

Ronald Micura

List of Publications by Year in descending order

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151
papers

7,697
citations

41258

49
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62479

80
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all docs

172
docs citations

172
times ranked

6601
citing authors

#	ARTICLE	IF	CITATIONS
1	Distinct 5-methylcytosine profiles in poly(A) RNA from mouse embryonic stem cells and brain. <i>Genome Biology</i> , 2017, 18, 1.	3.8	587
2	Structural Basis for Discriminative Regulation of Gene Expression by Adenine- and Guanine-Sensing mRNAs. <i>Chemistry and Biology</i> , 2004, 11, 1729-1741.	6.2	505
3	Pyranosyl-RNA: chiroselective self-assembly of base sequences by ligative oligomerization of tetra nucleotide-2',3'-cyclophosphates (with a commentary concerning the origin of biomolecular) <i>Tj ETQq1 1 0.7843 14 rgB17/Overlo</i>	3.1	17
4	Structural and functional insights into 5'-ppp RNA pattern recognition by the innate immune receptor RIG-I. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 781-787.	3.6	229
5	Structural basis for Diels-Alder ribozyme-catalyzed carbon-carbon bond formation. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 218-224.	3.6	183
6	Ligand-Induced Folding of the Adenosine Deaminase A-Riboswitch and Implications on Riboswitch Translational Control. <i>ChemBioChem</i> , 2007, 8, 896-902.	1.3	167
7	The Dynamic Nature of RNA as Key to Understanding Riboswitch Mechanisms. <i>Accounts of Chemical Research</i> , 2011, 44, 1339-1348.	7.6	165
8	Conformational capture of the SAM-II riboswitch. <i>Nature Chemical Biology</i> , 2011, 7, 393-400.	3.9	158
9	<i>Escherichia coli</i> Ribosomal Protein S1 Unfolds Structured mRNAs Onto the Ribosome for Active Translation Initiation. <i>PLoS Biology</i> , 2013, 11, e1001731.	2.6	151
10	Ligand-induced folding of the thiM TPP riboswitch investigated by a structure-based fluorescence spectroscopic approach. <i>Nucleic Acids Research</i> , 2007, 35, 5370-5378.	6.5	146
11	Long non-coding RNAs as targets for cytosine methylation. <i>RNA Biology</i> , 2013, 10, 1002-1008.	1.5	138
12	Fundamental studies of functional nucleic acids: aptamers, riboswitches, ribozymes and DNAzymes. <i>Chemical Society Reviews</i> , 2020, 49, 7331-7353.	18.7	130
13	Folding and ligand recognition of the TPP riboswitch aptamer at single-molecule resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4188-4193.	3.3	115
14	Nascent Peptide in the Ribosome Exit Tunnel Affects Functional Properties of the A-Site of the Peptidyl Transferase Center. <i>Molecular Cell</i> , 2011, 41, 321-330.	4.5	114
15	Folding of a transcriptionally acting PreQ ₁ riboswitch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10804-10809.	3.3	111
16	Small Interfering RNAs and Their Chemical Synthesis. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2265.	7.2	103
17	Syntheses of RNAs with up to 100 Nucleotides Containing Site-Specific 2-Methylseleno Labels for Use in X-ray Crystallography. <i>Journal of the American Chemical Society</i> , 2005, 127, 12035-12045.	6.6	98
18	2'-Azido RNA, a Versatile Tool for Chemical Biology: Synthesis, X-ray Structure, siRNA Applications, Click Labeling. <i>ACS Chemical Biology</i> , 2012, 7, 581-589.	1.6	98

