Ulrich Hahn

List of Publications by Year
in descending order

125	5,033	117453	95083
papers	citations	34 h-index	68 g-index

130	130	130	4229
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A general method for rapid site-directed mutagenesis using the polymerase chain reaction. Gene, 1990, 96, 125-128.	1.0	735
2	Contribution of hydrogen bonding to the conformational stability of ribonuclease T1. Biochemistry, 1992, 31, 725-732.	1.2	303
3	Resveratrol Is Absorbed in the Small Intestine as Resveratrol Glucuronide. Biochemical and Biophysical Research Communications, 2000, 272, 212-217.	1.0	221
4	Novel biomarkers of the metabolism of caffeic acid derivatives in vivo. Free Radical Biology and Medicine, 2001, 30, 1213-1222.	1.3	214
5	Epicatechin and Catechin are O-Methylated and Glucuronidated in the Small Intestine. Biochemical and Biophysical Research Communications, 2000, 277, 507-512.	1.0	193
6	Folding of ribonuclease T1. 1. Existence of multiple unfolded states created by proline isomerization. Biochemistry, 1990, 29, 3053-3061.	1.2	174
7	Secondary Structure and Temperature-induced Unfolding and Refolding of Ribonuclease T1 in Aqueous Solution. Journal of Molecular Biology, 1993, 232, 967-981.	2.0	151
8	Folding of ribonuclease T1. 2. Kinetic models for the folding and unfolding reactions. Biochemistry, 1990, 29, 3061-3070.	1.2	145
9	Ribonuclease T1: Structure, Function, and Stability. Angewandte Chemie International Edition in English, 1991, 30, 343-360.	4.4	144
10	Replacement of a cis proline simplifies the mechanism of ribonuclease T1 folding. Biochemistry, 1990, 29, 6475-6480.	1.2	140
11	Molecular Characterization of the 56-kDa CYP153 from Acinetobacter sp. EB104. Biochemical and Biophysical Research Communications, 2001, 286, 652-658.	1.0	121
12	Impact of Point Mutations on the Structure and Thermal Stability of Ribonuclease T1 in Aqueous Solution Probed by Fourier Transform Infrared Spectroscopy. Biochemistry, 1994, 33, 10725-10730.	1.2	101
13	Epicatechin and its in vivo metabolite, 3â€²-O-methyl epicatechin, protect human fibroblasts from oxidative-stress-induced cell death involving caspase-3 activation. Biochemical Journal, 2001, 354, 493.	1.7	99
14	Expression of the chemically synthesized gene for ribonuclease T1 in Escherichia coli using a secretion cloning vector. FEBS Journal, 1988, 173, 617-622.	0.2	87
15	Cell-Specific Aptamers as Emerging Therapeutics. Journal of Nucleic Acids, 2011, 2011, 1-18.	0.8	79
16	Split gene for mitochondrial 24S ribosomal RNA of neurospora crassa. Cell, 1979, 17, 191-200.	13.5	75
17	Stability and Folding Kinetics of Ribonuclease T1 are Strongly Altered by the Replacement of Cis-proline 39 with Alanine. Journal of Molecular Biology, 1993, 231, 897-912.	2.0	74
18	Cloning of a full-length complementary DNA for fatty-acid-binding protein from bovine heart. FEBS Journal, 1988, 175, 549-556.	0.2	67

