

Ronald T Raines

List of Publications by Year in descending order

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417
papers

33,593
citations

3726

89
h-index

5118

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-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
169	A Stereoelectronic Effect in Prebiotic Nucleotide Synthesis. <i>ACS Chemical Biology</i> , 2010, 5, 655-657.	1.6	48
170	Boronic Acid for the Traceless Delivery of Proteins into Cells. <i>ACS Chemical Biology</i> , 2016, 11, 319-323.	1.6	48
171	Collagen Prolyl 4-Hydroxylase as a Therapeutic Target. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 10403-10411.	2.9	48
172	Catalysis by Ribonuclease A Is Limited by the Rate of Substrate Association. <i>Biochemistry</i> , 2003, 42, 3509-3518.	1.2	47
173	Tunable, Post-translational Hydroxylation of Collagen Domains in <i>Escherichia coli</i> . <i>ACS Chemical Biology</i> , 2011, 6, 320-324.	1.6	47
174	Glycosylation of onconase increases its conformational stability and toxicity for cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2004, 315, 976-983.	1.0	46
175	Contribution of the Active Site Histidine Residues of Ribonuclease A to Nucleic Acid Binding. <i>Biochemistry</i> , 2001, 40, 4949-4956.	1.2	45
176	Onconase cytotoxicity relies on the distribution of its positive charge. <i>FEBS Journal</i> , 2009, 276, 3846-3857.	2.2	45
177	Sub-picomolar Inhibition of HIV-1 Protease with a Boronic Acid. <i>Journal of the American Chemical Society</i> , 2018, 140, 14015-14018.	6.6	45
178	π - π^* Interactions Engender Chirality in Carbonyl Groups. <i>Organic Letters</i> , 2014, 16, 3421-3423.	2.4	44
179	Anchoring a cytoactive factor in a wound bed promotes healing. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 1012-1020.	1.3	44
180	Replacing a Surface Loop Endows Ribonuclease A with Angiogenic Activity. <i>Journal of Biological Chemistry</i> , 1995, 270, 17180-17184.	1.6	43

#	ARTICLE	IF	CITATIONS
181	Creation of a zymogen. <i>Nature Structural Biology</i> , 2003, 10, 115-119.	9.7	43
182	Decavanadate Inhibits Catalysis by Ribonuclease A. <i>Archives of Biochemistry and Biophysics</i> , 2000, 381, 25-30.	1.4	42
183	O-acylation of hydroxyproline residues: Effect on peptide-bond isomerization and collagen stability. <i>Biopolymers</i> , 2005, 80, 1-8.	1.2	42
184	Reconstitution of a Defunct Glycolytic Pathway via Recruitment of Ambiguous Sugar Kinases. <i>Biochemistry</i> , 2005, 44, 10776-10783.	1.2	42
185	Latent Blue and Red Fluorophores Based on the Trimethyl Lock. <i>ChemBioChem</i> , 2006, 7, 1151-1154.	1.3	42
186	π - π^* Interactions Modulate the Properties of Cysteine Residues and Disulfide Bonds in Proteins. <i>Journal of the American Chemical Society</i> , 2018, 140, 17606-17611.	6.6	42
187	Contribution of a tyrosine side chain to ribonuclease A catalysis and stability. "Contribution of Tyr 97 to RNase A catalysis and stability. <i>Protein Science</i> , 1996, 5, 1697-1703.	3.1	41
188	Pentavalent Organo-Vanadates as Transition State Analogues for Phosphoryl Transfer Reactions. <i>Journal of the American Chemical Society</i> , 2000, 122, 9911-9916.	6.6	41
189	X-ray Structure of Two Crystalline Forms of a Streptomycete Ribonuclease with Cytotoxic Activity. <i>Journal of Biological Chemistry</i> , 2002, 277, 47325-47330.	1.6	41
190	Ribonuclease Inhibitor Regulates Neovascularization by Human Angiogenin. <i>Biochemistry</i> , 2009, 48, 3804-3806.	1.2	41
191	Boronic acid with high oxidative stability and utility in biological contexts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	41
192	Semisynthesis of Proteins Containing Selenocysteine. <i>Methods in Enzymology</i> , 2002, 347, 70-83.	0.4	40
193	Conversion of Azides into Diazo Compounds in Water. <i>Journal of the American Chemical Society</i> , 2013, 135, 14936-14939.	6.6	40
194	4-Fluoroproline: Conformational Analysis and Effects on the Stability and Folding of Peptides and Proteins. <i>Topics in Heterocyclic Chemistry</i> , 2016, 48, 1-25.	0.2	40
195	His-Asp Catalytic Dyad of Ribonuclease A: Conformational Stability of the Wild-Type, D121N, D121A, and H119A Enzymes. <i>Biochemistry</i> , 1998, 37, 17958-17964.	1.2	39
196	Characterization of Protein Immobilization at Silver Surfaces by Near Edge X-ray Absorption Fine Structure Spectroscopy. <i>Langmuir</i> , 2006, 22, 7719-7725.	1.6	39
197	Cellular Uptake of Ribonuclease A Relies on Anionic Glycans. <i>Biochemistry</i> , 2010, 49, 10666-10673.	1.2	39
198	Peptides that anneal to natural collagen in vitro and ex vivo. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5892.	1.5	39