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19	Chemical Synthesis of Selenium-Modified Oligoribonucleotides and Their Enzymatic Ligation Leading to an U6 SnRNA Stem-Loop Segment. <i>Journal of the American Chemical Society</i> , 2004, 126, 1141-1149.	6.6	96
20	The Role of 23S Ribosomal RNA Residue A2451 in Peptide Bond Synthesis Revealed by Atomic Mutagenesis. <i>Chemistry and Biology</i> , 2008, 15, 485-492.	6.2	88
21	In-line alignment and Mg ²⁺ coordination at the cleavage site of the env22 twister ribozyme. <i>Nature Communications</i> , 2014, 5, 5534.	5.8	84
22	Efficient Ribosomal Peptidyl Transfer Critically Relies on the Presence of the Ribose 2'-OH at A2451 of 23S rRNA. <i>Journal of the American Chemical Society</i> , 2006, 128, 4453-4459.	6.6	83
23	Methylation of the nucleobases in RNA oligonucleotides mediates duplex-hairpin conversion. <i>Nucleic Acids Research</i> , 2001, 29, 3997-4005.	6.5	81
24	The preparation of site-specifically modified riboswitch domains as an example for enzymatic ligation of chemically synthesized RNA fragments. <i>Nature Protocols</i> , 2008, 3, 1457-1466.	5.5	81
25	5-Fluoro pyrimidines: labels to probe DNA and RNA secondary structures by 1D ¹⁹ F NMR spectroscopy. <i>Nucleic Acids Research</i> , 2009, 37, 7728-7740.	6.5	79
26	Pistol ribozyme adopts a pseudoknot fold facilitating site-specific in-line cleavage. <i>Nature Chemical Biology</i> , 2016, 12, 702-708.	3.9	78
27	Chemical engineering of the peptidyl transferase center reveals an important role of the 2'-hydroxyl group of A2451. <i>Nucleic Acids Research</i> , 2005, 33, 1618-1627.	6.5	75
28	² -Methylseleno-modified oligoribonucleotides for X-ray crystallography synthesized by the ACE RNA solid-phase approach. <i>Nucleic Acids Research</i> , 2008, 36, 970-983.	6.5	75
29	Ribose ² -F Labeling: A Simple Tool for the Characterization of RNA Secondary Structure Equilibria by ¹⁹ F NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 11558-11559.	6.6	74
30	Bistable Secondary Structures of Small RNAs and Their Structural Probing by Comparative Imino Proton NMR Spectroscopy. <i>Journal of Molecular Biology</i> , 2003, 325, 421-431.	2.0	73
31	Molecular insights into protein synthesis with proline residues. <i>EMBO Reports</i> , 2016, 17, 1776-1784.	2.0	73
32	Osmium-Mediated Transformation of 4-Thiouridine to Cytidine as Key To Study RNA Dynamics by Sequencing. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13479-13483.	7.2	73
33	Stem cells are differentially regulated during development, regeneration and homeostasis in flatworms. <i>Developmental Biology</i> , 2009, 334, 198-212.	0.9	72
34	¹⁹ F NMR Spectroscopy for the Analysis of RNA Secondary Structure Populations. <i>Journal of the American Chemical Society</i> , 2008, 130, 17230-17231.	6.6	70
35	A General Approach for the Identification of Site-Specific RNA Binders by ¹⁹ F NMR Spectroscopy: Proof of Concept. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3450-3453.	7.2	69
36	Synthesis, Oxidation Behavior, Crystallization and Structure of ² -Methylseleno Guanosine Containing RNAs. <i>Journal of the American Chemical Society</i> , 2006, 128, 9909-9918.	6.6	68

