

Ronald T Raines

List of Publications by Year in descending order

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417
papers

33,593
citations

3721

89
h-index

5101

166
g-index

440
all docs

440
docs citations

440
times ranked

29934
citing authors

#	ARTICLE	IF	CITATIONS
1	Collagen Structure and Stability. Annual Review of Biochemistry, 2009, 78, 929-958.	5.0	2,705
2	Simple Chemical Transformation of Lignocellulosic Biomass into Furans for Fuels and Chemicals. Journal of the American Chemical Society, 2009, 131, 1979-1985.	6.6	1,343
3	Bright Ideas for Chemical Biology. ACS Chemical Biology, 2008, 3, 142-155.	1.6	1,085
4	Ribonuclease A. Chemical Reviews, 1998, 98, 1045-1066.	23.0	940
5	Collagen-based biomaterials for wound healing. Biopolymers, 2014, 101, 821-833.	1.2	731
6	Hydrolytic Stability of Hydrazones and Oximes. Angewandte Chemie - International Edition, 2008, 47, 7523-7526.	7.2	709
7	Prolyl 4-hydroxylase. Critical Reviews in Biochemistry and Molecular Biology, 2010, 45, 106-124.	2.3	514
8	Staudinger Ligation: A Peptide from a Thioester and Azide. Organic Letters, 2000, 2, 1939-1941.	2.4	482
9	Code for collagen's stability deciphered. Nature, 1998, 392, 666-667.	13.7	479
10	Fermentable sugars by chemical hydrolysis of biomass. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4516-4521.	3.3	429
11	Conformational Stability of Collagen Relies on a Stereoelectronic Effect. Journal of the American Chemical Society, 2001, 123, 777-778.	6.6	414
12	Bright Building Blocks for Chemical Biology. ACS Chemical Biology, 2014, 9, 855-866.	1.6	413
13	Pathway for Polyarginine Entry into Mammalian Cells. Biochemistry, 2004, 43, 2438-2444.	1.2	347
14	The π - π^* Interaction. Accounts of Chemical Research, 2017, 50, 1838-1846.	7.6	340
15	π - π^* interactions in proteins. Nature Chemical Biology, 2010, 6, 615-620.	3.9	323
16	Collagen Stability: Insights from NMR Spectroscopic and Hybrid Density Functional Computational Investigations of the Effect of Electronegative Substituents on Prolyl Ring Conformations. Journal of the American Chemical Society, 2002, 124, 2497-2505.	6.6	318
17	Advances in Bioconjugation. Current Organic Chemistry, 2010, 14, 138-147.	0.9	315
18	Chemical Synthesis of Proteins. Annual Review of Biophysics and Biomolecular Structure, 2005, 34, 91-118.	18.3	290

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19	Self-assembly of synthetic collagen triple helices. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3028-3033.	3.3	281
20	Triosephosphate isomerase catalysis is diffusion controlled. Biochemistry, 1988, 27, 1158-1165.	1.2	277
21	Selenocysteine in Native Chemical Ligation and Expressed Protein Ligation. Journal of the American Chemical Society, 2001, 123, 5140-5141.	6.6	263
22	Nature of Amide Carbonyl π -Carbonyl Interactions in Proteins. Journal of the American Chemical Society, 2009, 131, 7244-7246.	6.6	260
23	The CXXC Motif: A Rheostat in the Active Site. Biochemistry, 1997, 36, 4061-4066.	1.2	255
24	Increasing the secretory capacity of <i>Saccharomyces cerevisiae</i> for production of single-chain antibody fragments. Nature Biotechnology, 1998, 16, 773-777.	9.4	244
25	An electronic effect on protein structure. Protein Science, 2003, 12, 1188-1194.	3.1	243
26	A hyperstable collagen mimic. Chemistry and Biology, 1999, 6, 63-70.	6.2	241
27	High-Yielding Staudinger Ligation of a Phosphinothioester and Azide To Form a Peptide. Organic Letters, 2001, 3, 9-12.	2.4	234
28	Synthesis of Furfural from Xylose and Xylan. ChemSusChem, 2010, 3, 1268-1272.	3.6	230
29	Site-Specific Protein Immobilization by Staudinger Ligation. Journal of the American Chemical Society, 2003, 125, 11790-11791.	6.6	228
30	Inductive Effects on the Energetics of Prolyl Peptide Bond Isomerization: Implications for Collagen Folding and Stability. Journal of the American Chemical Society, 1996, 118, 12261-12266.	6.6	226
31	Translocation of a β -Peptide Across Cell Membranes. Journal of the American Chemical Society, 2002, 124, 368-369.	6.6	226
32	Insights on the conformational stability of collagen. Natural Product Reports, 2002, 19, 49-59.	5.2	213
33	Boronate-Mediated Biologic Delivery. Journal of the American Chemical Society, 2012, 134, 3631-3634.	6.6	208
34	Biomass to Furanics: Renewable Routes to Chemicals and Fuels. ACS Sustainable Chemistry and Engineering, 2015, 3, 2591-2605.	3.2	207
35	An Evaluation of Peptide-Bond Isosteres. ChemBioChem, 2011, 12, 1801-1807.	1.3	205
36	Protein Prosthesis: 1,5-Disubstituted [1,2,3]triazoles as <i>cis</i> -Peptide Bond Surrogates. Journal of the American Chemical Society, 2007, 129, 12670-12671.	6.6	196