#	ARTICLE	IF	CITATIONS
199	Human angiogenin is a potent cytotoxin in the absence of ribonuclease inhibitor. <i>Rna</i> , 2018, 24, 1018-1027.	1.6	39
200	Stereoelectronic Effects Impact Glycan Recognition. <i>Journal of the American Chemical Society</i> , 2020, 142, 2386-2395.	6.6	39
201	Chemical Mechanism of DNA Cleavage by the Homing Endonuclease I-PpoI. <i>Biochemistry</i> , 1999, 38, 16178-16186.	1.2	37
202	Structure and Function of <i>Bacillus subtilis</i> YphP, a Prokaryotic Disulfide Isomerase with a CXC Catalytic Motif. <i>Biochemistry</i> , 2009, 48, 8664-8671.	1.2	37
203	π - π^* Interactions Are Competitive with Hydrogen Bonds. <i>Organic Letters</i> , 2016, 18, 3614-3617.	2.4	37
204	KFERQ Sequence in Ribonuclease A-mediated Cytotoxicity. <i>Journal of Biological Chemistry</i> , 2002, 277, 11576-11581.	1.6	36
205	2005 Emil Thomas Kaiser Award. <i>Protein Science</i> , 2006, 15, 1219-1225.	3.1	36
206	Green fluorescent protein as a signal for protein-protein interactions. <i>Protein Science</i> , 1997, 6, 2344-2349.	3.1	36
207	Conformational Preferences of Substrates for Human Prolyl 4-Hydroxylase. <i>Biochemistry</i> , 2008, 47, 9447-9455.	1.2	36
208	Comparative functional analysis of ribonuclease 1 homologs: molecular insights into evolving vertebrate physiology. <i>Biochemical Journal</i> , 2017, 474, 2219-2233.	1.7	36
209	Degenerate DNA recognition by I-PpoI endonuclease. <i>Gene</i> , 1998, 206, 11-21.	1.0	35
210	A highly sensitive fluorogenic probe for cytochrome P450 activity in live cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 5864-5866.	1.0	35
211	Separation of Lignin from Corn Stover Hydrolysate with Quantitative Recovery of Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 606-613.	3.2	35
212	Thermodynamic origin of prolyl peptide bond isomers. <i>Tetrahedron Letters</i> , 1993, 34, 3055-3056.	0.7	34
213	ROMP from ROMP: A New Approach to Graft Copolymer Synthesis. <i>Macromolecules</i> , 2009, 42, 4023-4027.	2.2	34
214	Optimal Interstrand Bridges for Collagen-like Biomaterials. <i>Journal of the American Chemical Society</i> , 2014, 136, 13490-13493.	6.6	34
215	<i>Hox</i> genes maintain critical roles in the adult skeleton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7296-7304.	3.3	34
216	Click Chemistry with Cyclopentadiene. <i>Chemical Reviews</i> , 2021, 121, 6777-6801.	23.0	34

#	ARTICLE	IF	CITATIONS
217	Comprehensive comparison of the cytotoxic activities of onconase and bovine seminal ribonuclease. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2003, 136, 343-356.	1.3	33
218	Target selection by natural and redesigned PUF proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15868-15873.	3.3	33
219	Esterification Delivers a Functional Enzyme into a Human Cell. <i>ACS Chemical Biology</i> , 2019, 14, 599-602.	1.6	33
220	Fast, Facile, Hypersensitive Assays for Ribonucleolytic Activity. <i>Methods in Enzymology</i> , 2001, 341, 81-94.	0.4	32
221	Fluorescence Assay for the Binding of Ribonuclease A to the Ribonuclease Inhibitor Protein. <i>Analytical Biochemistry</i> , 2002, 306, 100-107.	1.1	32
222	Production of human prolyl 4-hydroxylase in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2004, 38, 279-291.	0.6	32
223	Increasing the potency of a cytotoxin with an arginine graft. <i>Protein Engineering, Design and Selection</i> , 2007, 20, 505-9.	1.0	32
224	An π - π^* interaction reduces the electrophilicity of the acceptor carbonyl group. <i>Chemical Communications</i> , 2013, 49, 8166.	2.2	32
225	Contribution of Individual Disulfide Bonds to the Oxidative Folding of Ribonuclease A. <i>Biochemistry</i> , 2000, 39, 12033-12042.	1.2	31
226	Fluorescence Polarization Assay to Quantify Protein-Protein Interactions. , 2004, 261, 161-166.		31
227	Variants of ribonuclease inhibitor that resist oxidation. <i>Protein Science</i> , 1999, 8, 430-434.	3.1	31
228	Binding energy and enzymatic catalysis. <i>Journal of Chemical Education</i> , 1990, 67, 483.	1.1	30
229	Synthesis and characterization of a novel class of reducing agents that are highly neuroprotective for retinal ganglion cells. <i>Experimental Eye Research</i> , 2006, 83, 1252-1259.	1.2	30
230	Genetic Selection for Critical Residues in Ribonucleases. <i>Journal of Molecular Biology</i> , 2006, 362, 459-478.	2.0	30
231	Multilayered Films Fabricated from an Oligoarginine-Conjugated Protein-Promote Efficient Surface-Mediated Protein Transduction. <i>Biomacromolecules</i> , 2007, 8, 857-863.	2.6	30
232	Thiols and Selenols as Electron-Relay Catalysts for Disulfide-Bond Reduction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12901-12904.	7.2	30
233	Triple, Mutually Orthogonal Bioorthogonal Pairs through the Design of Electronically Activated Sulfamate-Containing Cycloalkynes. <i>Journal of the American Chemical Society</i> , 2020, 142, 18826-18835.	6.6	30
234	No Role for Pepstatin-A-Sensitive Acidic Proteinases in Reovirus Infections of L or MDCK Cells. <i>Virology</i> , 1998, 251, 264-272.	1.1	29