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19	Interleukin-6 receptor specific RNA aptamers for cargo delivery into target cells. RNA Biology, 2012, 9, 67-80.	1.5	58
20	Consensus structure and evolution of 5S rRNA. Nucleic Acids Research, 1983, 11, 893-900.	6.5	55
21	Aptamers that bind to the antibiotic moenomycin A. Bioorganic and Medicinal Chemistry, 2001, 9, 2557-2563.	1.4	54
22	Aptamers as Drug Delivery Vehicles. ChemMedChem, 2014, 9, 1998-2011.	1.6	50
23	A General Ribonuclease Assay Using Methylene Blue. Analytical Biochemistry, 1996, 240, 24-28.	1.1	49
24	An Aptamer Intrinsically Comprising 5â€Fluoroâ€2â€²â€deoxyuridine for Targeted Chemotherapy. Angewandte Chemie - International Edition, 2014, 53, 10541-10544.	7.2	49
25	Folding of RNase T1 is decelerated by a specific tertiary contact in a folding intermediate. Proteins: Structure, Function and Bioinformatics, 1992, 12, 171-179.	1.5	47
26	Protein dynamics. Biophysical Chemistry, 1987, 26, 247-261.	1.5	45
27	Physical map of Aspergillus nidulans mitochondrial genes coding for ribosomal RNA: An intervening sequence in the large rRNA cistron. Molecular Genetics and Genomics, 1980, 177, 389-397.	2.4	44
28	Chlorin e6 Conjugated Interleukin-6 Receptor Aptamers Selectively Kill Target Cells Upon Irradiation. Molecular Therapy - Nucleic Acids, 2014, 3, e143.	2.3	44
29	Stability of recombinant Lys25-ribonuclease T1. Biochemistry, 1990, 29, 8250-8257.	1.2	43
30	The elastic properties of single double-stranded DNA chains of different lengths as measured with optical tweezers. Colloid and Polymer Science, 2006, 284, 1325-1331.	1.0	42
31	d(GGGT)₄and r(GGGU)₄are both HIV-1 inhibitors and interleukin-6 receptor aptamers. RNA Biology, 2013, 10, 216-227.	1.5	39
32	Studies on RNase T1 mutants affecting enzyme catalysis. FEBS Journal, 1991, 197, 203-207.	0.2	37
33	Binding of vanadate (V) to ribonuclease-T1 and inosine, investigated by 15V NMR spectroscopy. Journal of Inorganic Biochemistry, 1989, 37, 141-150.	1.5	34
34	Destabilization of a Protein Helix by Electrostatic Interactions. Journal of Molecular Biology, 1995, 252, 133-143.	2.0	34
35	The small RNA RybA regulates key-genes in the biosynthesis of aromatic amino acids under peroxide stress inE. coli. RNA Biology, 2012, 9, 458-468.	1.5	34
36	Food Sensing: Aptamer-Based Trapping of Bacillus cereus Spores with Specific Detection via Real Time PCR in Milk. Journal of Agricultural and Food Chemistry, 2015, 63, 8050-8057.	2.4	34

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37	Thermally induced hydrogen exchange processes in small proteins as seen by FTIR spectroscopy. , 1996, 24, 379-387.		32
38	The complex between ribonuclease T1 and 3'GMP suggests geometry of enzymic reaction path. An X-ray study. FEBS Journal, 1993, 218, 1005-1012.	0.2	31
39	The role of the preserved sequences of Dam methylase. Nucleic Acids Research, 1993, 21, 3183-3190.	6.5	31
40	Stabilized Interleukin-6 receptor binding RNA aptamers. RNA Biology, 2014, 11, 57-65.	1.5	31
41	Selection and Characterization of an Î±6Î²4 Integrin blocking DNA Aptamer. Molecular Therapy - Nucleic Acids, 2016, 5, e294.	2.3	31
42	Nucleotide sequence of 5S ribosomal RNA from Aspergillus nidulans and Neurospora crassa. Nucleic Acids Research, 1981, 9, 1445-1450.	6.5	30
43	Indicator plates for rapid detection of ribonuclease T1 secretingEscherichia coliclones. Nucleic Acids Research, 1989, 17, 3318-3318.	6.5	30
44	Peptide Design Aided by Neural Networks:â€‰Biological Activity of Artificial Signal Peptidase I Cleavage Sites. Biochemistry, 1998, 37, 3588-3593.	1.2	28
45	Expression of Ribonuclease T1 in Escherichia Coli and Rapid Purification of the Enzyme. Nucleosides & Nucleotides, 1988, 7, 619-623.	0.5	27
46	RNase T1 mutant Glu46Gln binds the inhibitors 2â€²GMP and 2â€²AMP at the 3â€² subsite. Journal of Molecular Biology, 1992, 225, 533-542.	2.0	26
47	Determination of DNA-binding parameters for the Bacillus subtilis histone-like HBsu protein through introduction of fluorophores by site-directed mutagenesis of a synthetic gene. FEBS Journal, 1992, 207, 677-685.	0.2	26
48	Fluorescence Correlation Spectroscopy as a New Method for the Investigation of Aptamer/Target Interactions. Biological Chemistry, 2001, 382, 479-81.	1.2	26
49	Binding of TmHU to Single dsDNA as Observed by Optical Tweezers. Journal of Molecular Biology, 2006, 359, 769-776.	2.0	26
50	SDA, a DNA Aptamer Inhibiting E- and P-Selectin Mediated Adhesion of Cancer and Leukemia Cells, the First and Pivotal Step in Transendothelial Migration during Metastasis Formation. PLoS ONE, 2014, 9, e93173.	1.1	26
51	Two-dimensional 1H, 15N-NMR investigation of uniformly 15N-labeled ribonuclease T1. Complete assignment of 15N resonances. FEBS Journal, 1991, 197, 643-653.	0.2	25
52	Postpolymerization Modification Using Less Cytotoxic Activated Ester Polymers for the Synthesis of Biological Active Polymers. Biomacromolecules, 2014, 15, 3197-3205.	2.6	24
53	RAID3 - An interleukin-6 receptor-binding aptamer with post-selective modification-resistant affinity. RNA Biology, 2015, 12, 1043-1053.	1.5	23
54	Ribonuclease T1: Struktur, Funktion und StabilitÃt. Angewandte Chemie, 1991, 103, 351-369.	1.6	22

