

Ulrich Hahn

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5518763/publications.pdf>

Version: 2024-02-01

125
papers

5,033
citations

117625

34
h-index

95266

68
g-index

130
all docs

130
docs citations

130
times ranked

4229
citing authors

#	ARTICLE	IF	CITATIONS
1	A general method for rapid site-directed mutagenesis using the polymerase chain reaction. <i>Gene</i> , 1990, 96, 125-128.	2.2	735
2	Contribution of hydrogen bonding to the conformational stability of ribonuclease T1. <i>Biochemistry</i> , 1992, 31, 725-732.	2.5	303
3	Resveratrol Is Absorbed in the Small Intestine as Resveratrol Glucuronide. <i>Biochemical and Biophysical Research Communications</i> , 2000, 272, 212-217.	2.1	221
4	Novel biomarkers of the metabolism of caffeic acid derivatives in vivo. <i>Free Radical Biology and Medicine</i> , 2001, 30, 1213-1222.	2.9	214
5	Epicatechin and Catechin are O-Methylated and Glucuronidated in the Small Intestine. <i>Biochemical and Biophysical Research Communications</i> , 2000, 277, 507-512.	2.1	193
6	Folding of ribonuclease T1. 1. Existence of multiple unfolded states created by proline isomerization. <i>Biochemistry</i> , 1990, 29, 3053-3061.	2.5	174
7	Secondary Structure and Temperature-induced Unfolding and Refolding of Ribonuclease T1 in Aqueous Solution. <i>Journal of Molecular Biology</i> , 1993, 232, 967-981.	4.2	151
8	Folding of ribonuclease T1. 2. Kinetic models for the folding and unfolding reactions. <i>Biochemistry</i> , 1990, 29, 3061-3070.	2.5	145
9	Ribonuclease T1: Structure, Function, and Stability. <i>Angewandte Chemie International Edition in English</i> , 1991, 30, 343-360.	4.4	144
10	Replacement of a cis proline simplifies the mechanism of ribonuclease T1 folding. <i>Biochemistry</i> , 1990, 29, 6475-6480.	2.5	140
11	Molecular Characterization of the 56-kDa CYP153 from <i>Acinetobacter</i> sp. EB104. <i>Biochemical and Biophysical Research Communications</i> , 2001, 286, 652-658.	2.1	121
12	Impact of Point Mutations on the Structure and Thermal Stability of Ribonuclease T1 in Aqueous Solution Probed by Fourier Transform Infrared Spectroscopy. <i>Biochemistry</i> , 1994, 33, 10725-10730.	2.5	101
13	Epicatechin and its in vivo metabolite, 3-O-methyl epicatechin, protect human fibroblasts from oxidative-stress-induced cell death involving caspase-3 activation. <i>Biochemical Journal</i> , 2001, 354, 493.	3.7	99
14	Expression of the chemically synthesized gene for ribonuclease T1 in <i>Escherichia coli</i> using a secretion cloning vector. <i>FEBS Journal</i> , 1988, 173, 617-622.	0.2	87
15	Cell-Specific Aptamers as Emerging Therapeutics. <i>Journal of Nucleic Acids</i> , 2011, 2011, 1-18.	1.2	79
16	Split gene for mitochondrial 24S ribosomal RNA of <i>Neurospora crassa</i> . <i>Cell</i> , 1979, 17, 191-200.	28.9	75
17	Stability and Folding Kinetics of Ribonuclease T1 are Strongly Altered by the Replacement of Cis-proline 39 with Alanine. <i>Journal of Molecular Biology</i> , 1993, 231, 897-912.	4.2	74
18	Cloning of a full-length complementary DNA for fatty-acid-binding protein from bovine heart. <i>FEBS Journal</i> , 1988, 175, 549-556.	0.2	67