#	ARTICLE	IF	CITATIONS
235	High-Level Soluble Production and Characterization of Porcine Ribonuclease Inhibitor. Protein Expression and Purification, 2001, 22, 174-179.	0.6	29
236	Cleavage of 3'-5'-Pyrophosphate-Linked Dinucleotides by Ribonuclease A and Angiogenin. Biochemistry, 2001, 40, 10262-10272.	1.2	29
237	Is glycine a surrogate for a D-amino acid in the collagen triple helix?. Protein Science, 2006, 16, 208-215.	3.1	29
238	Rational Design and Evaluation of Mammalian Ribonuclease Cytotoxins. Methods in Enzymology, 2012, 502, 273-290.	0.4	29
239	Fluorogenic Assay for Inhibitors of HIV-1 Protease with Sub-picomolar Affinity. Scientific Reports, 2015, 5, 11286.	1.6	29
240	Collagen Prolyl Hydroxylases Are Bifunctional Growth Regulators in Melanoma. Journal of Investigative Dermatology, 2019, 139, 1118-1126.	0.3	29
241	Conformational Stability and Catalytic Activity of PTEN Variants Linked to Cancers and Autism Spectrum Disorders. Biochemistry, 2015, 54, 1576-1582.	1.2	28
242	Selective Inhibition of Collagen Prolyl 4-Hydroxylase in Human Cells. ACS Chemical Biology, 2016, 11, 193-199.	1.6	28
243	Immunosuppressive Activity of Bovine Seminal Ribonuclease and its Mode of Action.. Immunobiology, 1996, 195, 271-285.	0.8	27
244	Contribution of tertiary amides to the conformational stability of collagen triple helices. Biopolymers, 2001, 59, 24-28.	1.2	27
245	A ribonuclease zymogen activated by the NS3 protease of the hepatitis C virus. FEBS Journal, 2006, 273, 5457-5465.	2.2	27
246	tRNA Ligase Catalyzes the GTP-Dependent Ligation of RNA with 3'-Phosphate and 5'-Hydroxyl Termini. Biochemistry, 2012, 51, 1333-1335.	1.2	27
247	Simulated Moving Bed Chromatography: Separation and Recovery of Sugars and Ionic Liquid from Biomass Hydrolysates. ChemSusChem, 2013, 6, 2083-2089.	3.6	27
248	Structure and stability of the P93G variant of ribonuclease A. Protein Science, 1998, 7, 1620-1625.	3.1	26
249	The CXXC motif: crystal structure of an active-site variant of Escherichia coli thioredoxin. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 1533-1538.	2.5	26
250	Electronic and steric effects on the rate of the traceless Staudinger ligation. Organic and Biomolecular Chemistry, 2008, 6, 1173.	1.5	26
251	Practical syntheses of 4-fluoroprolines. Journal of Fluorine Chemistry, 2008, 129, 781-784.	0.9	25
252	Design and Characterization of an HIV-Specific Ribonuclease Zymogen. AIDS Research and Human Retroviruses, 2008, 24, 1357-1363.	0.5	25

#	ARTICLE	IF	CITATIONS
253	Chapter 2 Protein Engineering with the Traceless Staudinger Ligation. <i>Methods in Enzymology</i> , 2009, 462, 25-44.	0.4	25
254	Decreasing Distortion Energies without Strain: Diazo-Selective 1,3-Dipolar Cycloadditions. <i>Journal of Organic Chemistry</i> , 2016, 81, 5998-6006.	1.7	25
255	Stilbene Boronic Acids Form a Covalent Bond with Human Transthyretin and Inhibit Its Aggregation. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 7820-7834.	2.9	25
256	Evolution of Ribonuclease Inhibitor by Exon Duplication. <i>Molecular Biology and Evolution</i> , 2002, 19, 959-963.	3.5	24
257	Compensating effects on the cytotoxicity of ribonuclease A variants. <i>Archives of Biochemistry and Biophysics</i> , 2003, 415, 172-177.	1.4	24
258	Coulombic effects on the traceless Staudinger ligation in water. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 1055-1063.	1.4	24
259	An π - π^* Interaction in the Bound Substrate of Aspartic Proteases Replicates the Oxyanion Hole. <i>ACS Catalysis</i> , 2019, 9, 1464-1471.	5.5	24
260	Catalysis of Protein Disulfide Bond Isomerization in a Homogeneous Substrate. <i>Biochemistry</i> , 2005, 44, 12168-12178.	1.2	23
261	Arginine Residues Are More Effective than Lysine Residues in Eliciting the Cellular Uptake of Onconase. <i>Biochemistry</i> , 2011, 50, 10293-10299.	1.2	23
262	Catalysis by the Tumor-Suppressor Enzymes PTEN and PTEN-L. <i>PLoS ONE</i> , 2015, 10, e0116898.	1.1	23
263	Coevolution of RtcB and Archease created a multiple-turnover RNA ligase. <i>Rna</i> , 2015, 21, 1866-1872.	1.6	23
264	1,3-Dipolar Cycloaddition with Diazo Groups: Noncovalent Interactions Overwhelm Strain. <i>Organic Letters</i> , 2016, 18, 4466-4469.	2.4	23
265	Angiogenin activates the astrocytic Nrf2/antioxidant-response element pathway and thereby protects murine neurons from oxidative stress. <i>Journal of Biological Chemistry</i> , 2019, 294, 15095-15103.	1.6	23
266	An intuitive approach to steady state kinetics. <i>Journal of Chemical Education</i> , 1988, 65, 757.	1.1	22
267	Nature's transitory covalent bond. <i>Nature Structural Biology</i> , 1997, 4, 424-427.	9.7	22
268	Macrocyclic Scaffold for the Collagen Triple Helix. <i>Organic Letters</i> , 2006, 8, 4735-4738.	2.4	22
269	Oligomers of a 5-Carboxy-methanopyrrolidine β -Amino Acid. A Search for Order. <i>Organic Letters</i> , 2010, 12, 5438-5441.	2.4	22
270	Contribution of Electrostatics to the Binding of Pancreatic-Type Ribonucleases to Membranes. <i>Biochemistry</i> , 2013, 52, 6304-6312.	1.2	22