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37	The Essential Function of Protein-disulfide Isomerase Is to Unscramble Non-native Disulfide Bonds. <i>Journal of Biological Chemistry</i> , 1995, 270, 28006-28009.	1.6	192
38	Fluorogenic Label for Biomolecular Imaging. <i>ACS Chemical Biology</i> , 2006, 1, 252-260.	1.6	183
39	Cancer chemotherapy "ribonucleases to the rescue. <i>Chemistry and Biology</i> , 2001, 8, 405-413.	6.2	181
40	Stereoelectronic effects on polyproline conformation. <i>Protein Science</i> , 2006, 15, 74-83.	3.1	181
41	Ribonuclease S-peptide as a carrier in fusion proteins. <i>Protein Science</i> , 1993, 2, 348-356.	3.1	178
42	π - π^* Interactions of Amides and Thioamides: Implications for Protein Stability. <i>Journal of the American Chemical Society</i> , 2013, 135, 7843-7846.	6.6	175
43	Stereoelectronic Effects on Collagen Stability: The Dichotomy of 4-Fluoroproline Diastereomers. <i>Journal of the American Chemical Society</i> , 2003, 125, 9262-9263.	6.6	174
44	Ribonuclease Inhibitor: Structure and Function. <i>Progress in Molecular Biology and Translational Science</i> , 2005, 80, 349-374.	1.9	171
45	Mechanistic insights on the conversion of sugars into 5-hydroxymethylfurfural. <i>Energy and Environmental Science</i> , 2010, 3, 765.	15.6	170
46	Microscopic pKa Values of <i>Escherichia coli</i> Thioredoxin. <i>Biochemistry</i> , 1997, 36, 14985-14991.	1.2	165
47	Diazo Compounds: Versatile Tools for Chemical Biology. <i>ACS Chemical Biology</i> , 2016, 11, 3233-3244.	1.6	164
48	Evolutionary optimization of the catalytic effectiveness of an enzyme. <i>Biochemistry</i> , 1989, 28, 9293-9305.	1.2	163
49	Bovine Pancreatic Ribonuclease: Fifty Years of the First Enzymatic Reaction Mechanism. <i>Biochemistry</i> , 2011, 50, 7835-7841.	1.2	163
50	Reaction Mechanism and Kinetics of the Traceless Staudinger Ligation. <i>Journal of the American Chemical Society</i> , 2006, 128, 8820-8828.	6.6	157
51	Stereoelectronic and steric effects in side chains preorganize a protein main chain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 559-564.	3.3	154
52	Stereoelectronic and Steric Effects in the Collagen Triple Helix: Toward a Code for Strand Association. <i>Journal of the American Chemical Society</i> , 2005, 127, 15923-15932.	6.6	143
53	Value of General Acid-Base Catalysis to Ribonuclease A. <i>Journal of the American Chemical Society</i> , 1994, 116, 5467-5468.	6.6	140
54	Effect of 3-Hydroxyproline Residues on Collagen Stability. <i>Journal of the American Chemical Society</i> , 2003, 125, 6422-6427.	6.6	138