#	ARTICLE	IF	CITATIONS
19	Interleukin-6 receptor specific RNA aptamers for cargo delivery into target cells. <i>RNA Biology</i> , 2012, 9, 67-80.	3.1	58
20	Consensus structure and evolution of 5S rRNA. <i>Nucleic Acids Research</i> , 1983, 11, 893-900.	14.5	55
21	Aptamers that bind to the antibiotic moenomycin A. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 2557-2563.	3.0	54
22	Aptamers as Drug Delivery Vehicles. <i>ChemMedChem</i> , 2014, 9, 1998-2011.	3.2	50
23	A General Ribonuclease Assay Using Methylene Blue. <i>Analytical Biochemistry</i> , 1996, 240, 24-28.	2.4	49
24	An Aptamer Intrinsically Comprising 5-Fluoro-2-Deoxyuridine for Targeted Chemotherapy. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10541-10544.	13.8	49
25	Folding of RNase T1 is decelerated by a specific tertiary contact in a folding intermediate. <i>Proteins: Structure, Function and Bioinformatics</i> , 1992, 12, 171-179.	2.6	47
26	Protein dynamics. <i>Biophysical Chemistry</i> , 1987, 26, 247-261.	2.8	45
27	Physical map of <i>Aspergillus nidulans</i> mitochondrial genes coding for ribosomal RNA: An intervening sequence in the large rRNA cistron. <i>Molecular Genetics and Genomics</i> , 1980, 177, 389-397.	2.4	44
28	Chlorin e6 Conjugated Interleukin-6 Receptor Aptamers Selectively Kill Target Cells Upon Irradiation. <i>Molecular Therapy - Nucleic Acids</i> , 2014, 3, e143.	5.1	44
29	Stability of recombinant Lys25-ribonuclease T1. <i>Biochemistry</i> , 1990, 29, 8250-8257.	2.5	43
30	The elastic properties of single double-stranded DNA chains of different lengths as measured with optical tweezers. <i>Colloid and Polymer Science</i> , 2006, 284, 1325-1331.	2.1	42
31	d(GGGT) ₄ and r(GGGU) ₄ are both HIV-1 inhibitors and interleukin-6 receptor aptamers. <i>RNA Biology</i> , 2013, 10, 216-227.	3.1	39
32	Studies on RNase T1 mutants affecting enzyme catalysis. <i>FEBS Journal</i> , 1991, 197, 203-207.	0.2	37
33	Binding of vanadate (V) to ribonuclease-T1 and inosine, investigated by 15V NMR spectroscopy. <i>Journal of Inorganic Biochemistry</i> , 1989, 37, 141-150.	3.5	34
34	Destabilization of a Protein Helix by Electrostatic Interactions. <i>Journal of Molecular Biology</i> , 1995, 252, 133-143.	4.2	34
35	The small RNA RybA regulates key-genes in the biosynthesis of aromatic amino acids under peroxide stress in <i>E. coli</i> . <i>RNA Biology</i> , 2012, 9, 458-468.	3.1	34
36	Food Sensing: Aptamer-Based Trapping of <i>Bacillus cereus</i> Spores with Specific Detection via Real Time PCR in Milk. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 8050-8057.	5.2	34

#	ARTICLE	IF	CITATIONS
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.	14.5	31
40	Stabilized Interleukin-6 receptor binding RNA aptamers. RNA Biology, 2014, 11, 57-65.	3.1	31
41	Selection and Characterization of an $\hat{I}\pm 6\hat{I}^{24}$ Integrin blocking DNA Aptamer. Molecular Therapy - Nucleic Acids, 2016, 5, e294.	5.1	31
42	Nucleotide sequence of 5S ribosomal RNA from <i>Aspergillus nidulans</i> and <i>Neurospora crassa</i> . Nucleic Acids Research, 1981, 9, 1445-1450.	14.5	30
43	Indicator plates for rapid detection of ribonuclease T1 secreting <i>Escherichia coli</i> clones. Nucleic Acids Research, 1989, 17, 3318-3318.	14.5	30
44	Peptide Design Aided by Neural Networks: Biological Activity of Artificial Signal Peptidase I Cleavage Sites. Biochemistry, 1998, 37, 3588-3593.	2.5	28
45	Expression of Ribonuclease T1 in <i>Escherichia coli</i> 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.	4.2	26
47	Determination of DNA-binding parameters for the <i>Bacillus subtilis</i> 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.	2.5	26
49	Binding of TmHU to Single dsDNA as Observed by Optical Tweezers. Journal of Molecular Biology, 2006, 359, 769-776.	4.2	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.	2.5	26
51	Two-dimensional ¹ H, ¹⁵ N-NMR investigation of uniformly ¹⁵ N-labeled ribonuclease T1. Complete assignment of ¹⁵ N 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.	5.4	24
53	RAID3 - An interleukin-6 receptor-binding aptamer with post-selective modification-resistant affinity. RNA Biology, 2015, 12, 1043-1053.	3.1	23
54	Ribonuclease T1: Struktur, Funktion und Stabilität. Angewandte Chemie, 1991, 103, 351-369.	2.0	22