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55	Modification of Ribonuclease T1 Specificity by Random Mutagenesis of the Substrate Binding Segment,. Biochemistry, 1999, 38, 1371-1376.	1.2	22
56	Improving purification of recombinant ribonuclease T1. Journal of Biotechnology, 1992, 24, 189-194.	1.9	21
57	Characterization of a fluorophore binding RNA aptamer by fluorescence correlation spectroscopy and small angle X-ray scattering. Analytical Biochemistry, 2009, 389, 52-62.	1.1	21
58	Human Î±₂â€Macroglobulinâ€"Another Variation on the Venus Flytrap. Angewandte Chemie - International Edition, 2012, 51, 5045-5047.	7.2	21
59	Structure and target interaction of a G-quadruplex RNA-aptamer. RNA Biology, 2016, 13, 973-987.	1.5	20
60	Extended Kinetic Analysis of Ribonuclease T1 Variants Leads to an Improved Scheme for the Reaction Mechanism. Biochemical and Biophysical Research Communications, 1994, 199, 213-219.	1.0	19
61	Impact of Four 13C-Proline Isotope Labels on the Infrared Spectra of Ribonuclease T1. Journal of the American Chemical Society, 2002, 124, 6259-6264.	6.6	19
62	Size dependent targeted delivery of gold nanoparticles modified with the IL-6R-specific aptamer AIR-3A to IL-6R-carrying cells. Nanoscale, 2017, 9, 14486-14498.	2.8	19
63	Structural and functional studies of ribonuclease T1. , 1989, , 111-141.		19
64	Ribonuclease T1 has different dimensions in the thermally and chemically denatured states: a dynamic light scattering study. FEBS Letters, 1997, 403, 245-248.	1.3	18
65	His92Ala mutation in ribonuclease T1 induces segmental flexibility. Journal of Molecular Biology, 1992, 224, 701-713.	2.0	17
66	Fluorophore Binding Aptamers as a Tool for RNA Visualization. Biophysical Journal, 2009, 96, 3703-3707.	0.2	17
67	Three-dimensional Structure of a Kunitz-type Inhibitor in Complex with an Elastase-like Enzyme. Journal of Biological Chemistry, 2015, 290, 14154-14165.	1.6	17
68	Aptamers That Recognize the Lipid Moiety of the Antibiotic Moenomycin A. Biological Chemistry, 2003, 384, 1497-500.	1.2	16
69	Single and twinned crystals of ribulose-1,5-bisphosphate carboxylase-oxygenase from Alcaligenes eutrophus. Journal of Biological Chemistry, 1985, 260, 10768-70.	1.6	15
70	Expression of the chemically synthesized coding region for the cytotoxin alpha-sarcin in Escherichia coli using a secretion cloning vector. FEBS Journal, 1990, 192, 127-131.	0.2	14
71	X-ray crystallographic and calorimetric studies of the effects of the mutation Trp59 Tyr in ribonuclease T1. FEBS Journal, 1994, 220, 527-534.	0.2	14
72	The Role of a Trans-Proline in the Folding Mechanism of Ribonuclease T1. FEBS Journal, 1996, 241, 516-524.	0.2	14

