Ronald Micura

List of Publications by Year
in descending order

151 papers	7,697 citations	41344 49 h-index	62596 80 g-index
172 all docs	172 docs citations	172 times ranked	6601 citing authors

#	Article	IF	Citations
1	Synthesis of 4-thiouridines with prodrug functionalization for RNA metabolic labeling. RSC Chemical Biology, 2022, 3, 447-455.	4.1	4
2	Structural basis for the context-specific action of the classic peptidyl transferase inhibitor chloramphenicol. Nature Structural and Molecular Biology, 2022, 29, 152-161.	8.2	38
3	Synthesis of N4-acetylated 3-methylcytidine phosphoramidites for RNA solid-phase synthesis. Monatshefte FÃ¼r Chemie, 2022, 153, 285-291.	1.8	3
4	Sister chromatidâ€"sensitive Hi-C to map the conformation of replicated genomes. Nature Protocols, 2022, 17, 1486-1517.	12.0	8
5	1-Deazaguanosine-Modified RNA: The Missing Piece for Functional RNA Atomic Mutagenesis. Journal of the American Chemical Society, 2022, 144, 10344-10352.	13.7	7
6	Towards a comprehensive understanding of RNA deamination: synthesis and properties of xanthosine-modified RNA. Nucleic Acids Research, 2022, 50, 6038-6051.	14.5	7
7	Amineâ€toâ€Azide Conversion on Native RNA via Metalâ€Free Diazotransfer Opens New Avenues for RNA Manipulations. Angewandte Chemie - International Edition, 2021, 60, 6970-6974.	13.8	12
8	Amineâ€toâ€Azide Conversion on Native RNA via Metalâ€Free Diazotransfer Opens New Avenues for RNA Manipulations. Angewandte Chemie, 2021, 133, 7046-7050.	2.0	0
9	Impact of 3-deazapurine nucleobases on RNA properties. Nucleic Acids Research, 2021, 49, 4281-4293.	14.5	11
10	Insights into xanthine riboswitch structure and metal ion-mediated ligand recognition. Nucleic Acids Research, 2021, 49, 7139-7153.	14.5	15
11	A natural riboswitch scaffold with self-methylation activity. Nature Communications, 2021, 12, 3877.	12.8	24
12	Synthesis of <i>O</i>⁶-alkylated preQ₁ derivatives. Beilstein Journal of Organic Chemistry, 2021, 17, 2295-2301.	2.2	4
13	Practical Synthesis of Capâ€4 RNA. ChemBioChem, 2020, 21, 265-271.	2.6	9
14	Crucial Roles of Two Hydrated Mg 2+ Ions in Reaction Catalysis of the Pistol Ribozyme. Angewandte Chemie, 2020, 132, 2859-2865.	2.0	7
15	Crucial Roles of Two Hydrated Mg 2+ Ions in Reaction Catalysis of the Pistol Ribozyme. Angewandte Chemie - International Edition, 2020, 59, 2837-2843.	13.8	24
16	2â€²-<i>O</i>-Trifluoromethylated RNA â€" a powerful modification for RNA chemistry and NMR spectroscopy. Chemical Science, 2020, 11, 11322-11330.	7.4	18
17	Structural distinctions between NAD+ riboswitch domains 1 and 2 determine differential folding and ligand binding. Nucleic Acids Research, 2020, 48, 12394-12406.	14.5	22
18	Conformation of sister chromatids in the replicated human genome. Nature, 2020, 586, 139-144.	27.8	68

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19	Fundamental studies of functional nucleic acids: aptamers, riboswitches, ribozymes and DNAzymes. Chemical Society Reviews, 2020, 49, 7331-7353.	38.1	130
20	Machine learning of reverse transcription signatures of variegated polymerases allows mapping and discrimination of methylated purines in limited transcriptomes. Nucleic Acids Research, 2020, 48, 3734-3746.	14.5	45
21	Thioguanosine Conversion Enables mRNAâ€Lifetime Evaluation by RNA Sequencing Using Double Metabolic Labeling (TUCâ€seq DUAL). Angewandte Chemie, 2020, 132, 6948-6953.	2.0	3
22	Thioguanosine Conversion Enables mRNAâ€Lifetime Evaluation by RNA Sequencing Using Double Metabolic Labeling (TUCâ€seq DUAL). Angewandte Chemie - International Edition, 2020, 59, 6881-6886.	13.8	26