#	ARTICLE	IF	CITATIONS
55	Modification of Ribonuclease T1 Specificity by Random Mutagenesis of the Substrate Binding Segment. Biochemistry, 1999, 38, 1371-1376.	2.5	22
56	Improving purification of recombinant ribonuclease T1. Journal of Biotechnology, 1992, 24, 189-194.	3.8	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.	2.4	21
58	Human Î± ₂ Macroglobulin Another Variation on the Venus Flytrap. Angewandte Chemie - International Edition, 2012, 51, 5045-5047.	13.8	21
59	Structure and target interaction of a G-quadruplex RNA-aptamer. RNA Biology, 2016, 13, 973-987.	3.1	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.	2.1	19
61	Impact of Four ¹³ C-Proline Isotope Labels on the Infrared Spectra of Ribonuclease T1. Journal of the American Chemical Society, 2002, 124, 6259-6264.	13.7	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.	5.6	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.	2.8	18
65	His92Ala mutation in ribonuclease T1 induces segmental flexibility. Journal of Molecular Biology, 1992, 224, 701-713.	4.2	17
66	Fluorophore Binding Aptamers as a Tool for RNA Visualization. Biophysical Journal, 2009, 96, 3703-3707.	0.5	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.	3.4	17
68	Aptamers That Recognize the Lipid Moiety of the Antibiotic Moenomycin A. Biological Chemistry, 2003, 384, 1497-500.	2.5	16
69	Single and twinned crystals of ribulose-1,5-bisphosphate carboxylase-oxygenase from Alcaligenes eutrophus. Journal of Biological Chemistry, 1985, 260, 10768-70.	3.4	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 <i>Trans</i> -Proline in the Folding Mechanism of Ribonuclease T1. FEBS Journal, 1996, 241, 516-524.	0.2	14

