changes in Enzyme Evolution. <i>Biochemistry</i> , 2022, 61, 1533-1542.	2.5	21
4	Phosphodianion Activation of Enzymes for Catalysis of Central Metabolic Reactions. <i>Journal of the American Chemical Society</i> , 2021, 143, 2694-2698.	13.7	12
5	Linear Free Energy Relationships for Enzymatic Reactions: Fresh Insight from a Venerable Probe. <i>Accounts of Chemical Research</i> , 2021, 54, 2532-2542.	15.6	6
6	Adenylate Kinase-Catalyzed Reaction of AMP in Pieces: Enzyme Activation for Phosphoryl Transfer to Phosphite Dianion. <i>Biochemistry</i> , 2021, 60, 2672-2676.	2.5	6
7	Origin of Free Energy Barriers of Decarboxylation and the Reverse Process of CO ₂ Capture in Dimethylformamide and in Water. <i>Journal of the American Chemical Society</i> , 2021, 143, 137-141.	13.7	16
8	Protein-Ribofuranosyl Interactions Activate Orotidine 5'-Monophosphate Decarboxylase for Catalysis. <i>Biochemistry</i> , 2021, 60, 3362-3373.	2.5	5
9	Modeling the Role of a Flexible Loop and Active Site Side Chains in Hydride Transfer Catalyzed by Glycerol-3-phosphate Dehydrogenase. <i>ACS Catalysis</i> , 2020, 10, 11253-11267.	11.2	14
10	Hydride Transfer Catalyzed by Glycerol Phosphate Dehydrogenase: Recruitment of an Acidic Amino Acid Side Chain to Rescue a Damaged Enzyme. <i>Biochemistry</i> , 2020, 59, 4856-4863.	2.5	6
11	The Organization of Active Site Side Chains of Glycerol-3-phosphate Dehydrogenase Promotes Efficient Enzyme Catalysis and Rescue of Variant Enzymes. <i>Biochemistry</i> , 2020, 59, 1582-1591.	2.5	9
12	Orotidine 5'-Monophosphate Decarboxylase: The Operation of Active Site Chains Within and Across Protein Subunits. <i>Biochemistry</i> , 2020, 59, 2032-2040.	2.5	6
13	Role of the Carboxylate in Enzyme-Catalyzed Decarboxylation of Orotidine 5'-Monophosphate: Transition State Stabilization Dominates Over Ground State Destabilization. <i>Journal of the American Chemical Society</i> , 2019, 141, 13468-13478.	13.7	9
14	Uncovering the Role of Key Active-Site Side Chains in Catalysis: An Extended Brønsted Relationship for Substrate Deprotonation Catalyzed by Wild-Type and Variants of Triosephosphate Isomerase. <i>Journal of the American Chemical Society</i> , 2019, 141, 16139-16150.	13.7	15
15	Protein Flexibility and Stiffness Enable Efficient Enzymatic Catalysis. <i>Journal of the American Chemical Society</i> , 2019, 141, 3320-3331.	13.7	91
16	Human Glycerol 3-Phosphate Dehydrogenase: X-ray Crystal Structures That Guide the Interpretation of Mutagenesis Studies. <i>Biochemistry</i> , 2019, 58, 1061-1073.	2.5	15
17	The role of ligand-gated conformational changes in enzyme catalysis. <i>Biochemical Society Transactions</i> , 2019, 47, 1449-1460.	3.4	12
18	Role of Ligand-Driven Conformational Changes in Enzyme Catalysis: Modeling the Reactivity of the Catalytic Cage of Triosephosphate Isomerase. <i>Journal of the American Chemical Society</i> , 2018, 140, 3854-3857.	13.7	27

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19	Enzyme Architecture: The Role of a Flexible Loop in Activation of Glycerol-3-phosphate Dehydrogenase for Catalysis of Hydride Transfer. <i>Biochemistry</i> , 2018, 57, 3227-3236.	2.5	21
20	Orotidine 5â€²-Monophosphate Decarboxylase: Probing the Limits of the <i>Possible</i> for Enzyme Catalysis. <i>Accounts of Chemical Research</i> , 2018, 51, 960-969.	15.6	31