#	ARTICLE	IF	CITATIONS
271	Bovine Brain Ribonuclease Is the Functional Homolog of Human Ribonuclease 1. <i>Journal of Biological Chemistry</i> , 2014, 289, 25996-26006.	1.6	22
272	Replacing a single atom accelerates the folding of a protein and increases its thermostability. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 6780-6785.	1.5	22
273	A Boronic Acid Conjugate of Angiogenin that Shows ROS-Responsive Neuroprotective Activity. <i>Angewandte Chemie</i> , 2017, 129, 2663-2666.	1.6	22
274	Stringency of the 2-His-1-Asp Active-Site Motif in Prolyl 4-Hydroxylase. <i>PLoS ONE</i> , 2009, 4, e7635.	1.1	22
275	Excavating an Active Site: The Nucleobase Specificity of Ribonuclease A. <i>Biochemistry</i> , 2000, 39, 14487-14494.	1.2	21
276	Catalysis of Protein Folding by an Immobilized Small-Molecule Dithiol. <i>Biotechnology Progress</i> , 2008, 19, 1307-1314.	1.3	21
277	Interaction of onconase with the human ribonuclease inhibitor protein. <i>Biochemical and Biophysical Research Communications</i> , 2008, 377, 512-514.	1.0	21
278	Fluorogenic affinity label for the facile, rapid imaging of proteins in live cells. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3969.	1.5	21
279	Antitumor Activity of Ribonuclease Multimers Created by Site-Specific Covalent Tethering. <i>Bioconjugate Chemistry</i> , 2010, 21, 1691-1702.	1.8	21
280	Quantum mechanical origin of the conformational preferences of 4-thiaproline and its S-oxides. <i>Amino Acids</i> , 2011, 41, 181-186.	1.2	21
281	Human Collagen Prolyl 4-Hydroxylase Is Activated by Ligands for Its Iron Center. <i>Biochemistry</i> , 2016, 55, 3224-3233.	1.2	21
282	Knockout of the Ribonuclease Inhibitor Gene Leaves Human Cells Vulnerable to Secretory Ribonucleases. <i>Biochemistry</i> , 2016, 55, 6359-6362.	1.2	21
283	Modulation of an π - π^* interaction with β -fluoro groups. <i>Arkivoc</i> , 2010, 2010, 251-262.	0.3	21
284	Protein prosthesis: β -peptides as reverse-turn surrogates. <i>Protein Science</i> , 2013, 22, 274-279.	3.1	20
285	Fluorogenic Probe for Constitutive Cellular Endocytosis. <i>Chemistry and Biology</i> , 2013, 20, 614-618.	6.2	20
286	Electronic and Steric Optimization of Fluorogenic Probes for Biomolecular Imaging. <i>Journal of Organic Chemistry</i> , 2017, 82, 4297-4304.	1.7	20
287	A Misfolded but Active Dimer of Bovine Seminal Ribonuclease. <i>FEBS Journal</i> , 1994, 224, 109-114.	0.2	19
288	Trimethyl Lock: A Stable Chromogenic Substrate for Esterases. <i>Molecules</i> , 2008, 13, 204-211.	1.7	19