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37	Conformation of sister chromatids in the replicated human genome. <i>Nature</i> , 2020, 586, 139-144.	13.7	68
38	Pyranosyl-RNA: Further Observations on Replication. <i>Helvetica Chimica Acta</i> , 1997, 80, 1901-1951.	1.0	67
39	Tuning a riboswitch response through structural extension of a pseudoknot. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3256-64.	3.3	67
40	Chemical Synthesis of Site-Specifically 2-Azido-Modified RNA and Potential Applications for Bioconjugation and RNA Interference. <i>ChemBioChem</i> , 2011, 12, 47-51.	1.3	66
41	¹⁹ F-5-SCF ₃ Uridine: A Powerful Label for Probing Structure and Function of RNA by NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 13080-13084.	7.2	60
42	Thermodynamics of HIV-1 Reverse Transcriptase in Action Elucidates the Mechanism of Action of Non-Nucleoside Inhibitors. <i>Journal of the American Chemical Society</i> , 2013, 135, 9743-9752.	6.6	57
43	On Secondary Structure Rearrangements and Equilibria of Small RNAs. <i>ChemBioChem</i> , 2003, 4, 984-990.	1.3	56
44	A Powerful Approach for the Selection of 2-Aminopurine Substitution Sites to Investigate RNA Folding. <i>Journal of the American Chemical Society</i> , 2011, 133, 16161-16167.	6.6	56
45	Pseudoknot Preorganization of the PreQ ₁ Class I Riboswitch. <i>Journal of the American Chemical Society</i> , 2012, 134, 11928-11931.	6.6	56
46	Structure-based mechanistic insights into catalysis by small self-cleaving ribozymes. <i>Current Opinion in Chemical Biology</i> , 2017, 41, 71-83.	2.8	56
47	An intact ribose moiety at A2602 of 23S rRNA is key to trigger peptidyl-tRNA hydrolysis during translation termination. <i>Nucleic Acids Research</i> , 2007, 35, 5130-5140.	6.5	55
48	Atomic mutagenesis reveals A2660 of 23S ribosomal RNA as key to EF-G GTPase activation. <i>Nature Chemical Biology</i> , 2010, 6, 344-351.	3.9	54
49	Crystal Structure of Hypusine-Containing Translation Factor eIF5A Bound to a Rotated Eukaryotic Ribosome. <i>Journal of Molecular Biology</i> , 2016, 428, 3570-3576.	2.0	53
50	A Mini-Twister Variant and Impact of Residues/Cations on the Phosphodiester Cleavage of this Ribozyme Class. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15128-15133.	7.2	51
51	Pentopyranosyl Oligonucleotide Systems. 9th Communication. <i>Helvetica Chimica Acta</i> , 2003, 86, 4270-4363.	1.0	50
52	The Synthesis of 2'-O-[(Triisopropylsilyloxy)methyl] (TOM) Phosphoramidites of Methylated Ribonucleosides (m1G, m2G, m2G, m1I, m3U, m4C, m6A, m62A) for Use in Automated RNA Solid-Phase Synthesis. <i>Monatshefte für Chemie</i> , 2003, 134, 851-873.	0.9	48
53	Crystal structure, stability and in vitro RNAi activity of oligoribonucleotides containing the ribo-difluorotoluy nucleotide: insights into substrate requirements by the human RISC Ago2 enzyme. <i>Nucleic Acids Research</i> , 2007, 35, 6424-6438.	6.5	48
54	A fast selenium derivatization strategy for crystallization and phasing of RNA structures. <i>Rna</i> , 2009, 15, 707-715.	1.6	47