21	Enzyme Architecture: Breaking Down the Catalytic Cage that Activates Orotidine 5â€²-Monophosphate Decarboxylase for Catalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 17580-17590.	13.7	11
22	Primary Deuterium Kinetic Isotope Effects: A Probe for the Origin of the Rate Acceleration for Hydride Transfer Catalyzed by Glycerol-3-Phosphate Dehydrogenase. <i>Biochemistry</i> , 2018, 57, 4338-4348.	2.5	11
23	Enzyme Architecture: Amino Acid Side-Chains That Function To Optimize the Basicity of the Active Site Glutamate of Triosephosphate Isomerase. <i>Journal of the American Chemical Society</i> , 2018, 140, 8277-8286.	13.7	25
24	Substituent Effects on Carbon Acidity in Aqueous Solution and at Enzyme Active Sites. <i>Synlett</i> , 2017, 28, 1407-1421.	1.8	6
25	Enzyme Architecture: Erection of Active Orotidine 5â€²-Monophosphate Decarboxylase by Substrate-Induced Conformational Changes. <i>Journal of the American Chemical Society</i> , 2017, 139, 16048-16051.	13.7	14
26	A reevaluation of the origin of the rate acceleration for enzyme-catalyzed hydride transfer. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 8856-8866.	2.8	4
27	Enzyme Architecture: Modeling the Operation of a Hydrophobic Clamp in Catalysis by Triosephosphate Isomerase. <i>Journal of the American Chemical Society</i> , 2017, 139, 10514-10525.	13.7	38
28	Primary Deuterium Kinetic Isotope Effects From Product Yields: Rationale, Implementation, and Interpretation. <i>Methods in Enzymology</i> , 2017, 596, 163-177.	1.0	3
29	Enzyme Architecture: Self-Assembly of Enzyme and Substrate Pieces of Glycerol-3-Phosphate Dehydrogenase into a Robust Catalyst of Hydride Transfer. <i>Journal of the American Chemical Society</i> , 2016, 138, 15251-15259.	13.7	19
30	Structureâ€“Reactivity Effects on Intrinsic Primary Kinetic Isotope Effects for Hydride Transfer Catalyzed by Glycerol-3-phosphate Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2016, 138, 14526-14529.	13.7	10
31	Structureâ€“Function Studies of Hydrophobic Residues That Clamp a Basic Glutamate Side Chain during Catalysis by Triosephosphate Isomerase. <i>Biochemistry</i> , 2016, 55, 3036-3047.	2.5	21
32	Formation and mechanism for reactions of ringâ€“substituted phenonium ions in aqueous solution. <i>Journal of Physical Organic Chemistry</i> , 2016, 29, 557-564.	1.9	14
33	Enzyme Architecture: A Startling Role for Asn270 in Glycerol 3-Phosphate Dehydrogenase-Catalyzed Hydride Transfer. <i>Biochemistry</i> , 2016, 55, 1429-1432.	2.5	12
34	The Activating Oxydianion Binding Domain for Enzyme-Catalyzed Proton Transfer, Hydride Transfer, and Decarboxylation: Specificity and Enzyme Architecture. <i>Journal of the American Chemical Society</i> , 2015, 137, 1372-1382.	13.7	45
35	Swainâ€“Scott relationships for nucleophile addition to ring-substituted phenonium ions. <i>Canadian Journal of Chemistry</i> , 2015, 93, 428-434.	1.1	2
36	Rate and Equilibrium Constants for an Enzyme Conformational Change during Catalysis by Orotidine 5â€²-Monophosphate Decarboxylase. <i>Biochemistry</i> , 2015, 54, 4555-4564.	2.5	18

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37	Enzyme Architecture: Optimization of Transition State Stabilization from a Cation-Phosphodianion Pair. Journal of the American Chemical Society, 2015, 137, 5312-5315.	13.7	29