23	Thiouridine-to-Cytidine Conversion Sequencing (TUC-Seq) to Measure mRNA Transcription and Degradation Rates. Methods in Molecular Biology, 2020, 2062, 191-211.	0.9	19
24	Practical synthesis of N-(di-n-butylamino)methylene-protected 2-aminopurine riboside phosphoramidite for RNA solid-phase synthesis. Monatshefte FÃ¼r Chemie, 2019, 150, 1941-1946.	1.8	1
25	The effect of adenine protonation on RNA phosphodiester backbone bond cleavage elucidated by deaza-nucleobase modifications and mass spectrometry. Nucleic Acids Research, 2019, 47, 7223-7234.	14.5	16
26	Structural insights into synthetic ligands targeting Aâ€“A pairs in disease-related CAG RNA repeats. Nucleic Acids Research, 2019, 47, 10906-10913.	14.5	23
27	Access to 3-Deazaguanosine Building Blocks for RNA Solid-Phase Synthesis Involving Hartwigâ€“Buchwald Câ€“N Cross-Coupling. Organic Letters, 2019, 21, 3900-3903.	4.6	9
28	Hatchet ribozyme structure and implications for cleavage mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10783-10791.	7.1	28
29	Efficient access to N-trifluoroacetylated 2â€²-amino-2â€²-deoxyadenosine phosphoramidite for RNA solid-phase synthesis. Monatshefte FÃ¼r Chemie, 2019, 150, 795-800.	1.8	4
30	Mechanistic insights into the slow peptide bond formation with D-amino acids in the ribosomal active site. Nucleic Acids Research, 2019, 47, 2089-2100.	14.5	36
31	Design of cross-linked RNA/protein complexes for structural studies. Biochimie, 2019, 164, 95-98.	2.6	1
32	SAM-VI riboswitch structure and signature for ligand discrimination. Nature Communications, 2019, 10, 5728.	12.8	28
33	Translation of non-standard codon nucleotides reveals minimal requirements for codon-anticodon interactions. Nature Communications, 2018, 9, 4865.	12.8	33
34	Superior cellular activities of azido- over amino-functionalized ligands for engineered preQ₁riboswitches in<i>E.coli</i>. RNA Biology, 2018, 15, 1376-1383.	3.1	11
35	SHAPE probing pictures Mg2+-dependent folding of small self-cleaving ribozymes. Nucleic Acids Research, 2018, 46, 6983-6995.	14.5	12
36	Distinct 5-methylcytosine profiles in poly(A) RNA from mouse embryonic stem cells and brain. Genome Biology, 2017, 18, 1.	8.8	587

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37	Pseudoknot Formation Seeds the Twister Ribozyme Cleavage Reaction Coordinate. Journal of the American Chemical Society, 2017, 139, 8186-8193.	13.7	33
38	Label-free, direct localization and relative quantitation of the RNA nucleobase methylations m6A, m5C, m3U, and m5U by top-down mass spectrometry. Nucleic Acids Research, 2017, 45, 8014-8025.	14.5	38
39	Automated Chemical Solid-Phase Synthesis and Deprotection of 5-Hydroxymethylcytosine-Containing RNA. Methods in Molecular Biology, 2017, 1562, 295-302.	0.9	1
40	An Unconventional Acidâ€Labile Nucleobase Protection Concept for Guanosine Phosphoramidites in RNA Solidâ€Phase Synthesis. Chemistry - A European Journal, 2017, 23, 3406-3413.	3.3	8
41	The synthesis of 15N(7)-Hoogsteen face-labeled adenosine phosphoramidite for solid-phase RNA synthesis. Monatshefte FÃ¼r Chemie, 2017, 148, 149-155.	1.8	11
42	Structure-based insights into self-cleavage by a four-way junctional twister-sister ribozyme. Nature Communications, 2017, 8, 1180.	12.8	30
43	Atomâ€Specific Mutagenesis Reveals Structural and Catalytic Roles for an Activeâ€Site Adenosine and Hydrated Mg²⁺ in Pistol Ribozymes. Angewandte Chemie - International Edition, 2017, 56, 15954-15958.	13.8	29