#	ARTICLE	IF	CITATIONS
289	Sensitive fluorogenic substrate for alkaline phosphatase. <i>Analytical Biochemistry</i> , 2011, 418, 247-252.	1.1	19
290	Fluorogenic label to quantify the cytosolic delivery of macromolecules. <i>Molecular BioSystems</i> , 2013, 9, 339.	2.9	19
291	Hyperconjugative Antiaromaticity Activates 4 <i>H</i> -Pyrazoles as Inverse-Electron-Demand Diels-Alder Dienes. <i>Organic Letters</i> , 2019, 21, 8492-8495.	2.4	19
292	Optimization of interstrand interactions enables burn detection with a collagen-mimetic peptide. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9906-9912.	1.5	19
293	Origin of the "inactivation"™ of ribonuclease A at low salt concentration. <i>FEBS Letters</i> , 2000, 468, 199-202.	1.3	18
294	Direct and continuous assay for prolyl 4-hydroxylase. <i>Analytical Biochemistry</i> , 2009, 386, 181-185.	1.1	18
295	Separable fluorous ionic liquids for the dissolution and saccharification of cellulose. <i>Green Chemistry</i> , 2011, 13, 2719.	4.6	18
296	Interstrand Dipole-Dipole Interactions Can Stabilize the Collagen Triple Helix. <i>Journal of Biological Chemistry</i> , 2011, 286, 22905-22912.	1.6	18
297	An Evolved Mxe GyrA Intein for Enhanced Production of Fusion Proteins. <i>ACS Chemical Biology</i> , 2015, 10, 527-538.	1.6	18
298	Nucleoside Tetra- and Pentaphosphates Prepared Using a Tetrakisphosphorylation Reagent Are Potent Inhibitors of Ribonuclease A. <i>Journal of the American Chemical Society</i> , 2019, 141, 18400-18404.	6.6	18
299	Delivery of Proteins and Nucleic Acids: Achievements and Challenges. <i>Bioconjugate Chemistry</i> , 2019, 30, 261-262.	1.8	18
300	Enzyme relaxation in the reaction catalyzed by triosephosphate isomerase: detection and kinetic characterization of two unliganded forms of the enzyme. <i>Biochemistry</i> , 1987, 26, 7014-7020.	1.2	17
301	Ribonuclease-Activated Cancer Prodrug. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 268-272.	1.3	17
302	Facile Chemical Functionalization of Proteins through Intein-Linked Yeast Display. <i>Bioconjugate Chemistry</i> , 2013, 24, 1634-1644.	1.8	17
303	A novel fully human antitumor ImmunoRNase resistant to the RNase inhibitor. <i>Protein Engineering, Design and Selection</i> , 2013, 26, 243-248.	1.0	17
304	Consequences of the Endogenous N-Glycosylation of Human Ribonuclease 1. <i>Biochemistry</i> , 2019, 58, 987-996.	1.2	17
305	Templated Collagen "Double Helices" Maintain Their Structure. <i>Journal of the American Chemical Society</i> , 2020, 142, 1137-1141.	6.6	17
306	A Highly Active Immobilized Ribonuclease. <i>Analytical Biochemistry</i> , 2000, 286, 312-314.	1.1	16

#	ARTICLE	IF	CITATIONS
307	Effects of a second-generation human anti-ErbB2 ImmunoRNase on trastuzumab-resistant tumors and cardiac cells. <i>Protein Engineering, Design and Selection</i> , 2014, 27, 83-88.	1.0	16
308	Palladium- π -Protein Oxidative Addition Complexes by Amine-Selective Acylation. <i>Journal of the American Chemical Society</i> , 2020, 142, 21237-21242.	6.6	16
309	Modulating Collagen Triple-Helix Stability with 4-Chloro, 4-Fluoro, and 4-Methylprolines. <i>Advances in Experimental Medicine and Biology</i> , 2009, 611, 251-252.	0.8	16
310	Molecular basis for catabolism of the abundant metabolite trans-4-hydroxy-L-proline by a microbial glycol radical enzyme. <i>ELife</i> , 2020, 9, .	2.8	16
311	Sulfur Shuffle: Modulating Enzymatic Activity by Thiol-Disulfide Interchange. <i>Bioconjugate Chemistry</i> , 2000, 11, 408-413.	1.8	15
312	Binding of non-natural 3 β -nucleotides to ribonuclease A. <i>FEBS Journal</i> , 2005, 272, 744-755.	2.2	15
313	Carpe Diubiquitin. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9042-9044.	7.2	15
314	Synthesis of 5-Fluoro- and 5-Hydroxymethanoproline via Lithiation of <i>N</i> -BOC-methanopyrrolidines. Constrained C ³ -Exo and C ³ -Endo Flp and Hyp Conformer Mimics. <i>Journal of Organic Chemistry</i> , 2012, 77, 5331-5344.	1.7	15
315	Rapid cycloaddition of a diazo group with an unstrained dipolarophile. <i>Tetrahedron Letters</i> , 2016, 57, 2347-2350.	0.7	15
316	Optical imaging of collagen fiber damage to assess thermally injured human skin. <i>Wound Repair and Regeneration</i> , 2020, 28, 848-855.	1.5	15
317	Synthesis of Conformationally Constrained 5-Fluoro- and 5-Hydroxymethanopyrrolidines. Ring-Puckered Mimics of <i>Gauche</i> - and <i>Anti</i> -3-Fluoro- and 3-Hydroxypyrrrolidines. <i>Journal of Organic Chemistry</i> , 2011, 76, 3626-3634.	1.7	14
318	Human Cancer Antigen Globo H Is a Cell-Surface Ligand for Human Ribonuclease 1. <i>ACS Central Science</i> , 2015, 1, 181-190.	5.3	14
319	Selective inhibition of prolyl 4-hydroxylases by bipyridinedicarboxylates. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 3081-3090.	1.4	14
320	Prolyl 4-Hydroxylase: Substrate Isosteres in Which an (<i>E</i>)- or (<i>Z</i>)-Alkene Replaces the Prolyl Peptide Bond. <i>Biochemistry</i> , 2017, 56, 219-227.	1.2	14
321	Cytosolic Uptake of Large Monofunctionalized Dextran. <i>Bioconjugate Chemistry</i> , 2018, 29, 1942-1949.	1.8	14
322	Site-specific PEGylation endows a mammalian ribonuclease with antitumor activity. <i>Cancer Biology and Therapy</i> , 2011, 12, 208-214.	1.5	13
323	Organocatalysts of oxidative protein folding inspired by protein disulfide isomerase. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 8598-8602.	1.5	13
324	Phenotype of ribonuclease 1 deficiency in mice. <i>Rna</i> , 2019, 25, 921-934.	1.6	13