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55	Tuning the p <i>K_a</i> of Fluorescein to Optimize Binding Assays. <i>Analytical Chemistry</i> , 2007, 79, 6775-6782.	3.2	138
56	Contribution of disulfide bonds to the conformational stability and catalytic activity of ribonuclease A. <i>FEBS Journal</i> , 2000, 267, 566-572.	0.2	136
57	Structural Determinants of Enzymic Processivity. <i>Biochemistry</i> , 1994, 33, 6031-6037.	1.2	133
58	Protein Assembly by Orthogonal Chemical Ligation Methods. <i>Journal of the American Chemical Society</i> , 2003, 125, 5268-5269.	6.6	133
59	Reciprocity of Steric and Stereoelectronic Effects in the Collagen Triple Helix. <i>Journal of the American Chemical Society</i> , 2006, 128, 8112-8113.	6.6	131
60	Inhibition of Human Pancreatic Ribonuclease by the Human Ribonuclease Inhibitor Protein. <i>Journal of Molecular Biology</i> , 2007, 368, 434-449.	2.0	130
61	Enzyme-Activated Fluorogenic Probes for Live-Cell and <i>in Vivo</i> Imaging. <i>ACS Chemical Biology</i> , 2018, 13, 1810-1823.	1.6	130
62	Stabilization of the Collagen Triple Helix by <i>O</i> -Methylation of Hydroxyproline Residues. <i>Journal of the American Chemical Society</i> , 2008, 130, 2952-2953.	6.6	129
63	Amide-Amide and Amide-Water Hydrogen Bonds: Implications for Protein Folding and Stability. <i>Journal of the American Chemical Society</i> , 1994, 116, 2149-2150.	6.6	126
64	Energetics of Catalysis by Ribonucleases: Fate of the 2',3'-Cyclic Phosphodiester Intermediate. <i>Biochemistry</i> , 1994, 33, 7408-7414.	1.2	121
65	Energetics of an π - π^* Interaction that Impacts Protein Structure. <i>Organic Letters</i> , 2006, 8, 4695-4697.	2.4	121
66	Interplay of Hydrogen Bonds and π - π^* Interactions in Proteins. <i>Journal of the American Chemical Society</i> , 2013, 135, 18682-18688.	6.6	121
67	π -Pauli Repulsion Are Antagonistic for Protein Stability. <i>Journal of the American Chemical Society</i> , 2010, 132, 6651-6653.	6.6	120
68	Olefin metathesis for chemical biology. <i>Current Opinion in Chemical Biology</i> , 2008, 12, 767-773.	2.8	119
69	Protein Prosthesis: A Semisynthetic Enzyme with a β -Peptide Reverse Turn. <i>Journal of the American Chemical Society</i> , 2002, 124, 8522-8523.	6.6	117
70	Reaction energetics of a mutant triose phosphate isomerase in which the active-site glutamate has been changed to aspartate. <i>Biochemistry</i> , 1986, 25, 7142-7154.	1.2	116
71	Ribonuclease A: Revealing Structure-Function Relationships with Semisynthesis. <i>Journal of the American Chemical Society</i> , 1995, 117, 8057-8060.	6.6	115
72	Inductive effects on the structure of proline residues. <i>International Journal of Peptide and Protein Research</i> , 1994, 44, 262-269.	0.1	115