44	Conformational and chemical selection by a <i>trans</i> -acting editing domain. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6774-E6783.	7.1	19
45	Osmiumâ€Mediated Transformation of 4â€Thiouridine to Cytidine as Key To Study RNA Dynamics by Sequencing. Angewandte Chemie - International Edition, 2017, 56, 13479-13483.	13.8	73
46	Osmiumâ€Mediated Transformation of 4â€Thiouridine to Cytidine as Key To Study RNA Dynamics by Sequencing. Angewandte Chemie, 2017, 129, 13664-13668.	2.0	7
47	Atomâ€Specific Mutagenesis Reveals Structural and Catalytic Roles for an Activeâ€Site Adenosine and Hydrated Mg²⁺ in Pistol Ribozymes. Angewandte Chemie, 2017, 129, 16170-16174.	2.0	4
48	Structure-based mechanistic insights into catalysis by small self-cleaving ribozymes. Current Opinion in Chemical Biology, 2017, 41, 71-83.	6.1	56
49	Synthesis, Thermodynamic Properties, and Crystal Structure of RNA Oligonucleotides Containing 5-Hydroxymethylcytosine. Journal of Organic Chemistry, 2017, 82, 7939-7945.	3.2	8
50	Unwinding the twister ribozyme: from structure to mechanism. Wiley Interdisciplinary Reviews RNA, 2017, 8, e1402.	6.4	38
51	Facile synthesis of a 3-deazaadenosine phosphoramidite for RNA solid-phase synthesis. Beilstein Journal of Organic Chemistry, 2016, 12, 2556-2562.	2.2	11
52	Molecular insights into protein synthesis with proline residues. EMBO Reports, 2016, 17, 1776-1784.	4.5	73
53	Chemical synthesis of RNA with site-specific methylphosphonate modifications. Methods, 2016, 107, 79-88.	3.8	7
54	Crystal Structure of Hypusine-Containing Translation Factor eIF5A Bound to a Rotated Eukaryotic Ribosome. Journal of Molecular Biology, 2016, 428, 3570-3576.	4.2	53

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55	Binding of Macrolide Antibiotics Leads to Ribosomal Selection against Specific Substrates Based on Their Charge and Size. Cell Reports, 2016, 16, 1789-1799.	6.4	33
56	Pistol ribozyme adopts a pseudoknot fold facilitating site-specific in-line cleavage. Nature Chemical Biology, 2016, 12, 702-708.	8.0	78
57	Synthesis of 5-Hydroxymethylcytidine- and 5-HydroxymethylÂuridine-Modified RNA. Synthesis, 2016, 48, 1108-1116.	2.3	8
58	Conformational Rearrangements of Individual Nucleotides during RNA-Ligand Binding Are Rate-Differentiated. Journal of the American Chemical Society, 2016, 138, 3627-3630.	13.7	20
59	Ligandâ€Detected Relaxation Dispersion NMR Spectroscopy: Dynamics of preQ₁â€"RNA Binding. Angewandte Chemie - International Edition, 2015, 54, 560-563.	13.8	28
60	Expanding the Scope of 2â€²â€SCF₃ Modified RNA. Chemistry - A European Journal, 2015, 21, 10400-10407.	3.3	12
61	Native Chemical Ligation of Hydrolysisâ€Resistant 3â€²â€NHâ€Cysteineâ€Modified RNA. Current Protocols in Nucleic Acid Chemistry, 2015, 62, 4.64.1-4.64.36.	0.5	4
62	The â€œSpeedyâ€•Synthesis of Atomâ€Specific ¹⁵N Imino/Amidoâ€Labeled RNA. Chemistry - A European Journal, 2015, 21, 11634-11643.	3.3	44
63	A Miniâ€Twister Variant and Impact of Residues/Cations on the Phosphodiester Cleavage of this Ribozyme Class. Angewandte Chemie - International Edition, 2015, 54, 15128-15133.	13.8	51
64	On the mechanism of RNA phosphodiester backbone cleavage in the absence of solvent. Nucleic Acids Research, 2015, 43, 5171-5181.	14.5	23
65	Role of a ribosomal RNA phosphate oxygen during the EF-Gâ€"triggered GTP hydrolysis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2561-8.	7.1	28