#	ARTICLE	IF	CITATIONS
325	nâ†Œ Interactions Modulate the Disulfide Reduction Potential of Epidithiodiketopiperazines. Journal of the American Chemical Society, 2020, 142, 15107-15115.	6.6	13
326	Acceleration of 1,3-Dipolar Cycloadditions by Integration of Strain and Electronic Tuning. Journal of the American Chemical Society, 2021, 143, 9489-9497.	6.6	13
327	Extending the Limits to Enzymatic Catalysis:Â Diffusion of Ribonuclease A in One Dimensionâ€. Biochemistry, 1999, 38, 5302-5307.	1.2	12
328	Functional and structural analyses of <i>Nâ€‹/i>acylsulfonamideâ€‹linked dinucleoside inhibitors of RNaseâ€‹fA. FEBS Journal, 2011, 278, 541-549.	2.2	12
329	Terbium(III) Luminescence-Based Assay for Esterase Activity. Analytical Chemistry, 2019, 91, 8615-8621.	3.2	12
330	Efficient metal-free conversion of glucose to 5-hydroxymethylfurfural using a boronic acid. Biomass Conversion and Biorefinery, 2019, 9, 471-477.	2.9	12
331	Cyclic Peptide Mimetic of Damaged Collagen. Biomacromolecules, 2020, 21, 1539-1547.	2.6	12
332	Emerging biological functions of ribonuclease 1 and angiogenin. Critical Reviews in Biochemistry and Molecular Biology, 2022, 57, 244-260.	2.3	12
333	[16] Green fluorescent protein chimeras to probe protein-protein interactions. Methods in Enzymology, 2000, 328, 251-261.	0.4	11
334	Zinc(II)-mediated inhibition of a ribonuclease by an N-hydroxyurea nucleotide. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 409-412.	1.0	11
335	Ribonuclease S redux. Chemical Communications, 2011, 47, 973-975.	2.2	11
336	4â€‹ketoproline: An electrophilic proline analog for bioconjugation. Biopolymers, 2015, 104, 110-115.	1.2	11
337	Ribonucleases Endowed with Specific Toxicity for Spermatogenic Layers. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1997, 118, 881-888.	0.7	10
338	Intraspecies Regulation of Ribonucleolytic Activity. Biochemistry, 2007, 46, 13131-13140.	1.2	10
339	Genetic selection reveals the role of a buried, conserved polar residue. Protein Science, 2007, 16, 1609-1616.	3.1	10
340	A conserved interaction with the chromophore of fluorescent proteins. Protein Science, 2012, 21, 171-177.	3.1	10
341	Antimicrobial Synergy of a Ribonuclease and a Peptide Secreted by Human Cells. ACS Infectious Diseases, 2020, 6, 3083-3088.	1.8	10
342	Two-Step Synthesis of Î±-Aryl-Î±-diazoamides as Modular Bioreversible Labels. Organic Letters, 2021, 23, 3110-3114.	2.4	10

#	ARTICLE	IF	CITATIONS
343	Fluorescence Polarization Assay to Quantify Protein-Protein Interactions: An Update. <i>Methods in Molecular Biology</i> , 2015, 1278, 323-327.	0.4	10
344	First-in-human phase I clinical trial of QBI-139, a human ribonuclease variant, in solid tumors.. <i>Journal of Clinical Oncology</i> , 2012, 30, TPS3113-TPS3113.	0.8	10
345	Modulation of an π - π^* interaction with $\hat{\pm}$ -fluoro groups. <i>Arkivoc</i> , 2010, 2010, 251-262.	0.3	10
346	Production of Human Pancreatic Ribonuclease in <i>Saccharomyces cerevisiae</i> and <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 1996, 7, 253-261.	0.6	9
347	Semisynthesis of Ribonuclease A using Intein-Mediated Protein Ligation. <i>Scientific World Journal</i> , The, 2002, 2, 1838-1842.	0.8	9
348	Site-specific folate conjugation to a cytotoxic protein. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 5029-5032.	1.0	9
349	Human Ribonuclease with a Pendant Poly(Ethylene Glycol) Inhibits Tumor Growth in Mice. <i>Translational Oncology</i> , 2013, 6, 392-397.	1.7	9
350	Pyramidalization of a carbonyl C atom in (2 <i>S</i>)-(1 <i>N</i>)-(selenoacetyl)proline methyl ester. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o805-o806.	0.2	9
351	Catalysis of Hydrogen-Deuterium Exchange Reactions by 4-Substituted Proline Derivatives. <i>Journal of Organic Chemistry</i> , 2019, 84, 1247-1256.	1.7	9
352	Role for Cell-Surface Collagen of <i>Streptococcus pyogenes</i> in Infections. <i>ACS Infectious Diseases</i> , 2020, 6, 1836-1843.	1.8	9
353	Structural changes to ribonuclease A and their effects on biological activity. <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 1999, 123, 103-111.	0.5	8
354	A divalent protecting group for benzoxaboroles. <i>RSC Advances</i> , 2013, 3, 21331.	1.7	8
355	Pyrazine-derived disulfide-reducing agent for chemical biology. <i>Chemical Communications</i> , 2014, 50, 9591.	2.2	8
356	Peptides on the Rise. <i>Accounts of Chemical Research</i> , 2017, 50, 2419-2419.	7.6	8
357	A pendant peptide endows a sunscreen with water-resistance. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7139-7142.	1.5	8
358	Structure and Dynamics of N-Glycosylated Human Ribonuclease 1. <i>Biochemistry</i> , 2020, 59, 3148-3156.	1.2	8
359	Abstract 1838: Efficacy of ribonuclease QBI-139 in combination with standard of care therapies. <i>Cancer Research</i> , 2012, 72, 1838-1838.	0.4	8
360	Context-Dependence of the Reactivity of Cysteine and Lysine Residues. <i>ChemBioChem</i> , 2022, 23, .	1.3	8