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73	Secondary Forces in Protein Folding. ACS Chemical Biology, 2019, 14, 1677-1686.	1.6	115
74	Ribonuclease inhibitor as an intracellular sentry. Nucleic Acids Research, 2003, 31, 1024-1032.	6.5	114
75	Cytosolic Delivery of Proteins by Bioreversible Esterification. Journal of the American Chemical Society, 2017, 139, 14396-14398.	6.6	114
76	General Acid/Base Catalysis in the Active Site of Escherichia coli Thioredoxin. Biochemistry, 1997, 36, 15810-15816.	1.2	113
77	Trimethyl lock: a trigger for molecular release in chemistry, biology, and pharmacology. Chemical Science, 2012, 3, 2412.	3.7	113
78	Engineering ribonuclease A: production, purification and characterization of wild-type enzyme and mutants at Gln11. Protein Engineering, Design and Selection, 1995, 8, 261-273.	1.0	112
79	Native disulfide bond formation in proteins. Current Opinion in Chemical Biology, 2000, 4, 533-539.	2.8	110
80	Solvent effects on the energetics of prolyl peptide bond isomerization. Journal of the American Chemical Society, 1992, 114, 5437-5439.	6.6	109
81	A Potent, Versatile Disulfide-Reducing Agent from Aspartic Acid. Journal of the American Chemical Society, 2012, 134, 4057-4059.	6.6	106
82	Imaging the Binding Ability of Proteins Immobilized on Surfaces with Different Orientations by Using Liquid Crystals. Journal of the American Chemical Society, 2004, 126, 9024-9032.	6.6	105
83	Polyarginine as a multifunctional fusion tag. Protein Science, 2009, 14, 1538-1544.	3.1	103
84	Latent Fluorophore Based on the Trimethyl Lock. Journal of the American Chemical Society, 2005, 127, 1652-1653.	6.6	99
85	Secretory ribonucleases are internalized by a dynamin-independent endocytic pathway. Journal of Cell Science, 2003, 116, 313-324.	1.2	98
86	Staudinger Ligation of α -Azido Acids Retains Stereochemistry. Journal of Organic Chemistry, 2002, 67, 4993-4996.	1.7	96
87	Olefin Metathesis in Homogeneous Aqueous Media Catalyzed by Conventional Ruthenium Catalysts. Organic Letters, 2007, 9, 4885-4888.	2.4	96
88	Ribonucleases as Novel Chemotherapeutics. BioDrugs, 2008, 22, 53-58.	2.2	96
89	Chemoselectivity in Chemical Biology: Acyl Transfer Reactions with Sulfur and Selenium. Accounts of Chemical Research, 2011, 44, 752-761.	7.6	95
90	Water-Soluble Phosphinothiols for Traceless Staudinger Ligation and Integration with Expressed Protein Ligation. Journal of the American Chemical Society, 2007, 129, 11421-11430.	6.6	94

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91	Evasion of Ribonuclease Inhibitor as a Determinant of Ribonuclease Cytotoxicity. <i>Current Pharmaceutical Biotechnology</i> , 2008, 9, 185-199.	0.9	93
92	A Phosphine-Mediated Conversion of Azides into Diazo Compounds. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2359-2363.	7.2	93
93	Intimate Interactions with Carbonyl Groups: Dipole-Dipole or π - π ?. <i>Journal of Organic Chemistry</i> , 2013, 78, 2099-2103.	1.7	91
94	A prevalent intraresidue hydrogen bond stabilizes proteins. <i>Nature Chemical Biology</i> , 2016, 12, 1084-1088.	3.9	91
95	Kinetics and thermodynamics of the interaction of 5-fluoro-2'-deoxyuridylate with thymidylate synthase. <i>Biochemistry</i> , 1987, 26, 8606-8613.	1.2	90
96	Mechanism of Ribonuclease Cytotoxicity. <i>Journal of Biological Chemistry</i> , 1995, 270, 31097-31102.	1.6	88
97	Limits to Catalysis by Ribonuclease A. <i>Bioorganic Chemistry</i> , 1995, 23, 471-481.	2.0	87
98	The CXC Motif: A Functional Mimic of Protein Disulfide Isomerase. <i>Biochemistry</i> , 2003, 42, 5387-5394.	1.2	87
99	Conformational Stability Is a Determinant of Ribonuclease A Cytotoxicity. <i>Journal of Biological Chemistry</i> , 2000, 275, 17463-17467.	1.6	86
100	Identifying Latent Enzyme Activities: Substrate Ambiguity within Modern Bacterial Sugar Kinases. <i>Biochemistry</i> , 2004, 43, 6387-6392.	1.2	86
101	Synthesis and utility of fluorogenic acetoxymethyl ethers. <i>Chemical Science</i> , 2011, 2, 521-530.	3.7	82
102	Signatures of π - π interactions in proteins. <i>Protein Science</i> , 2014, 23, 284-288.	3.1	82
103	Quantitative Analysis of the Effect of Salt Concentration on Enzymatic Catalysis. <i>Journal of the American Chemical Society</i> , 2001, 123, 11472-11479.	6.6	80
104	Peptide Bond Isosteres: Ester or (E)-Alkene in the Backbone of the Collagen Triple Helix. <i>Organic Letters</i> , 2005, 7, 2619-2622.	2.4	80
105	A small-molecule catalyst of protein folding in vitro and in vivo. <i>Chemistry and Biology</i> , 1999, 6, 871-879.	6.2	79
106	Endowing Human Pancreatic Ribonuclease with Toxicity for Cancer Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 43095-43102.	1.6	78
107	Semisynthesis and Characterization of Mammalian Thioredoxin Reductase. <i>Biochemistry</i> , 2006, 45, 5158-5170.	1.2	78
108	Salicylaldimine Ruthenium Alkylidene Complexes: Metathesis Catalysts Tuned for Protic Solvents. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 395-404.	2.1	77