#	ARTICLE	IF	CITATIONS
73	Bivalent monoclonal IgY antibody formats by conversion of recombinant antibody fragments. <i>Journal of Biotechnology</i> , 2006, 124, 446-456.	3.8	14
74	Fluorescently Labeled Substrates for Monitoring α 1,3-Fucosyltransferase IX Activity. <i>Chemistry - A European Journal</i> , 2013, 19, 17379-17390.	3.3	14
75	SaRD, A New Protein Isolated from the Extremophile Archaeon <i>Sulfolobus acidocaldarius</i> , Is a Thermostable Ribonuclease with DNA-Binding Properties. <i>Biochemical and Biophysical Research Communications</i> , 1995, 214, 646-652.	2.1	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. <i>Protein Engineering, Design and Selection</i> , 1993, 6, 739-744.	2.1	12
77	Charomers' Interleukin-6 Receptor Specific Aptamers for Cellular Internalization and Targeted Drug Delivery. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2641.	4.1	12
78	The cloning of <i>Aspergillus nidulans</i> mitochondrial DNA in <i>Escherichia coli</i> on plasmid pBR322. <i>Molecular Genetics and Genomics</i> , 1981, 182, 332-335.	2.4	11
79	Synthesis and kinetic study of transition state analogs for ribonuclease T1. <i>BBA - Proteins and Proteomics</i> , 1991, 1118, 1-5.	2.1	11
80	Crystallization of the activated ternary complex of ribulose-1,5-bisphosphate carboxylase-oxygenase isolated from <i>Rhodospirillum rubrum</i> and from an <i>Escherichia coli</i> clone. <i>Journal of Molecular Biology</i> , 1985, 185, 781-783.	4.2	10
81	High-level expression of a semisynthetic dam gene in <i>Escherichia coli</i> . <i>Gene</i> , 1991, 98, 83-88.	2.2	9
82	Thermodynamic analysis of the equilibrium, association and dissociation of 2 α -GMP and 3 α -GMP with ribonuclease T1 at pH 5.3. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1991, 1073, 357-365.	2.4	9
83	Two variants of the major serine protease inhibitor from the sea anemone <i>Stichodactyla helianthus</i> , expressed in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2016, 123, 42-50.	1.3	9
84	Crystallization of and preliminary X-ray diffraction data for TET-repressor and the TET-repressor-tetracycline complex. <i>Journal of Molecular Biology</i> , 1984, 180, 1189-1191.	4.2	8
85	Ribonuclease Assays Utilizing Toluidine Blue Indicator Plates, Methylene Blue, or Fluorescence Correlation Spectroscopy. <i>Methods in Enzymology</i> , 2001, 341, 142-153.	1.0	8
86	SDA and IDA – Two aptamers to inhibit cancer cell adhesion. <i>Biochimie</i> , 2018, 145, 84-90.	2.6	8
87	Chemical Synthesis and Cloning of a Gene Coding for <i>Bacillus Subjilis</i> Hbsu Protein. <i>Nucleosides & Nucleotides</i> , 1988, 7, 817-820.	0.5	7
88	Structural analysis of an RNase T1 variant with an altered guanine binding segment. <i>Journal of Molecular Biology</i> , 1999, 294, 1231-1238.	4.2	7
89	Kinetics of TmHU binding to DNA as observed by optical tweezers. <i>Microscopy Research and Technique</i> , 2007, 70, 938-943.	2.2	7
90	RNA dimerization monitored by fluorescence correlation spectroscopy. <i>European Biophysics Journal</i> , 2011, 40, 907-921.	2.2	7

#	ARTICLE	IF	CITATIONS
91	N-Glycosylations of human α 1,3-fucosyltransferase IX are required for full enzyme activity. <i>Glycobiology</i> , 2013, 23, 559-567.	2.5	7
92	DNA Aptamers for the Malignant Transformation Marker CD24. <i>Nucleic Acid Therapeutics</i> , 2018, 28, 326-334.	3.6	7
93	<i>E. coli</i> Dam activity in Hepes buffer asks for a new unit definition. <i>Nucleic Acids Research</i> , 1990, 18, 7189-7189.	14.5	6
94	Phage Display of RNase A and an Improved Method for Purification of Phages Displaying RNases. <i>Biological Chemistry</i> , 2000, 381, 179-81.	2.5	6
95	Old Codons, New Amino Acids. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1190-1193.	13.8	6
96	RNase T1 Variant RV Cleaves Single-Stranded RNA after Purines Due to Specific Recognition by the Asn46 Side Chain Amide. <i>Biochemistry</i> , 2004, 43, 2854-2862.	2.5	6
97	Ribonuclease T1 Is Active when Both Catalytic Histidines Are Replaced by Aspartate. <i>Biological Chemistry</i> , 1997, 378, 553-558.	2.5	5
98	Overproduction of Sac7d and Sac7e Reveals Only Sac7e to Be a DNA-Binding Protein with Ribonuclease Activity from the Extremophilic Archaeon <i>Sulfolobus acidocaldarius</i> . <i>Biological Chemistry</i> , 1997, 378, 545-51.	2.5	5
99	Conformation of thermally denatured RNase T1 with intact disulfide bonds: A study by small-angle X-ray scattering. <i>BBA - Proteins and Proteomics</i> , 1997, 1340, 235-244.	2.1	5
100	Comparison of expression systems for human fucosyltransferase IX. <i>European Journal of Cell Biology</i> , 2010, 89, 35-38.	3.6	5
101	Synthesis and analysis of potential α 1,3-fucosyltransferase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 6430-6437.	3.0	5
102	Synthesis of highly radioactively labelled RNA hybridization probes from synthetic single stranded DNA oligonucleotides. <i>Nucleic Acids Research</i> , 1987, 15, 858-858.	14.5	4
103	Impact of point mutations and amino acid modifications on the structure and stability of peptides and proteins probed by FT-IR spectroscopy. <i>Journal of Molecular Structure</i> , 1995, 348, 5-8.	3.6	4
104	Nano-electrospray mass spectrometry with a modified commercial IonSpray source. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1307-1308.	1.5	4
105	Addressing the Challenge of Changing the Specificity of RNase T1 with Rational and Evolutionary Approaches. <i>ChemBioChem</i> , 2004, 5, 200-205.	2.6	4
106	Aptamers to Small Molecules. , 2006, , 94-115.		4
107	A fluorescence correlation spectroscopy-based enzyme assay for human Dicer. <i>Biological Chemistry</i> , 2012, 393, 187-193.	2.5	4
108	Analysis of the RNase T1 Mediated Cleavage of an Immobilized Gapped Heteroduplex via Fluorescence Correlation Spectroscopy. <i>Biological Chemistry</i> , 2000, 381, 259-63.	2.5	3