66	Syntheses of ¹⁵N-labeled pre-queuosine nucleobase derivatives. Beilstein Journal of Organic Chemistry, 2014, 10, 1914-1918.	2.2	6
67	In-line alignment and Mg2+ coordination at the cleavage site of the env22 twister ribozyme. Nature Communications, 2014, 5, 5534.	12.8	84
68	Dye label interference with RNA modification reveals 5-fluorouridine as non-covalent inhibitor. Nucleic Acids Research, 2014, 42, 12735-12745.	14.5	10
69	Synthesis of aminoacylated N6,N6-dimethyladenosine solid support for efficient access to hydrolysis-resistant 3â€²-charged tRNA mimics. Bioorganic and Medicinal Chemistry, 2014, 22, 6989-6995.	3.0	5
70	Efficient Access to 3â€²-Terminal Azide-Modified RNA for Inverse Click-Labeling Patterns. Bioconjugate Chemistry, 2014, 25, 188-195.	3.6	47
71	Surprising Base Pairing and Structural Properties of 2â€²-Trifluoromethylthio-Modified Ribonucleic Acids. Journal of the American Chemical Society, 2014, 136, 6656-6663.	13.7	32
72	Use of SHAPE to Select 2AP Substitution Sites for RNAâ€"Ligand Interactions and Dynamics Studies. Methods in Molecular Biology, 2014, 1103, 227-239.	0.9	6

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73	New Insights into Gene Regulationâ€"Highâ€Resolution Structures of Cobalamin Riboswitches. Angewandte Chemie - International Edition, 2013, 52, 1874-1877.	13.8	8
74	The Synthesis of Methylated, Phosphorylated, and Phosphonated 3â€²â€Aminoacylâ€tRNA^{Sec} Mimics. Chemistry - A European Journal, 2013, 19, 15872-15878.	3.3	15
75	Thermodynamics of HIV-1 Reverse Transcriptase in Action Elucidates the Mechanism of Action of Non-Nucleoside Inhibitors. Journal of the American Chemical Society, 2013, 135, 9743-9752.	13.7	57
76	Tuning a riboswitch response through structural extension of a pseudoknot. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3256-64.	7.1	67
77	Escherichia coli Ribosomal Protein S1 Unfolds Structured mRNAs Onto the Ribosome for Active Translation Initiation. PLoS Biology, 2013, 11, e1001731.	5.6	151
78	A personal perspective on chemistry-driven RNA research. Biopolymers, 2013, 99, n/a-n/a.	2.4	10
79	Folding and ligand recognition of the TPP riboswitch aptamer at single-molecule resolution. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4188-4193.	7.1	115
80	Long non-coding RNAs as targets for cytosine methylation. RNA Biology, 2013, 10, 1002-1008.	3.1	138
81	Deoxyribozyme-Based, Semisynthetic Access to Stable Peptidyl-tRNAs Exemplified by tRNAVal Carrying a Macrolide Antibiotic Resistance Peptide. Methods in Molecular Biology, 2012, 848, 201-213.	0.9	4
82	2â€²-Azido RNA, a Versatile Tool for Chemical Biology: Synthesis, X-ray Structure, siRNA Applications, Click Labeling. ACS Chemical Biology, 2012, 7, 581-589.	3.4	98
83	2â€²â€SCF₃ Uridineâ€"A Powerful Label for Probing Structure and Function of RNA by ¹⁹Fâ€…NMR Spectroscopy. Angewandte Chemie - International Edition, 2012, 51, 13080-13084.	13.8	60
84	Pseudoknot Preorganization of the PreQ₁ Class I Riboswitch. Journal of the American Chemical Society, 2012, 134, 11928-11931.	13.7	56
85	Selective Desulfurization Significantly Expands Sequence Variety of 3â€²â€Peptidylâ€"tRNA Mimics Obtained by Native Chemical Ligation. ChemBioChem, 2012, 13, 1742-1745.	2.6	12
86	The synthesis of 2â€²-methylseleno adenosine and guanosine 5â€²-triphosphates. Bioorganic and Medicinal Chemistry, 2012, 20, 2416-2418.	3.0	9
87	Enzymatic synthesis of 2â€²-methylseleno-modified RNA. Chemical Science, 2011, 2, 2224.	7.4	16