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109	Catalysis of imido group hydrolysis in a maleimide conjugate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 6286-6289.	1.0	77
110	His-Asp Catalytic Dyad of Ribonuclease A: Structure and Function of the Wild-Type, D121N, and D121A Enzymes. <i>Biochemistry</i> , 1998, 37, 8886-8898.	1.2	76
111	4-Chloroprolines: Synthesis, conformational analysis, and effect on the collagen triple helix. <i>Biopolymers</i> , 2008, 89, 443-454.	1.2	76
112	Coulombic Effects of Remote Subsites on the Active Site of Ribonuclease A. <i>Biochemistry</i> , 1998, 37, 17386-17401.	1.2	75
113	Arginine Grafting to Endow Cell Permeability. <i>ACS Chemical Biology</i> , 2007, 2, 167-170.	1.6	75
114	Peptide tessellation yields micrometre-scale collagen triple helices. <i>Nature Chemistry</i> , 2016, 8, 1008-1014.	6.6	75
115	Diazo compounds for the bioreversible esterification of proteins. <i>Chemical Science</i> , 2015, 6, 752-755.	3.7	74
116	Organocatalytic conversion of cellulose into a platform chemical. <i>Chemical Science</i> , 2013, 4, 196-199.	3.7	73
117	General Method for Site-Specific Protein Immobilization by Staudinger Ligation. <i>Bioconjugate Chemistry</i> , 2007, 18, 1064-1069.	1.8	72
118	Optimized Diazo Scaffold for Protein Esterification. <i>Organic Letters</i> , 2015, 17, 2358-2361.	2.4	72
119	Diazo Groups Endure Metabolism and Enable Chemoselectivity in Cellulo. <i>Journal of the American Chemical Society</i> , 2015, 137, 2412-2415.	6.6	69
120	Analysis of Receptor-Ligand Interactions. <i>Journal of Chemical Education</i> , 1995, 72, 119.	1.1	67
121	Structural Basis for the Biological Activities of Bovine Seminal Ribonuclease. <i>Journal of Biological Chemistry</i> , 1995, 270, 10525-10530.	1.6	66
122	Contribution of Active-Site Residues to the Function of Onconase, a Ribonuclease with Antitumoral Activity. <i>Biochemistry</i> , 2003, 42, 11443-11450.	1.2	66
123	Thioamides in the collagen triple helix. <i>Chemical Communications</i> , 2015, 51, 9624-9627.	2.2	66
124	The Aberrance of the 4S Diastereomer of 4-Hydroxyproline. <i>Journal of the American Chemical Society</i> , 2010, 132, 10857-10865.	6.6	65
125	Catalysis of Protein Folding by Protein Disulfide Isomerase and Small-Molecule Mimics. <i>Antioxidants and Redox Signaling</i> , 2003, 5, 413-424.	2.5	64
126	An π - π^* Interaction in Aspirin: Implications for Structure and Reactivity. <i>Journal of Organic Chemistry</i> , 2011, 76, 7933-7937.	1.7	64