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73	Bivalent monoclonal IgY antibody formats by conversion of recombinant antibody fragments. Journal of Biotechnology, 2006, 124, 446-456.	1.9	14
74	Fluorescently Labeled Substrates for Monitoring Î±1,3â€Fucosyltransferaseâ€...IX Activity. Chemistry - A European Journal, 2013, 19, 17379-17390.	1.7	14
75	SaRD, A New Protein Isolated from the Extremophile Archaeon Sulfolobus acidocaldarius, Is a Thermostable Ribonuclease with DNA-Binding Properties. Biochemical and Biophysical Research Communications, 1995, 214, 646-652.	1.0	13
76	Trp59 to Tyr substitution enhances the catalytic activity of RNase T1 and of the Tyr to Trp variants in positions 24, 42 and 45. Protein Engineering, Design and Selection, 1993, 6, 739-744.	1.0	12
77	Charomersâ€"Interleukin-6 Receptor Specific Aptamers for Cellular Internalization and Targeted Drug Delivery. International Journal of Molecular Sciences, 2017, 18, 2641.	1.8	12
78	The cloning of Aspergillus nidulans mitochondrial DNA in Escherichia coli on plasmid pBR322. Molecular Genetics and Genomics, 1981, 182, 332-335.	2.4	11
79	Synthesis and kinetic study of transition state analogs for ribonuclease T1. BBA - Proteins and Proteomics, 1991, 1118, 1-5.	2.1	11
80	Crystallization of the activated ternary complex of ribulose-1,5-bisphosphate carboxylase-oxygenase isolated from Rhodospirillum rubrum and from an Escherichia coli clone. Journal of Molecular Biology, 1985, 185, 781-783.	2.0	10
81	High-level expression of a semisynthetic dam gene in Escherichia coli. Gene, 1991, 98, 83-88.	1.0	9
82	Thermodynamic analysis of the equilibrium, association and dissociation of 2â€²GMP and 3â€²GMP with ribonuclease T1 at pH 5.3. Biochimica Et Biophysica Acta - General Subjects, 1991, 1073, 357-365.	1.1	9
83	Two variants of the major serine protease inhibitor from the sea anemone Stichodactyla helianthus, expressed in Pichia pastoris. Protein Expression and Purification, 2016, 123, 42-50.	0.6	9
84	Crystallization of and preliminary X-ray diffraction data for TET-repressor and the TET-repressor-tetracycline complex. Journal of Molecular Biology, 1984, 180, 1189-1191.	2.0	8
85	Ribonuclease Assays Utilizing Toluidine Blue Indicator Plates, Methylene Blue, or Fluorescence Correlation Spectroscopy. Methods in Enzymology, 2001, 341, 142-153.	0.4	8
86	SDA and IDA â€“ Two aptamers to inhibit cancer cell adhesion. Biochimie, 2018, 145, 84-90.	1.3	8
87	Chemical Synthesis and Cloning of a Gene Coding for Bacillus Subjilis Hbsu Protein. Nucleosides & Nucleotides, 1988, 7, 817-820.	0.5	7
88	Structural analysis of an RNase T1 variant with an altered guanine binding segment. Journal of Molecular Biology, 1999, 294, 1231-1238.	2.0	7
89	Kinetics of TmHU binding to DNA as observed by optical tweezers. Microscopy Research and Technique, 2007, 70, 938-943.	1.2	7
90	RNA dimerization monitored by fluorescence correlation spectroscopy. European Biophysics Journal, 2011, 40, 907-921.	1.2	7