#	ARTICLE	IF	CITATIONS
361	The Mechanistic Pathway of a Mutant Triosephosphate Isomerase. <i>Annals of the New York Academy of Sciences</i> , 1986, 471, 266-271.	1.8	7
362	Effect of bovine seminal ribonuclease and bovine pancreatic ribonuclease A on bovine oocyte maturation. <i>The Journal of Experimental Zoology</i> , 2000, 287, 394-399.	1.4	7
363	Zinc(II)-mediated inhibition of ribonuclease Sa by an N-hydroxyurea nucleotide and its basis. <i>Biochemical and Biophysical Research Communications</i> , 2004, 319, 152-156.	1.0	7
364	Bioavailable affinity label for collagen prolyl 4-hydroxylase. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 3597-3601.	1.4	7
365	A Human Ribonuclease Variant and ERK-Pathway Inhibitors Exhibit Highly Synergistic Toxicity for Cancer Cells. <i>Molecular Cancer Therapeutics</i> , 2018, 17, 2622-2632.	1.9	7
366	Synthesis and Diels-Alder Reactivity of 4-Fluoro-4-Methyl-4H-Pyrazoles. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3964.	1.8	7
367	Synthetic Surfaces for Ribonuclease Adsorption. <i>Langmuir</i> , 2005, 21, 187-190.	1.6	6
368	Peptides and peptidomimetics as prototypes. <i>Current Opinion in Chemical Biology</i> , 2008, 12, 690-691.	2.8	6
369	Potential of ribonuclease cytotoxicity by a poly(amidoamine) dendrimer. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 2756-2758.	1.0	6
370	Differential Effects of Nitrogen Substitution in 5- and 6-Membered Aromatic Motifs. <i>Chemistry - A European Journal</i> , 2020, 26, 8862-8866.	1.7	6
371	Disulfide Chromophores Arise from Stereoelectronic Effects. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3931-3935.	1.2	6
372	Creating Site-Specific Isopeptide Linkages Between Proteins with the Traceless Staudinger Ligation. <i>Methods in Molecular Biology</i> , 2015, 1248, 55-65.	0.4	6
373	Bifunctional Peptide that Anneals to Damaged Collagen and Clusters TGF- β 2 Receptors Enhances Wound Healing. <i>ACS Chemical Biology</i> , 2022, 17, 314-321.	1.6	6
374	Genetic screen to dissect protein-protein interactions: ribonuclease inhibitor-ribonuclease A as a model system. <i>Methods</i> , 2002, 28, 346-352.	1.9	5
375	Genetic selection for peptide inhibitors of angiogenin. <i>Protein Engineering, Design and Selection</i> , 2008, 21, 289-294.	1.0	5
376	Silencing an Inhibitor Unleashes a Cytotoxic Enzyme. <i>Biochemistry</i> , 2009, 48, 5051-5053.	1.2	5
377	Ribonucleoside 3'-Phosphates as Pro-Moieties for an Orally Administered Drug. <i>ChemMedChem</i> , 2012, 7, 1361-1364.	1.6	5
378	Convenient synthesis of collagen-related tripeptides for segment condensation. <i>Biopolymers</i> , 2015, 104, 674-681.	1.2	5