38	Role of Loop-Clamping Side Chains in Catalysis by Triosephosphate Isomerase. Journal of the American Chemical Society, 2015, 137, 15185-15197.	13.7	38
39	Enzyme and coenzyme reaction mechanisms: Editorial overview. Bioorganic Chemistry, 2014, 57, 169-170.	4.1	3
40	Reflections on the catalytic power of a TIM-barrel. Bioorganic Chemistry, 2014, 57, 206-212.	4.1	35
41	Mechanistic imperatives for deprotonation of carbon catalyzed by triosephosphate isomerase: enzyme activation by phosphite dianion,. Journal of Physical Organic Chemistry, 2014, 27, 269-276.	1.9	10
42	Enzyme architecture: on the importance of being in a protein cage. Current Opinion in Chemical Biology, 2014, 21, 1-10.	6.1	91
43	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
44	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
45	Enzyme Architecture: Deconstruction of the Enzyme-Activating Phosphodianion Interactions of Orotidine 5'-Monophosphate Decarboxylase. Journal of the American Chemical Society, 2014, 136, 10156-10165.	13.7	31
46	Role of a Guanidinium Cation-Phosphodianion Pair in Stabilizing the Vinyl Carbanion Intermediate of Orotidine 5'-Phosphate Decarboxylase-Catalyzed Reactions. Biochemistry, 2013, 52, 7500-7511.	2.5	22
47	Specificity in Transition State Binding: The Pauling Model Revisited. Biochemistry, 2013, 52, 2021-2035.	2.5	96
48	Enzymatic Rate Enhancements: A Review and Perspective. Biochemistry, 2013, 52, 2009-2011.	2.5	27
49	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
50	Structural Mutations That Probe the Interactions between the Catalytic and Dianion Activation Sites of Triosephosphate Isomerase. Biochemistry, 2013, 52, 5928-5940.	2.5	29
51	Enzyme Architecture: The Activating Oxydianion Binding Domain for Orotidine 5'-Monophosphate Decarboxylase. Journal of the American Chemical Society, 2013, 135, 18343-18346.	13.7	15
52	Catalysis by Orotidine 5'-Monophosphate Decarboxylase: Effect of 5-Fluoro and 4'-Substituents on the Decarboxylation of Two-Part Substrates. Biochemistry, 2013, 52, 537-546.	2.5	24
53	Substituent effects on the formation and nucleophile selectivity of ring-substituted phenonium ions in aqueous solution. Journal of Physical Organic Chemistry, 2013, 26, 970-976.	1.9	8
54	Conformational Changes in Orotidine 5'-Monophosphate Decarboxylase: A Structure-Based Explanation for How the 5'-Phosphate Group Activates the Enzyme. Biochemistry, 2012, 51, 8665-8678.	2.5	13

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55	Isopentenyl Diphosphate Isomerase Catalyzed Reactions in D ₂ O: Product Release Limits the Rate of This Sluggish Enzyme-Catalyzed Reaction. <i>Journal of the American Chemical Society</i> , 2012, 134, 6568-6570.	13.7	17
56	Mechanism for Activation of Triosephosphate Isomerase by Phosphite Dianion: The Role of a Hydrophobic Clamp. <i>Journal of the American Chemical Society</i> , 2012, 134, 10286-10298.	13.7	35
57	Proton Transfer from C-6 of Uridine 5'-Monophosphate Catalyzed by Orotidine 5'-Monophosphate Decarboxylase: Formation and Stability of a Vinyl Carbanion Intermediate and the Effect of a 5-Fluoro Substituent. <i>Journal of the American Chemical Society</i> , 2012, 134, 14580-14594.	13.7	37