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55	Efficient Access to 3'-Terminal Azide-Modified RNA for Inverse Click-Labeling Patterns. <i>Bioconjugate Chemistry</i> , 2014, 25, 188-195.	1.8	47
56	Machine learning of reverse transcription signatures of variegated polymerases allows mapping and discrimination of methylated purines in limited transcriptomes. <i>Nucleic Acids Research</i> , 2020, 48, 3734-3746.	6.5	45
57	The "Speedy" Synthesis of Atom-Specific ¹⁵ N Imino/Amido-Labeled RNA. <i>Chemistry - A European Journal</i> , 2015, 21, 11634-11643.	1.7	44
58	Cyclic Oligoribonucleotides (RNA) by Solid-Phase Synthesis. <i>Chemistry - A European Journal</i> , 1999, 5, 2077-2082.	1.7	43
59	Triggering of RNA Secondary Structures by a Functionalized Nucleobase. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3922-3925.	7.2	42
60	Binding of Aminoglycoside Antibiotics to the Duplex Form of the HIV-1 Genomic RNA Dimerization Initiation Site. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4110-4113.	7.2	40
61	Evidence for Pseudoknot Formation of Class I preQ ₁ Riboswitch Aptamers. <i>ChemBioChem</i> , 2009, 10, 1141-1144.	1.3	39
62	Non-Hydrolyzable RNA-Peptide Conjugates: A Powerful Advance in the Synthesis of Mimics for 3'-Peptidyl tRNA Termini. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4056-4060.	7.2	38
63	Label-free, direct localization and relative quantitation of the RNA nucleobase methylations m6A, m5C, m3U, and m5U by top-down mass spectrometry. <i>Nucleic Acids Research</i> , 2017, 45, 8014-8025.	6.5	38
64	Unwinding the twister ribozyme: from structure to mechanism. <i>Wiley Interdisciplinary Reviews RNA</i> , 2017, 8, e1402.	3.2	38
65	Structural basis for the context-specific action of the classic peptidyl transferase inhibitor chloramphenicol. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 152-161.	3.6	38
66	Effects of ² N, ² N-dimethylguanosine on RNA structure and stability: Crystal structure of an RNA duplex with tandem m ² ₂G:A pairs. <i>Rna</i> , 2008, 14, 2125-2135.	1.6	37
67	Efficient Access to Nonhydrolyzable Initiator tRNA Based on the Synthesis of 3'-Azido-Deoxyadenosine. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7470-7472.	7.2	36
68	Mechanistic insights into the slow peptide bond formation with D-amino acids in the ribosomal active site. <i>Nucleic Acids Research</i> , 2019, 47, 2089-2100.	6.5	36
69	RNA Two-State Conformation Equilibria and the Effect of Nucleobase Methylation. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 605-609.	7.2	33
70	Binding of Macrolide Antibiotics Leads to Ribosomal Selection against Specific Substrates Based on Their Charge and Size. <i>Cell Reports</i> , 2016, 16, 1789-1799.	2.9	33
71	Pseudoknot Formation Seeds the Twister Ribozyme Cleavage Reaction Coordinate. <i>Journal of the American Chemical Society</i> , 2017, 139, 8186-8193.	6.6	33
72	Translation of non-standard codon nucleotides reveals minimal requirements for codon-anticodon interactions. <i>Nature Communications</i> , 2018, 9, 4865.	5.8	33

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73	Opposite Orientation of Backbone Inclination in Pyranosyl-RNA and Homo-DNA Correlates with Opposite Directionality of Duplex Properties. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 680-683.	7.2	32
74	Surprising Base Pairing and Structural Properties of 2- ² -Trifluoromethylthio-Modified Ribonucleic Acids. <i>Journal of the American Chemical Society</i> , 2014, 136, 6656-6663.	6.6	32
75	Structure-based insights into self-cleavage by a four-way junctional twister-sister ribozyme. <i>Nature Communications</i> , 2017, 8, 1180.	5.8	30
76	Atom-Specific Mutagenesis Reveals Structural and Catalytic Roles for an Active Site Adenosine and Hydrated Mg ²⁺ in Pistol Ribozymes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15954-15958.	7.2	29
77	Ligand-Detected Relaxation Dispersion NMR Spectroscopy: Dynamics of preQ ₁ RNA Binding. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 560-563.	7.2	28
78	Role of a ribosomal RNA phosphate oxygen during the EF-G-triggered GTP hydrolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2561-8.	3.3	28
79	Hatchet ribozyme structure and implications for cleavage mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10783-10791.	3.3	28
80	SAM-VI riboswitch structure and signature for ligand discrimination. <i>Nature Communications</i> , 2019, 10, 5728.	5.8	28
81	Reliable semi-synthesis of hydrolysis-resistant 3-peptidyl-tRNA conjugates containing genuine tRNA modifications. <i>Nucleic Acids Research</i> , 2010, 38, 6796-6802.	6.5	27
82	Native Chemical Ligation of Hydrolysis-Resistant 3-Peptidyl-tRNA Mimics. <i>Journal of the American Chemical Society</i> , 2011, 133, 19068-19071.	6.6	27
83	Pyranosyl-RNA Also Forms Hairpin Structures. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 870-873.	4.4	26
84	Thioguanosine Conversion Enables mRNA Lifetime Evaluation by RNA Sequencing Using Double Metabolic Labeling (TUC-seq DUAL). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6881-6886.	7.2	26
85	Crucial Roles of Two Hydrated Mg ²⁺ Ions in Reaction Catalysis of the Pistol Ribozyme. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2837-2843.	7.2	24
86	A natural riboswitch scaffold with self-methylation activity. <i>Nature Communications</i> , 2021, 12, 3877.	5.8	24
87	On the mechanism of RNA phosphodiester backbone cleavage in the absence of solvent. <i>Nucleic Acids Research</i> , 2015, 43, 5171-5181.	6.5	23
88	Structural insights into synthetic ligands targeting A-A pairs in disease-related CAG RNA repeats. <i>Nucleic Acids Research</i> , 2019, 47, 10906-10913.	6.5	23
89	Structural distinctions between NAD ⁺ riboswitch domains 1 and 2 determine differential folding and ligand binding. <i>Nucleic Acids Research</i> , 2020, 48, 12394-12406.	6.5	22
90	Conformational Rearrangements of Individual Nucleotides during RNA-Ligand Binding Are Rate-Differentiated. <i>Journal of the American Chemical Society</i> , 2016, 138, 3627-3630.	6.6	20