#	ARTICLE	IF	CITATIONS
379	Hyperconjugative C-F Interactions Stabilize the Enol Form of Perfluorinated Cyclic Keto-Enol Systems. <i>Journal of Organic Chemistry</i> , 2019, 84, 6432-6436.	1.7	5
380	5(6)-anti-Substituted-2-azabicyclo[2.1.1]hexanes: A Nucleophilic Displacement Route. <i>Journal of Organic Chemistry</i> , 2009, 74, 8232-8242.	1.7	4
381	Affinity of monoclonal antibodies for Globo-series glycans. <i>Carbohydrate Research</i> , 2014, 397, 1-6.	1.1	4
382	PTENpred: A Designer Protein Impact Predictor for PTEN-related Disorders. <i>Journal of Computational Biology</i> , 2016, 23, 969-975.	0.8	4
383	Circular zymogens of human ribonuclease 1. <i>Protein Science</i> , 2019, 28, 1713-1719.	3.1	4
384	Geminal repulsion disrupts Diels-Alder reactions of geminally substituted cyclopentadienes and 4H-pyrazoles. <i>Tetrahedron</i> , 2021, 91, 132160.	1.0	4
385	One-dimensional diffusion of a protein along a single-stranded nucleic acid. <i>Techniques in Protein Chemistry</i> , 1997, , 565-572.	0.3	3
386	Jeremy R. Knowles (1935-2008). <i>ACS Chemical Biology</i> , 2008, 3, 262-264.	1.6	3
387	Structure of RNA 2-phosphate cyclase bound to substrate RNA. <i>Rna</i> , 2014, 20, 1560-1566.	1.6	3
388	Assignments of RNase A by ADAPT-NMR and enhancer. <i>Biomolecular NMR Assignments</i> , 2015, 9, 81-88.	0.4	3
389	A substrate selected by phage display exhibits enhanced side-chain hydrogen bonding to HIV-1 protease. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 690-694.	1.1	3
390	Intrinsic site-selectivity of ubiquitin dimer formation. <i>Protein Science</i> , 2015, 24, 182-189.	3.1	2
391	Altering Substrate Specificity and Detecting Processivity in Nucleases. <i>Techniques in Protein Chemistry</i> , 1994, 5, 313-320.	0.3	2
392	Stronger and (now) longer synthetic collagen. <i>Advances in Experimental Medicine and Biology</i> , 2009, 611, xci-xcviii.	0.8	2
393	Canavanine versus arginine: Prospects for cell-penetrating peptides. <i>Tetrahedron Letters</i> , 2022, 99, 153848.	0.7	2
394	Innentitelbild: Thiols and Selenols as Electron-Relay Catalysts for Disulfide-Bond Reduction (Angew.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	9.6	1
395	Endogenous Enzymes Enable Antimicrobial Activity. <i>ACS Chemical Biology</i> , 2021, 16, 800-805.	1.6	1
396	Abstract C42: QBl-139, a human RNase variant in a phase I trial, has broad in vivo efficacy. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
397	Ribonuclease zymogen induces cytotoxicity upon HIV-1 infection. <i>AIDS Research and Therapy</i> , 2021, 18, 77.	0.7	1
398	Protein Assembly to Mine the Human Genome. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2003, , 359-369.	0.1	1
399	Enzymes as Chemotherapeutic Agents. , 2012, , 281-291.		1
400	The stereoelectronic basis of collagen stability. , 2002, , 344-346.		1
401	Assessing and utilizing esterase specificity in antimicrobial prodrug development. <i>Methods in Enzymology</i> , 2022, 664, 199-220.	0.4	1
402	Semisynthesis of Protein variants Using Intein-Mediated Protein Ligation. <i>Scientific World Journal, The</i> , 2001, 1, 117-117.	0.8	0
403	Symbiosis: Chemical Biology at Wisconsin. <i>ACS Chemical Biology</i> , 2006, 1, 481-484.	1.6	0
404	Self-Assembly of Collagen Mimetic Peptides. , 2006, , 688-689.		0
405	Stronger and Longer Synthetic Collagen. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1062, 1.	0.1	0
406	Hyperstable Collagen Based on 4-Fluoroproline Residues. <i>ACS Symposium Series</i> , 2007, , 447-486.	0.5	0
407	1,9-Bis(2-pyridyl)-1,2,8,9-tetrathia-5-oxanonane. <i>MolBank</i> , 2009, 2009, M642.	0.2	0
408	Daniel S. Kemp (1936â€“2020): A Pioneer of Bioorganic Chemistry. <i>ACS Chemical Biology</i> , 2020, 15, 2620-2622.	1.6	0
409	Differential Effects of Nitrogen Substitution in 5â€•and 6â€•Membered Aromatic Motifs. <i>Chemistry - A European Journal</i> , 2020, 26, 8833-8833.	1.7	0
410	Semisynthesis of Human Ribonucleaseâ€•S. <i>Bioconjugate Chemistry</i> , 2021, 32, 82-87.	1.8	0
411	Antagonists of ribonuclease inhibitor: Small molecules, dendrimers, and peptides. <i>FASEB Journal</i> , 2008, 22, 651.1.	0.2	0
412	Substrate specificity and conformational preferences of prolyl 4â€•hydroxylase. <i>FASEB Journal</i> , 2008, 22, 609.1.	0.2	0
413	Latent Fluorophores for Biomolecular Imaging. <i>FASEB Journal</i> , 2008, 22, 117.3.	0.2	0
414	Contribution of mainchain-mainchain hydrogen bonds to the conformational stability of triple-helical collagen. , 2002, , 347-348.		0

#	ARTICLE	IF	CITATIONS
415	Effect of fluoro-substituted proline residues on the conformational stability of triple-helical collagen mimics. , 2002, , 355-356.		0
416	Modulating the conformational stability of triple-helical collagen by chemical modification. , 2002, , 357-358.		0
417	Structurally investigating a niche pathway for chemical reversal of proline hydroxylation in the pathogen <i>Clostridioides difficile</i> . FASEB Journal, 2022, 36, .	0.2	0