58	A Paradigm for Enzyme-Catalyzed Proton Transfer at Carbon: Triosephosphate Isomerase. <i>Biochemistry</i> , 2012, 51, 2652-2661.	2.5	69
59	Orotidine 5'-Monophosphate Decarboxylase: Transition State Stabilization from Remote Protein-Phosphodianion Interactions. <i>Biochemistry</i> , 2012, 51, 4630-4632.	2.5	39
60	Wildtype and Engineered Monomeric Triosephosphate Isomerase from <i>Trypanosoma brucei</i> : Partitioning of Reaction Intermediates in D ₂ O and Activation by Phosphite Dianion. <i>Biochemistry</i> , 2011, 50, 5767-5779.	2.5	25
61	Binding Energy and Catalysis by Xylose Isomerase: Kinetic, Product, and X-ray Crystallographic Analysis of Enzyme-Catalyzed Isomerization of D-Glyceraldehyde. <i>Biochemistry</i> , 2011, 50, 10170-10181.	2.5	15
62	Substituent Effects on Electrophilic Catalysis by the Carbonyl Group: Anatomy of the Rate Acceleration for PLP-Catalyzed Deprotonation of Glycine. <i>Journal of the American Chemical Society</i> , 2011, 133, 3173-3183.	13.7	40
63	Formation and Stability of the 4-Methoxyphenonium Ion in Aqueous Solution. <i>Journal of Organic Chemistry</i> , 2011, 76, 9568-9571.	3.2	8
64	OMP Decarboxylase: Phosphodianion Binding Energy Is Used To Stabilize a Vinyl Carbanion Intermediate. <i>Journal of the American Chemical Society</i> , 2011, 133, 6545-6548.	13.7	41
65	The generation and reactions of quinone methides. <i>Advances in Physical Organic Chemistry</i> , 2011, 45, 39-91.	0.5	114
66	Mechanism for Activation of Triosephosphate Isomerase by Phosphite Dianion: The Role of a Ligand-Driven Conformational Change. <i>Journal of the American Chemical Society</i> , 2011, 133, 16428-16431.	13.7	39
67	The PLP cofactor: Lessons from studies on model reactions. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011, 1814, 1419-1425.	2.3	14
68	William Platt Jencks. 15 August 1927 - 3 January 2007. <i>Biographical Memoirs of Fellows of the Royal Society</i> , 2011, 57, 179-188.	0.1	0
69	Enzymatic catalysis of proton transfer and decarboxylation reactions. <i>Pure and Applied Chemistry</i> , 2011, 83, 1555-1565.	1.9	6
70	Biographical Essay: A. Jerry Kresge. <i>Advances in Physical Organic Chemistry</i> , 2010, 44, xiii-xxiii.	0.5	0
71	A role for flexible loops in enzyme catalysis. <i>Current Opinion in Structural Biology</i> , 2010, 20, 702-710.	5.7	149
72	Dynamics for reactions of ion pairs in aqueous solution: reactivity of tosylate anion ion paired with the highly destabilized 4-(4-methylphenyl)-2,2,2-trifluoroethyl carbocation. <i>Journal of Physical Organic Chemistry</i> , 2010, 23, 730-734.	1.9	9

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73	Role of Lys-12 in Catalysis by Triosephosphate Isomerase: A Two-Part Substrate Approach. <i>Biochemistry</i> , 2010, 49, 5377-5389.	2.5	57
74	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. <i>Journal of the American Chemical Society</i> , 2010, 132, 7018-7024.	13.7	24
75	Bovine Serum Albumin-Catalyzed Deprotonation of [1- ¹³ C]Glycolaldehyde: Protein Reactivity toward Deprotonation of the Î±-Hydroxy Î±-Carbonyl Carbon. <i>Biochemistry</i> , 2010, 49, 7704-7708.	2.5	10
76	Rescue of K12G Triosephosphate Isomerase by Ammonium Cations: The Reaction of an Enzyme in Pieces. <i>Journal of the American Chemical Society</i> , 2010, 132, 13525-13532.	13.7	36