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91	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.	3.3	19
92	Thiouridine-to-Cytidine Conversion Sequencing (TUC-Seq) to Measure mRNA Transcription and Degradation Rates. Methods in Molecular Biology, 2020, 2062, 191-211.	0.4	19
93	2'-O-Trifluoromethylated RNA – a powerful modification for RNA chemistry and NMR spectroscopy. Chemical Science, 2020, 11, 11322-11330.	3.7	18
94	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.	1.4	17
95	Enzymatic Ligation Strategies for the Preparation of Purine Riboswitches with Site-Specific Chemical Modifications. Methods in Molecular Biology, 2009, 540, 15-24.	0.4	17
96	Efficient Access to Nonhydrolyzable Initiator tRNA Based on the Synthesis of 3'-Azido-Deoxyadenosine RNA. Angewandte Chemie, 2010, 122, 7632-7634.	1.6	16
97	Enzymatic synthesis of 2'-methylseleno-modified RNA. Chemical Science, 2011, 2, 2224.	3.7	16
98	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.	6.5	16
99	The Synthesis of Methylated, Phosphorylated, and Phosphonated 3'-Aminoacyl-tRNA ^{Sec} Mimics. Chemistry - A European Journal, 2013, 19, 15872-15878.	1.7	15
100	Insights into xanthine riboswitch structure and metal ion-mediated ligand recognition. Nucleic Acids Research, 2021, 49, 7139-7153.	6.5	15
101	Long-wavelength absorbing derivatives of phycocyanobilin: New structural aspects of phytochrome. Bioorganic and Medicinal Chemistry Letters, 1994, 4, 2517-2522.	1.0	12
102	Chemically Engineered Ribosomes: A New Frontier in Synthetic Biology. Current Organic Chemistry, 2010, 14, 148-161.	0.9	12
103	Selective Desulfurization Significantly Expands Sequence Variety of 3'-Peptidyl-tRNA Mimics Obtained by Native Chemical Ligation. ChemBioChem, 2012, 13, 1742-1745.	1.3	12
104	Expanding the Scope of 5'-Modified RNA. Chemistry - A European Journal, 2015, 21, 10400-10407.	1.7	12
105	Amine-to-Azide Conversion on Native RNA via Metal-Free Diazotransfer Opens New Avenues for RNA Manipulations. Angewandte Chemie - International Edition, 2021, 60, 6970-6974.	7.2	12
106	SHAPE probing pictures Mg ²⁺ -dependent folding of small self-cleaving ribozymes. Nucleic Acids Research, 2018, 46, 6983-6995.	6.5	12
107	Facile synthesis of a 3-deazaadenosine phosphoramidite for RNA solid-phase synthesis. Beilstein Journal of Organic Chemistry, 2016, 12, 2556-2562.	1.3	11
108	The synthesis of 15N(7)-Hoogsteen face-labeled adenosine phosphoramidite for solid-phase RNA synthesis. Monatshefte für Chemie, 2017, 148, 149-155.	0.9	11