88	Native Chemical Ligation of Hydrolysis-Resistant 3â€²-Peptidylâ€"tRNA Mimics. Journal of the American Chemical Society, 2011, 133, 19068-19071.	13.7	27
89	Biochemie 2010. Nachrichten Aus Der Chemie, 2011, 59, 297-318.	0.0	0
90	A Powerful Approach for the Selection of 2-Aminopurine Substitution Sites to Investigate RNA Folding. Journal of the American Chemical Society, 2011, 133, 16161-16167.	13.7	56

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91	The Dynamic Nature of RNA as Key to Understanding Riboswitch Mechanisms. Accounts of Chemical Research, 2011, 44, 1339-1348.	15.6	165
92	Nascent Peptide in the Ribosome Exit Tunnel Affects Functional Properties of the A-Site of the Peptidyl Transferase Center. Molecular Cell, 2011, 41, 321-330.	9.7	114
93	Functionalized polystyrene supports for solid-phase synthesis of glycyl-, alanyl-, and isoleucyl-RNA conjugates as hydrolysis-resistant mimics of peptidyl-tRNAs. Bioorganic and Medicinal Chemistry, 2011, 19, 5167-5174.	3.0	17
94	Chemical Synthesis of Siteâ€Specifically 2â€²â€Azidoâ€Modified RNA and Potential Applications for Bioconjugation and RNA Interference. ChemBioChem, 2011, 12, 47-51.	2.6	66
95	Conformational capture of the SAM-II riboswitch. Nature Chemical Biology, 2011, 7, 393-400.	8.0	158
96	Chemically Engineered Ribosomes: A New Frontier in Synthetic Biology. Current Organic Chemistry, 2010, 14, 148-161.	1.6	12
97	Efficient Access to Nonhydrolyzable Initiator tRNA Based on the Synthesis of 3â€²â€Azidoâ€3â€²â€Deoxyadenosine RNA. Angewandte Chemie, 2010, 122, 7632-7634.	2.0	16
98	Efficient Access to Nonhydrolyzable Initiator tRNA Based on the Synthesis of 3â€²â€Azidoâ€3â€²â€Deoxyadenosine RNA. Angewandte Chemie - International Edition, 2010, 49, 7470-7472.	13.8	36
99	Structural and functional insights into 5â€²-ppp RNA pattern recognition by the innate immune receptor RIG-I. Nature Structural and Molecular Biology, 2010, 17, 781-787.	8.2	229
100	Atomic mutagenesis reveals A2660 of 23S ribosomal RNA as key to EF-G GTPase activation. Nature Chemical Biology, 2010, 6, 344-351.	8.0	54
101	Folding of a transcriptionally acting PreQ ₁ riboswitch. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10804-10809.	7.1	111
102	Reliable semi-synthesis of hydrolysis-resistant 3â€²-peptidyl-tRNA conjugates containing genuine tRNA modifications. Nucleic Acids Research, 2010, 38, 6796-6802.	14.5	27
103	A fast selenium derivatization strategy for crystallization and phasing of RNA structures. Rna, 2009, 15, 707-715.	3.5	47
104	5-Fluoro pyrimidines: labels to probe DNA and RNA secondary structures by 1D 19 F NMR spectroscopy. Nucleic Acids Research, 2009, 37, 7728-7740.	14.5	79
105	Evidence for Pseudoknot Formation of Class I preQ₁ Riboswitch Aptamers. ChemBioChem, 2009, 10, 1141-1144.	2.6	39
106	Nonâ€Hydrolyzable RNAâ€"Peptide Conjugates: A Powerful Advance in the Synthesis of Mimics for 3â€²â€Peptidyl tRNA Termini. Angewandte Chemie - International Edition, 2009, 48, 4056-4060.	13.8	38
107	Chasing after Antibiotic Leads. Chemistry and Biology, 2009, 16, 1024-1025.	6.0	2
108	Stem cells are differentially regulated during development, regeneration and homeostasis in flatworms. Developmental Biology, 2009, 334, 198-212.	2.0	72

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109	Enzymatic Ligation Strategies for the Preparation of Purine Riboswitches with Site-Specific Chemical Modifications. Methods in Molecular Biology, 2009, 540, 15-24.	0.9	17
110	Binding of Aminoglycoside Antibiotics to the Duplex Form of the HIVâ€•1 Genomic RNA Dimerization Initiation Site. Angewandte Chemie - International Edition, 2008, 47, 4110-4113.	13.8	40