77	Activation of R235A Mutant Orotidine 5â€²-Monophosphate Decarboxylase by the Guanidinium Cation: Effective Molarity of the Cationic Side Chain of Arg-235. <i>Biochemistry</i> , 2010, 49, 824-826.	2.5	41
78	Conformational Changes in Orotidine 5â€²-Monophosphate Decarboxylase: â€œRemoteâ€•Residues That Stabilize the Active Conformation. <i>Biochemistry</i> , 2010, 49, 3514-3516.	2.5	17
79	Hydron Transfer Catalyzed by Triosephosphate Isomerase. Products of the Direct and Phosphite-Activated Isomerization of [1- ¹³ C]-Glycolaldehyde in D ₂ O. <i>Biochemistry</i> , 2009, 48, 5769-5778.	2.5	54
80	Pyridoxal 5â€²-phosphate: electrophilic catalyst extraordinaire. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 475-483.	6.1	61
81	Punching Holes in an Enzyme. <i>Chemistry and Biology</i> , 2009, 16, 915-917.	6.0	0
82	Structureâ€”Reactivity Effects on Primary Deuterium Isotope Effects on Protonation of Ring-Substituted Î±-Methoxystyrenes. <i>Journal of the American Chemical Society</i> , 2009, 131, 13952-13962.	13.7	17
83	Mechanism of the Orotidine 5â€²-Monophosphate Decarboxylase-Catalyzed Reaction: Effect of Solvent Viscosity on Kinetic Constants. <i>Biochemistry</i> , 2009, 48, 5510-5517.	2.5	34
84	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. <i>Biochemistry</i> , 2009, 48, 8006-8013.	2.5	32
85	Theoretical Analysis of Kinetic Isotope Effects on Proton Transfer Reactions between Substituted Î±-Methoxystyrenes and Substituted Acetic Acids. <i>Journal of the American Chemical Society</i> , 2009, 131, 13963-13971.	13.7	30
86	Mechanism of the Orotidine 5â€²-Monophosphate Decarboxylase-Catalyzed Reaction: Evidence for Substrate Destabilization ^{sup} . <i>Biochemistry</i> , 2009, 48, 5518-5531.	2.5	58
87	Substituent Effects on the Thermodynamic Stability of Imines Formed from Glycine and Aromatic Aldehydes: Implications for the Catalytic Activity of Pyridoxal-5â€²-phosphate. <i>Journal of the American Chemical Society</i> , 2009, 131, 15815-15824.	13.7	58
88	Structureâ€”reactivity relationships for <i>E. coli</i> Î²-galactosidase (<i>E. coli</i> , lac Z): a second derivative effect on ^{nuc} for addition of alkyl alcohols to an oxocarbenium ion reaction intermediate. <i>Journal of Physical Organic Chemistry</i> , 2008, 21, 531-537.	1.9	5
89	Alanine-dependent reactions of 5â€²-deoxy pyridoxal in water. <i>Bioorganic Chemistry</i> , 2008, 36, 295-298.	4.1	5
90	Slow proton transfer from the hydrogen-labelled carboxylic acid side chain (Glu-165) of triosephosphate isomerase to imidazole buffer in D ₂ O. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 391-396.	2.8	12

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91	Phosphate Binding Energy and Catalysis by Small and Large Molecules. <i>Accounts of Chemical Research</i> , 2008, 41, 539-548.	15.6	105
92	Formation and Stability of a Vinyl Carbanion at the Active Site of Orotidine 5'-Monophosphate Decarboxylase: A p <i>K_a</i> of the C-6 Proton of Enzyme-Bound UMP. <i>Journal of the American Chemical Society</i> , 2008, 130, 1574-1575.	13.7	79
93	Altered Transition State for the Reaction of an RNA Model Catalyzed by a Dinuclear Zinc(II) Catalyst. <i>Journal of the American Chemical Society</i> , 2008, 130, 17858-17866.	13.7	59