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109	Superior cellular activities of azido- over amino-functionalized ligands for engineered preQ ₁ riboswitches in <i>E.coli</i> . RNA Biology, 2018, 15, 1376-1383.	1.5	11
110	Impact of 3-deazapurine nucleobases on RNA properties. Nucleic Acids Research, 2021, 49, 4281-4293.	6.5	11
111	Bridged Cyclic Oligoribonucleotides as Model Compounds for Codon - Anticodon Pairing. Angewandte Chemie - International Edition, 2000, 39, 922-925.	7.2	10
112	A personal perspective on chemistry-driven RNA research. Biopolymers, 2013, 99, n/a-n/a.	1.2	10
113	Dye label interference with RNA modification reveals 5-fluorouridine as non-covalent inhibitor. Nucleic Acids Research, 2014, 42, 12735-12745.	6.5	10
114	The synthesis of 2-methylseleno adenosine and guanosine 5-triphosphates. Bioorganic and Medicinal Chemistry, 2012, 20, 2416-2418.	1.4	9
115	Access to 3-Deazaguanosine Building Blocks for RNA Solid-Phase Synthesis Involving Hartwig-Buchwald N Cross-Coupling. Organic Letters, 2019, 21, 3900-3903.	2.4	9
116	Practical Synthesis of Cap RNA. ChemBioChem, 2020, 21, 265-271.	1.3	9
117	A Phycocyanobilin Serylminoester as a New Model for the Chromophore-Protein Interaction in Phytochrome. Angewandte Chemie International Edition in English, 1995, 34, 1733-1735.	4.4	8
118	Programmable Ligand-Controlled Riboregulators. Angewandte Chemie - International Edition, 2006, 45, 30-31.	7.2	8
119	New Insights into Gene Regulation-High-Resolution Structures of Cobalamin Riboswitches. Angewandte Chemie - International Edition, 2013, 52, 1874-1877.	7.2	8
120	Synthesis of 5-Hydroxymethylcytidine- and 5-Hydroxymethyl-Uridine-Modified RNA. Synthesis, 2016, 48, 1108-1116.	1.2	8
121	An Unconventional Acid-Labile Nucleobase Protection Concept for Guanosine Phosphoramidites in RNA Solid-Phase Synthesis. Chemistry - A European Journal, 2017, 23, 3406-3413.	1.7	8
122	Synthesis, Thermodynamic Properties, and Crystal Structure of RNA Oligonucleotides Containing 5-Hydroxymethylcytosine. Journal of Organic Chemistry, 2017, 82, 7939-7945.	1.7	8
123	Sister chromatid-sensitive Hi-C to map the conformation of replicated genomes. Nature Protocols, 2022, 17, 1486-1517.	5.5	8
124	Chemical synthesis of RNA with site-specific methylphosphonate modifications. Methods, 2016, 107, 79-88.	1.9	7
125	Osmium-Mediated Transformation of 4-Thiouridine to Cytidine as Key To Study RNA Dynamics by Sequencing. Angewandte Chemie, 2017, 129, 13664-13668.	1.6	7
126	Crucial Roles of Two Hydrated Mg ²⁺ Ions in Reaction Catalysis of the Pistol Ribozyme. Angewandte Chemie, 2020, 132, 2859-2865.	1.6	7