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127	Diazo compounds as highly tunable reactants in 1,3-dipolar cycloaddition reactions with cycloalkynes. <i>Chemical Science</i> , 2012, 3, 3237.	3.7	64
128	Genetic selection for dissociative inhibitors of designated protein-protein interactions. <i>Nature Biotechnology</i> , 2000, 18, 847-851.	9.4	63
129	Protein Prosthesis: A Nonnatural Residue Accelerates Folding and Increases Stability. <i>Journal of the American Chemical Society</i> , 2003, 125, 7500-7501.	6.6	63
130	Conversion of biomass to sugars via ionic liquid hydrolysis: process synthesis and economic evaluation. <i>Biofuels, Bioproducts and Biorefining</i> , 2012, 6, 444-452.	1.9	63
131	Potent Inhibition of Ribonuclease A by Oligo(vinylsulfonic Acid). <i>Journal of Biological Chemistry</i> , 2003, 278, 20934-20938.	1.6	62
132	Conversion of Fructose into 5-(Hydroxymethyl)furfural in Sulfolane. <i>ChemSusChem</i> , 2011, 4, 353-356.	3.6	62
133	Substituted 2-Azabicyclo[2.1.1]hexanes as Constrained Proline Analogues: Implications for Collagen Stability. <i>Journal of Organic Chemistry</i> , 2004, 69, 8565-8573.	1.7	61
134	Reactivity of Intein Thioesters: Appending a Functional Group to a Protein. <i>ChemBioChem</i> , 2006, 7, 1375-1383.	1.3	61
135	Dimer formation by a monomeric protein. <i>Protein Science</i> , 2000, 9, 2026-2033.	3.1	60
136	Self-assembled collagen-like peptide fibers as templates for metallic nanowires. <i>Journal of Materials Chemistry</i> , 2008, 18, 3865.	6.7	60
137	A Residue to Residue Hydrogen Bond Mediates the Nucleotide Specificity of Ribonuclease A. <i>Journal of Molecular Biology</i> , 1995, 252, 328-336.	2.0	59
138	Coulombic Forces in Protein-RNA Interactions: Binding and Cleavage by Ribonuclease A and Variants at Lys7, Arg10, and Lys66. <i>Biochemistry</i> , 1998, 37, 12121-12132.	1.2	59
139	1,3-Dipolar Cycloadditions of Diazo Compounds in the Presence of Azides. <i>Organic Letters</i> , 2016, 18, 1538-1541.	2.4	59
140	The Ribonucleolytic Activity of Angiogenin. <i>Biochemistry</i> , 2002, 41, 1343-1350.	1.2	58
141	Signature of π - π^* interactions in α -helices. <i>Protein Science</i> , 2011, 20, 1077-1081.	3.1	58
142	A Key π - π^* Interaction in N -Acyl Homoserine Lactones. <i>ACS Chemical Biology</i> , 2014, 9, 880-883.	1.6	58
143	Using Measurements of Anchoring Energies of Liquid Crystals on Surfaces To Quantify Proteins Captured by Immobilized Ligands. <i>Journal of the American Chemical Society</i> , 2007, 129, 11223-11231.	6.6	57
144	π - π^* interactions in poly(lactic acid) suggest a role in protein folding. <i>Chemical Communications</i> , 2013, 49, 7699.	2.2	57