#	ARTICLE	IF	CITATIONS
109	Fluorescence Correlation Spectroscopy (FCS)-Based Characterisation of Aptamer Ligand Interaction. <i>Methods in Molecular Biology</i> , 2009, 535, 107-114.	0.9	3
110	SELEX of Cell-Specific RNA Aptamers. <i>Methods in Molecular Biology</i> , 2016, 1380, 21-32.	0.9	3
111	Sequencing refractory GC rich regions in plasmid DNA. <i>Nucleic Acids Research</i> , 1987, 15, 2779-2779.	14.5	2
112	Synthesis of the <i>Bacillus subtilis</i> histone-like DNA-binding protein HBSu in <i>Escherichia coli</i> and secretion into the periplasm. <i>Gene</i> , 1993, 124, 99-103.	2.2	2
113	Display Of Ribonuclease T1 On The Surface Of Bacteriophage M13. <i>Nucleosides & Nucleotides</i> , 1997, 16, 727-732.	0.5	2
114	Reverse Action of Ribonuclease T1 Variants In ICE. <i>Nucleosides & Nucleotides</i> , 1998, 17, 1267-1274.	0.5	2
115	Ribonuclease T1 Cleaves RNA After Guanosines Within Single-Stranded Gaps of Any Length. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000, 19, 1101-1109.	1.1	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. <i>Biological Chemistry</i> , 2001, 382, 1007-17.	2.5	1
118	Purine activity of RNase T1RV is further improved by substitution of Trp59 by tyrosine. <i>Biochemical and Biophysical Research Communications</i> , 2005, 336, 882-889.	2.1	1
119	Exploring RNA Oligomerization and Ligand Binding by Fluorescence Correlation Spectroscopy and Small Angle X-Ray Scattering. <i>Methods in Molecular Biology</i> , 2014, 1086, 321-334.	0.9	1
120	Highlight: Evolution in Vivo, in Vitro and in Machina. <i>Biological Chemistry</i> , 2001, 382, .	2.5	0
121	Old Codons, New Amino Acids. <i>ChemInform</i> , 2004, 35, no.	0.0	0
122	Tagging Glycoproteins with Fluorescently Labeled GDP-Fucoses by Using α 1,3-Fucosyltransferases. <i>ChemBioChem</i> , 2015, 16, 1919-1924.	2.6	0
123	A Fluorescence Correlation Spectroscopy-Based Enzyme Assay for Human Dicer. <i>Methods in Molecular Biology</i> , 2014, 1095, 103-108.	0.9	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