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127	1-Deazaguanosine-Modified RNA: The Missing Piece for Functional RNA Atomic Mutagenesis. <i>Journal of the American Chemical Society</i> , 2022, 144, 10344-10352.	6.6	7
128	Towards a comprehensive understanding of RNA deamination: synthesis and properties of xanthosine-modified RNA. <i>Nucleic Acids Research</i> , 2022, 50, 6038-6051.	6.5	7
129	Syntheses of ¹⁵ N-labeled pre-queuosine nucleobase derivatives. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 1914-1918.	1.3	6
130	Use of SHAPE to Select 2AP Substitution Sites for RNA-Ligand Interactions and Dynamics Studies. <i>Methods in Molecular Biology</i> , 2014, 1103, 227-239.	0.4	6
131	Preparation of 2'-Deoxy-2'-Methylseleno-Modified Phosphoramidites and RNA. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2006, 27, Unit 1.15.	0.5	5
132	Synthesis of aminoacylated N ₆ ,N ₆ -dimethyladenosine solid support for efficient access to hydrolysis-resistant 3'-charged tRNA mimics. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 6989-6995.	1.4	5
133	Deoxyribozyme-Based, Semisynthetic Access to Stable Peptidyl-tRNAs Exemplified by tRNA ^{Val} Carrying a Macrolide Antibiotic Resistance Peptide. <i>Methods in Molecular Biology</i> , 2012, 848, 201-213.	0.4	4
134	Native Chemical Ligation of Hydrolysis-Resistant 3'-NH-Cysteine-Modified RNA. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2015, 62, 4.64.1-4.64.36.	0.5	4
135	Atom-Specific Mutagenesis Reveals Structural and Catalytic Roles for an Active-Site Adenosine and Hydrated Mg ²⁺ in Pistol Ribozymes. <i>Angewandte Chemie</i> , 2017, 129, 16170-16174.	1.6	4
136	Efficient access to N-trifluoroacetylated 2'-amino-2'-deoxyadenosine phosphoramidite for RNA solid-phase synthesis. <i>Monatshefte für Chemie</i> , 2019, 150, 795-800.	0.9	4
137	Synthesis of <i>O</i> ⁶ -alkylated preQ ₁ derivatives. <i>Beilstein Journal of Organic Chemistry</i> , 2021, 17, 2295-2301.	1.3	4
138	Synthesis of 4-thiouridines with prodrug functionalization for RNA metabolic labeling. <i>RSC Chemical Biology</i> , 2022, 3, 447-455.	2.0	4
139	On RNA Triplet Interactions: NMR Study of the Short Intramolecular Duplex Formed by r[GCAm ₁ C-p-O(CH ₂ CH ₂ O) ₆ -p-UGCC], Preliminary Communication. <i>Helvetica Chimica Acta</i> , 2000, 83, 2336-2343.	1.0	3
140	Genetic Control by a Natural Metabolite-Responsive Ribozyme. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4692-4.	7.2	3
141	Thioguanosine Conversion Enables mRNA-Lifetime Evaluation by RNA Sequencing Using Double Metabolic Labeling (TUC-seq DUAL). <i>Angewandte Chemie</i> , 2020, 132, 6948-6953.	1.6	3
142	Synthesis of N ₄ -acetylated 3-methylcytidine phosphoramidites for RNA solid-phase synthesis. <i>Monatshefte für Chemie</i> , 2022, 153, 285-291.	0.9	3
143	Chasing after Antibiotic Leads. <i>Chemistry and Biology</i> , 2009, 16, 1024-1025.	6.2	2
144	On Secondary Structure Rearrangements and Equilibria of Small RNAs. <i>ChemBioChem</i> , 2003, 4, 1263-1263.	1.3	1

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145	Automated Chemical Solid-Phase Synthesis and Deprotection of 5-Hydroxymethylcytosine-Containing RNA. <i>Methods in Molecular Biology</i> , 2017, 1562, 295-302.	0.4	1
146	Practical synthesis of N-(di-n-butylamino)methylene-protected 2-aminopurine riboside phosphoramidite for RNA solid-phase synthesis. <i>Monatshefte für Chemie</i> , 2019, 150, 1941-1946.	0.9	1
147	Design of cross-linked RNA/protein complexes for structural studies. <i>Biochimie</i> , 2019, 164, 95-98.	1.3	1
148	Secondary Structure Rearrangements and Equilibria of Small RNAs. <i>ChemInform</i> , 2003, 34, no.	0.1	0
149	RNA – Struktur und Funktion. <i>Nachrichten Aus Der Chemie</i> , 2007, 55, 279-284.	0.0	0
150	Biochemie 2010. <i>Nachrichten Aus Der Chemie</i> , 2011, 59, 297-318.	0.0	0
151	Amine-to-Azide Conversion on Native RNA via Metal-Free Diazotransfer Opens New Avenues for RNA Manipulations. <i>Angewandte Chemie</i> , 2021, 133, 7046-7050.	1.6	0