94	A Substrate in Pieces: Allosteric Activation of Glycerol 3-Phosphate Dehydrogenase (NAD ⁺) by Phosphite Dianion. <i>Biochemistry</i> , 2008, 47, 4575-4582.	2.5	65
95	Glycine Enolates: The Effect of Formation of Iminium Ions to Simple Ketones on \pm -Amino Carbon Acidity and a Comparison with Pyridoxal Iminium Ions. <i>Journal of the American Chemical Society</i> , 2008, 130, 2041-2050.	13.7	46
96	Dissecting the Total Transition State Stabilization Provided by Amino Acid Side Chains at Orotidine 5'-Monophosphate Decarboxylase: A Two-Part Substrate Approach. <i>Biochemistry</i> , 2008, 47, 7785-7787.	2.5	39
97	Restoring a Metabolic Pathway. <i>ACS Chemical Biology</i> , 2008, 3, 605-607.	3.4	8
98	Formation and Stability of Mononuclear and Dinuclear Eu(III) Complexes and Their Catalytic Reactivity Toward Cleavage of an RNA Analog. <i>Inorganic Chemistry</i> , 2007, 46, 7169-7177.	4.0	44
99	Rational Design of Transition-State Analogues as Potent Enzyme Inhibitors with Therapeutic Applications. <i>ACS Chemical Biology</i> , 2007, 2, 711-714.	3.4	10
100	A minimalist approach to understanding the efficiency of mononuclear Zn(ii) complexes as catalysts of cleavage of an RNA analog. <i>Dalton Transactions</i> , 2007, , 3804.	3.3	35
101	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. <i>Dalton Transactions</i> , 2007, , 5171.	3.3	27
102	Covalent Catalysis by Pyridoxal: Evaluation of the Effect of the Cofactor on the Carbon Acidity of Glycine. <i>Journal of the American Chemical Society</i> , 2007, 129, 3013-3021.	13.7	51
103	Enhancement of a Lewis Acid-Base Interaction via Solvation: Ammonia Molecules and the Benzene Radical Cation. <i>Journal of Physical Chemistry A</i> , 2007, 111, 6068-6076.	2.5	11
104	Product Deuterium Isotope Effect for Orotidine 5'-Monophosphate Decarboxylase: Evidence for the Existence of a Short-Lived Carbanion Intermediate. <i>Journal of the American Chemical Society</i> , 2007, 129, 12946-12947.	13.7	44
105	Enzymatic Catalysis of Proton Transfer at Carbon: Activation of Triosephosphate Isomerase by Phosphite Dianion. <i>Biochemistry</i> , 2007, 46, 5841-5854.	2.5	96
106	A Marcus Treatment of Rate Constants for Protonation of Ring-Substituted \pm -Methoxystyrenes: Intrinsic Reaction Barriers and the Shape of the Reaction Coordinate. <i>Journal of the American Chemical Society</i> , 2007, 129, 6952-6961.	13.7	37
107	A Simple Method To Determine Kinetic Deuterium Isotope Effects Provides Evidence that Proton Transfer to Carbon Proceeds over and Not through the Reaction Barrier. <i>Journal of the American Chemical Society</i> , 2007, 129, 10330-10331.	13.7	17
108	A transition state analog for phosphate diester cleavage catalyzed by a small enzyme-like metal ion complex. <i>Bioorganic Chemistry</i> , 2007, 35, 366-374.	4.1	25

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109	The ACS division of Biological Chemistry. IUBMB Life, 2007, 59, 224-225.	3.4	0
110	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.	13.7	14
111	Claisen-Type Addition of Glycine to a Pyridoxal Iminium Ion in Water. Journal of Organic Chemistry, 2006, 71, 7094-7096.	3.2	10
112	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
113	Reactions of Ion-Pair Intermediates of Solvolysis. ChemInform, 2005, 36, no.	0.0	0
114	Reactions of ion-pair intermediates of solvolysis. Chemical Record, 2005, 5, 94-106.	5.8	15