111	The Role of 23S Ribosomal RNA Residue A2451 in Peptide Bond Synthesis Revealed by AtomicÂMutagenesis. Chemistry and Biology, 2008, 15, 485-492.	6.0	88
112	The preparation of site-specifically modified riboswitch domains as an example for enzymatic ligation of chemically synthesized RNA fragments. Nature Protocols, 2008, 3, 1457-1466.	12.0	81
113	¹⁹F NMR Spectroscopy for the Analysis of RNA Secondary Structure Populations. Journal of the American Chemical Society, 2008, 130, 17230-17231.	13.7	70
114	Effects of <i>N²,N²</i>-dimethylguanosine on RNA structure and stability: Crystal structure of an RNA duplex with tandem m²₂G:A pairs. Rna, 2008, 14, 2125-2135.	3.5	37
115	2â€²-Methylseleno-modified oligoribonucleotides for X-ray crystallography synthesized by the ACE RNA solid-phase approach. Nucleic Acids Research, 2008, 36, 970-983.	14.5	75
116	An intact ribose moiety at A2602 of 23S rRNA is key to trigger peptidyl-tRNA hydrolysis during translation termination. Nucleic Acids Research, 2007, 35, 5130-5140.	14.5	55
117	Crystal structure, stability and in vitro RNAi activity of oligoribonucleotides containing the ribo-difluorotoluyl nucleotide: insights into substrate requirements by the human RISC Ago2 enzyme. Nucleic Acids Research, 2007, 35, 6424-6438.	14.5	48
118	Ligand-induced folding of the thiM TPP riboswitch investigated by a structure-based fluorescence spectroscopic approach. Nucleic Acids Research, 2007, 35, 5370-5378.	14.5	146
119	RNA â€“ Struktur und Funktion. Nachrichten Aus Der Chemie, 2007, 55, 279-284.	0.0	0
120	Ligand-Induced Folding of the Adenosine Deaminase A-Riboswitch and Implications on Riboswitch Translational Control. ChemBioChem, 2007, 8, 896-902.	2.6	167
121	Efficient Ribosomal Peptidyl Transfer Critically Relies on the Presence of the Ribose 2â€˜-OH at A2451 of 23S rRNA. Journal of the American Chemical Society, 2006, 128, 4453-4459.	13.7	83
122	Synthesis, Oxidation Behavior, Crystallization and Structure of 2â€˜-Methylseleno Guanosine Containing RNAs. Journal of the American Chemical Society, 2006, 128, 9909-9918.	13.7	68
123	Preparation of 2â€²â€•Deoxyâ€•2â€²â€•Methylselenoâ€•Modified Phosphoramidites and RNA. Current Protocols in Nucleic Acid Chemistry, 2006, 27, Unit 1.15.	0.5	5
124	Programmable Ligand-Controlled Riboregulators. Angewandte Chemie - International Edition, 2006, 45, 30-31.	13.8	8
125	A General Approach for the Identification of Site-Specific RNA Binders by19F NMR Spectroscopy: Proof of Concept. Angewandte Chemie - International Edition, 2006, 45, 3450-3453.	13.8	69
126	Structural basis for Diels-Alder ribozyme-catalyzed carbon-carbon bond formation. Nature Structural and Molecular Biology, 2005, 12, 218-224.	8.2	183

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127	Chemical engineering of the peptidyl transferase center reveals an important role of the 2'-hydroxyl group of A2451. Nucleic Acids Research, 2005, 33, 1618-1627.	14.5	75
128	Ribose 2â€˜-FLabeling:Â A Simple Tool for the Characterization of RNA Secondary Structure Equilibria by19F NMR Spectroscopy. Journal of the American Chemical Society, 2005, 127, 11558-11559.	13.7	74
129	Syntheses of RNAs with up to 100 Nucleotides Containing Site-Specific 2â€˜-Methylseleno Labels for Use in X-ray Crystallography. Journal of the American Chemical Society, 2005, 127, 12035-12045.	13.7	98