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91	N-Glycosylations of human Î±1,3-fucosyltransferase IX are required for full enzyme activity. Glycobiology, 2013, 23, 559-567.	1.3	7
92	DNA Aptamers for the Malignant Transformation Marker CD24. Nucleic Acid Therapeutics, 2018, 28, 326-334.	2.0	7
93	E. coliDam activity in Hepes buffer asks for a new unit definition. Nucleic Acids Research, 1990, 18, 7189-7189.	6.5	6
94	Phage Display of RNase A and an Improved Method for Purification of Phages Displaying RNases. Biological Chemistry, 2000, 381, 179-81.	1.2	6
95	Old Codons, New Amino Acids. Angewandte Chemie - International Edition, 2004, 43, 1190-1193.	7.2	6
96	RNase T1 Variant RV Cleaves Single-Stranded RNA after Purines Due to Specific Recognition by the Asn46 Side Chain Amide. Biochemistry, 2004, 43, 2854-2862.	1.2	6
97	Ribonuclease T1 Is Active when Both Catalytic Histidines Are Replaced by Aspartate. Biological Chemistry, 1997, 378, 553-558.	1.2	5
98	Overproduction of Sac7d and Sac7e Reveals Only Sac7e to Be a DNA-Binding Protein with Ribonuclease Activity from the Extremophilic Archaeon Sulfolobus acidocaldarius. Biological Chemistry, 1997, 378, 545-51.	1.2	5
99	Conformation of thermally denatured RNase T1 with intact disulfide bonds: A study by small-angle X-ray scattering. BBA - Proteins and Proteomics, 1997, 1340, 235-244.	2.1	5
100	Comparison of expression systems for human fucosyltransferase IX. European Journal of Cell Biology, 2010, 89, 35-38.	1.6	5
101	Synthesis and analysis of potential Î±1,3-fucosyltransferase inhibitors. Bioorganic and Medicinal Chemistry, 2014, 22, 6430-6437.	1.4	5
102	Synthesis of highly radioactively labelled RNA hybridization probes from synthetic single stranded DNA oligonucleotides. Nucleic Acids Research, 1987, 15, 858-858.	6.5	4
103	Impact of point mutations and amino acid modifications on the structure and stability of peptides and proteins probed by FT-IR spectroscopy. Journal of Molecular Structure, 1995, 348, 5-8.	1.8	4
104	Nano-electrospray mass spectrometry with a modified commercial IonSpray source. Rapid Communications in Mass Spectrometry, 2000, 14, 1307-1308.	0.7	4
105	Addressing the Challenge of Changing the Specificity of RNase T1 with Rational and Evolutionary Approaches. ChemBioChem, 2004, 5, 200-205.	1.3	4
106	Aptamers to Small Molecules. , 2006, , 94-115.		4
107	A fluorescence correlation spectroscopy-based enzyme assay for human Dicer. Biological Chemistry, 2012, 393, 187-193.	1.2	4
108	Analysis of the RNase T1 Mediated Cleavage of an Immobilized Gapped Heteroduplex via Fluorescence Correlation Spectroscopy. Biological Chemistry, 2000, 381, 259-63.	1.2	3

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109	Fluorescence Correlation Spectroscopy (FCS)-Based Characterisation of Aptamer Ligand Interaction. Methods in Molecular Biology, 2009, 535, 107-114.	0.4	3
110	SELEX of Cell-Specific RNA Aptamers. Methods in Molecular Biology, 2016, 1380, 21-32.	0.4	3
111	Sequencin refractory GC rich regions in plasmid DNA. Nucleic Acids Research, 1987, 15, 2779-2779.	6.5	2
112	Synthesis of the Bacillus subtilis histone-like DNA-binding protein HBsu in Escherichia coli and secretion into the periplasm. Gene, 1993, 124, 99-103.	1.0	2
113	Display Of Ribonuclease T1 On The Surface Of Bacteriophage M13. Nucleosides & Nucleotides, 1997, 16, 727-732.	0.5	2
114	Reverse Action of Ribonuclease T1 Variants In ICE. Nucleosides & Nucleotides, 1998, 17, 1267-1274.	0.5	2
115	Ribonuclease T1 Cleaves RNA After Guanosines Within Single-Stranded Gaps of Any Length. Nucleosides, Nucleotides and Nucleic Acids, 2000, 19, 1101-1109.	0.4	2
116	Selection of Aptamers. , 2005, , 65-86.		2
117	RNase-Stable RNA: Conformational Parameters of the Nucleic Acid Backbone for Binding to RNase T1. Biological Chemistry, 2001, 382, 1007-17.	1.2	1
118	Purine activity of RNase T1RV is further improved by substitution of Trp59 by tyrosine. Biochemical and Biophysical Research Communications, 2005, 336, 882-889.	1.0	1
119	Exploring RNA Oligomerization and Ligand Binding by Fluorescence Correlation Spectroscopy and Small Angle X-Ray Scattering. Methods in Molecular Biology, 2014, 1086, 321-334.	0.4	1
120	Highlight: Evolution in Vivo, in Vitro and in Machina. Biological Chemistry, 2001, 382, .	1.2	0
121	Old Codons, New Amino Acids. ChemInform, 2004, 35, no.	0.1	0
122	Tagging Glycoproteins with Fluorescently Labeled GDPâ€Fucoses by Using Î±1,3â€Fucosyltransferases. ChemBioChem, 2015, 16, 1919-1924.	1.3	0
123	A Fluorescence Correlation Spectroscopy-Based Enzyme Assay for Human Dicer. Methods in Molecular Biology, 2014, 1095, 103-108.	0.4	0
124	Aptamers as Molecular Smugglers. , 2014, , 271-292.		0
125	Secondary Structure and Unfolding of Wild-Type Ribonuclease T1 and Mutants that Affect Enzyme Catalysis - A Fourier Transform Infrared Spectroscopic Study. , 1993, , 361-364.		0