115	Crossing the Borderline between SN1 and SN2 Nucleophilic Substitution at Aliphatic Carbon. , 2005, , 41-68.		3
116	Ketonization of the remarkably strongly acidic elongated enol generated by flash photolytic decarboxylation of p-benzoylphenylacetic acid in aqueous solution. Chemical Communications, 2005, , 4231.	4.1	5
117	Activation of Orotidine 5'-Monophosphate Decarboxylase by Phosphite Dianion: The Whole Substrate is the Sum of Two Parts. Journal of the American Chemical Society, 2005, 127, 15708-15709.	13.7	92
118	Formation and stability of organic zwitterions — The carbon acid pKas of the trimethylsulfonium and tetramethylphosphonium cations in water. Canadian Journal of Chemistry, 2005, 83, 1536-1542.	1.1	9
119	Carbon acidity of the π -pyridinium carbon of a pyridoxamine analog. Organic and Biomolecular Chemistry, 2005, 3, 2145.	2.8	16
120	Hydron Transfer Catalyzed by Triosephosphate Isomerase. Products of Isomerization of Dihydroxyacetone Phosphate in D ₂ O. Biochemistry, 2005, 44, 2622-2631.	2.5	44
121	Ground-State, Transition-State, and Metal-Cation Effects of the 2-Hydroxyl Group on β -D-Galactopyranosyl Transfer Catalyzed by β -Galactosidase (Escherichia coli, lac Z). Biochemistry, 2005, 44, 11872-11881.	2.5	8
122	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
123	Hydron Transfer Catalyzed by Triosephosphate Isomerase. Products of Isomerization of (R)-Glyceraldehyde 3-Phosphate in D ₂ O. Biochemistry, 2005, 44, 2610-2621.	2.5	55
124	A Comparison of the Electrophilic Reactivities of Zn ²⁺ and Acetic Acid as Catalysts of Enolization: Imperatives for Enzymatic Catalysis of Proton Transfer at Carbon. Journal of the American Chemical Society, 2004, 126, 5164-5173.	13.7	15
125	Editorial: Biological applications of physical organic chemistry. Journal of Physical Organic Chemistry, 2004, 17, 459-460.	1.9	0
126	On the importance of being zwitterionic: enzymatic catalysis of decarboxylation and deprotonation of cationic carbon. Bioorganic Chemistry, 2004, 32, 354-366.	4.1	77

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127	Dynamics for the reactions of ion pair intermediates of solvolysis. <i>Advances in Physical Organic Chemistry</i> , 2004, 39, 1-26.	0.5	24
128	Scrambling of Oxygen-18 during the α -Solvolysis of 1-(3-Nitrophenyl)ethyl Tosylate. <i>Organic Letters</i> , 2004, 6, 3633-3636.	4.6	12
129	Claisen-Type Addition of Glycine to Pyridoxal in Water. <i>Journal of the American Chemical Society</i> , 2004, 126, 10538-10539.	13.7	19
130	Formation and Stability of N-Heterocyclic Carbenes in Water: The Carbon Acid pKa of Imidazolium Cations in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2004, 126, 4366-4374.	13.7	476
131	Structure-Activity Studies on the Cleavage of an RNA Analogue by a Potent Dinuclear Metal Ion Catalyst: Effect of Changing the Metal Ion. <i>Inorganic Chemistry</i> , 2004, 43, 1743-1750.	4.0	68
132	Kinetic Studies of RNA Cleavage by Lanthanide(III) Macrocyclic Complexes. <i>Bulletin of the Korean Chemical Society</i> , 2004, 25, 403-406.	1.9	3
133	Mechanisms Complex biological processes and their central chemical events. <i>Current Opinion in Chemical Biology</i> , 2003, 7, 525-527.	6.1	1
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