130	Triggering of RNA Secondary Structures by a Functionalized Nucleobase. Angewandte Chemie - International Edition, 2004, 43, 3922-3925.	13.8	42
131	Genetic Control by a Natural Metabolite-Responsive Ribozyme. Angewandte Chemie - International Edition, 2004, 43, 4692-4.	13.8	3
132	Structural Basis for Discriminative Regulation of Gene Expression by Adenine- and Guanine-Sensing mRNAs. Chemistry and Biology, 2004, 11, 1729-1741.	6.0	505
133	Chemical Synthesis of Selenium-Modified Oligoribonucleotides and Their Enzymatic Ligation Leading to an U6 SnRNA Stemâˆ'Loop Segment. Journal of the American Chemical Society, 2004, 126, 1141-1149.	13.7	96
134	The Synthesis of 2?- O -[(Triisopropylsilyl)oxy] methyl (TOM) Phosphoramidites of Methylated Ribonucleosides (m 1 G , m 2 G , m 2 2 G , m 1 I , m 3 U , m 4 C , m 6 A , m 6 2 A) for Use in Automated RNA Solid-Phase Synthesis. Monatshefte FÃ¼r Chemie, 2003, 134, 851-873.	1.8	48
135	Pentopyranosyl Oligonucleotide Systems. 9th Communication. Helvetica Chimica Acta, 2003, 86, 4270-4363.	1.6	50
136	Secondary Structure Rearrangements and Equilibria of Small RNAs. ChemInform, 2003, 34, no.	0.0	0
137	On Secondary Structure Rearrangements and Equilibria of Small RNAs. ChemBioChem, 2003, 4, 984-990.	2.6	56
138	On Secondary Structure Rearrangements and Equilibria of Small RNAs. ChemBioChem, 2003, 4, 1263-1263.	2.6	1
139	Bistable Secondary Structures of Small RNAs and Their Structural Probing by Comparative Imino Proton NMR Spectroscopy. Journal of Molecular Biology, 2003, 325, 421-431.	4.2	73
140	RNA Two-State Conformation Equilibria and the Effect of Nucleobase Methylation. Angewandte Chemie - International Edition, 2002, 41, 605-609.	13.8	33
141	Small Interfering RNAs and Their Chemical Synthesis. Angewandte Chemie - International Edition, 2002, 41, 2265.	13.8	103
142	Methylation of the nucleobases in RNA oligonucleotides mediates duplexâ€"hairpin conversion. Nucleic Acids Research, 2001, 29, 3997-4005.	14.5	81
143	Bridged Cyclic Oligoribonucleotides as Model Compounds for Codon - Anticodon Pairing. Angewandte Chemie - International Edition, 2000, 39, 922-925.	13.8	10
144	On RNA Triplet Interactions: NMR Study of the Short Intramolecular Duplex Formed by r[GCAm1G-p-O(CH2CH2O)6-p-UGCC], Preliminary Communication. Helvetica Chimica Acta, 2000, 83, 2336-2343.	1.6	3

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145	Cyclic Oligoribonucleotides (RNA) by Solid-Phase Synthesis. Chemistry - A European Journal, 1999, 5, 2077-2082.	3.3	43
146	Opposite Orientation of Backbone Inclination in Pyranosyl-RNA and Homo-DNA Correlates with Opposite Directionality of Duplex Properties. Angewandte Chemie - International Edition, 1999, 38, 680-683.	13.8	32
147	Pyranosyl-RNA: chiroselective self-assembly of base sequences by ligative oligomerization of tetra nucleotide-2â€²,3â€²-cyclophosphates (with a commentary concerning the origin of biomolecular) Tj ETQq1 1 0.784314 rgBT /Overlock	[illegible]	27
148	Pyranosyl-RNA Also Forms Hairpin Structures. Angewandte Chemie International Edition in English, 1997, 36, 870-873.	4.4	26
149	Pyranosyl-RNA: Further Observations on Replication. Helvetica Chimica Acta, 1997, 80, 1901-1951.	1.6	67
150	A Phycocyanobilin Seryliminoester as a New Model for the Chromophoreâ€"Protein Interaction in Phytochrome. Angewandte Chemie International Edition in English, 1995, 34, 1733-1735.	4.4	8
151	Long-wavelength absorbing derivatives of phycocyanobilin: New structural aspects of phytochrome. Bioorganic and Medicinal Chemistry Letters, 1994, 4, 2517-2522.	2.2	12