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145	[23] The SÂ-tag fusion system for protein purification. <i>Methods in Enzymology</i> , 2000, 326, 362-376.	0.4	56
146	Disruption of Shape-Complementarity Markers to Create Cytotoxic Variants of Ribonuclease A. <i>Journal of Molecular Biology</i> , 2005, 354, 41-54.	2.0	56
147	Structures of the Noncanonical RNA Ligase RtcB Reveal the Mechanism of Histidine Guanylation. <i>Biochemistry</i> , 2013, 52, 2518-2525.	1.2	56
148	Functional Evolution of Ribonuclease Inhibitor: Insights from Birds and Reptiles. <i>Journal of Molecular Biology</i> , 2014, 426, 3041-3056.	2.0	56
149	Substrate Binding and Turnover by the Highly Specific I-Ppol Endonucleaseâ€. <i>Biochemistry</i> , 1996, 35, 1076-1083.	1.2	54
150	A Ribonuclease A Variant with Low Catalytic Activity but High Cytotoxicity. <i>Journal of Biological Chemistry</i> , 2000, 275, 9893-9896.	1.6	54
151	A synapomorphic disulfide bond is critical for the conformational stability and cytotoxicity of an amphibian ribonuclease. <i>FEBS Letters</i> , 2000, 477, 203-207.	1.3	54
152	Contrast Agents for Magnetic Resonance Imaging Synthesized with Ring-Opening Metathesis Polymerization. <i>Journal of the American Chemical Society</i> , 2006, 128, 6534-6535.	6.6	54
153	Staudinger Ligation of Peptides at Non-Glycyl Residues. <i>Journal of Organic Chemistry</i> , 2006, 71, 9824-9830.	1.7	54
154	Fine-Tuning Strain and Electronic Activation of Strain-Promoted 1,3-Dipolar Cycloadditions with Endocyclic Sulfamates in SNO-OCTs. <i>Journal of the American Chemical Society</i> , 2017, 139, 8029-8037.	6.6	54
155	A Boronic Acid Conjugate of Angiogenin that Shows ROSâ€Responsive Neuroprotective Activity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2619-2622.	7.2	53
156	A New Remote Subsite in Ribonuclease A. <i>Journal of Biological Chemistry</i> , 1998, 273, 34134-34138.	1.6	52
157	Cytotoxic Ribonucleases:â€ The Dichotomy of Coulombic Forces. <i>Biochemistry</i> , 2007, 46, 10308-10316.	1.2	52
158	Interaction of Nucleic Acids with the Glycocalyx. <i>Journal of the American Chemical Society</i> , 2012, 134, 6218-6223.	6.6	52
159	Structural Basis for Catalysis by Onconase. <i>Journal of Molecular Biology</i> , 2008, 375, 165-177.	2.0	51
160	His ... Asp Catalytic Dyad of Ribonuclease A: Histidine pKa Values in the Wild-Type, D121N, and D121A Enzymes. <i>Biophysical Journal</i> , 1999, 76, 1571-1579.	0.2	50
161	Mechanism of Ribonuclease A Endocytosis: Analogies to Cell-Penetrating Peptides. <i>Biochemistry</i> , 2011, 50, 8374-8382.	1.2	50
162	A tRNA splicing operon: Archease endows RtcB with dual GTP/ATP cofactor specificity and accelerates RNA ligation. <i>Nucleic Acids Research</i> , 2014, 42, 3931-3942.	6.5	50

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163	Molecular basis for the autonomous promotion of cell proliferation by angiogenin. <i>Nucleic Acids Research</i> , 2017, 45, 818-831.	6.5	50
164	Cytotoxicity of Bovine Seminal Ribonuclease: Monomer versus Dimer. <i>Biochemistry</i> , 2005, 44, 15760-15767.	1.2	49
165	Origin of the stability conferred upon collagen by fluorination. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 3859-3862.	1.0	49
166	Mechanism-based inactivation of ribonuclease A. <i>Journal of Organic Chemistry</i> , 1995, 60, 6930-6936.	1.7	48
167	Adjacent cysteine residues as a redox switch. <i>Protein Engineering, Design and Selection</i> , 2001, 14, 939-942.	1.0	48
168	Activation of the Prolyl Hydroxylase Oxygen-sensor Results in Induction of GLUT1, Heme Oxygenase-1, and Nitric-oxide Synthase Proteins and Confers Protection from Metabolic Inhibition to Cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2003, 278, 20235-20239.	1.6	48
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170	Boronic Acid for the Traceless Delivery of Proteins into Cells. <i>ACS Chemical Biology</i> , 2016, 11, 319-323.	1.6	48
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