

# Ryszard W Adamiak

## List of Publications by Year in descending order

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84  
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3,063  
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186265  
28  
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175258  
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86  
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86  
docs citations

86  
times ranked

2723  
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated 3D structure composition for large RNAs. <i>Nucleic Acids Research</i> , 2012, 40, e112-e112.	14.5	564
2	<i>RNA-Puzzles</i> Round II: assessment of RNA structure prediction programs applied to three large RNA structures. <i>Rna</i> , 2015, 21, 1066-1084.	3.5	161
3	RNA-Puzzles Round III: 3D RNA structure prediction of five riboswitches and one ribozyme. <i>Rna</i> , 2017, 23, 655-672.	3.5	158
4	RNA FRABASE 2.0: an advanced web-accessible database with the capacity to search the three-dimensional fragments within RNA structures. <i>BMC Bioinformatics</i> , 2010, 11, 231.	2.6	130
5	Automated RNA 3D Structure Prediction with RNAComposer. <i>Methods in Molecular Biology</i> , 2016, 1490, 199-215.	0.9	118
6	New functionality of RNAComposer: application to shape the axis of miR160 precursor structure. <i>Acta Biochimica Polonica</i> , 2017, 63, 737-744.	0.5	112
7	RNA-Puzzles Round IV: 3D structure predictions of four ribozymes and two aptamers. <i>Rna</i> , 2020, 26, 982-995.	3.5	100
8	RNAppdbee 2.0: multifunctional tool for RNA structure annotation. <i>Nucleic Acids Research</i> , 2018, 46, W30-W35.	14.5	81
9	RNA FRABASE version 1.0: an engine with a database to search for the three-dimensional fragments within RNA structures. <i>Nucleic Acids Research</i> , 2008, 36, D386-D391.	14.5	78
10	Structural Rearrangements of the 10â€“23 DNAzyme to Î²3 Integrin Subunit mRNA Induced by Cations and Their Relations to the Catalytic Activity. <i>Journal of Biological Chemistry</i> , 2003, 278, 47987-47996.	3.4	68
11	RNAppdbeeâ€”a webserver to derive secondary structures from pdb files of knotted and unknotted RNAs. <i>Nucleic Acids Research</i> , 2014, 42, W368-W372.	14.5	61
12	The bulge region of HIV-1 TAR RNA binds metal ions in solution. <i>Nucleic Acids Research</i> , 2002, 30, 4241-4249.	14.5	58
13	Z-RNA: The solution NMR structure of r(CGCGCG). <i>Biopolymers</i> , 1990, 29, 109-122.	2.4	56
14	New, ionic side-products in oligonucleotide synthesis: formation and reactivity of fluorescent N-/purin-6-yl/pyridinium salts1. <i>Nucleic Acids Research</i> , 1985, 13, 2989-3003.	14.5	55
15	Nucleoside 3'-phosphotriesters as key intermediates for the oligoribonucleotide synthesis. IV. New method for removal of 2,2,2-trichloroethyl group and <sup>31</sup> NMR as a new tool for analysis of deblocking of internucleotide phosphate protecting groups. <i>Nucleic Acids Research</i> , 1977, 4, 2321-2330.	14.5	54
16	Nucleoside 3'-phosphotriesters as key intermediates for the oligoribonucleotide synthesis. III. An improved preparation of nucleoside 3'-phosphotriesters, their <sup>1</sup> H NMR characterization and new conditions for removal of 2-cyanoethyl group. <i>Nucleic Acids Research</i> , 1976, 3, 3397-3408.	14.5	52
17	The chemical synthesis of the anticodon loop of an eukaryotic initiator tRNA containing the hypermodified nucleoside N6-/N-threonylcarbonyl-/adenosine/t6A/1. <i>Nucleic Acids Research</i> , 1978, 5, 1889-1905.	14.5	49
18	New observations concerning the chloroacetaldehyde reaction with some tRNA constituents. Stable intermediates, kinetics and selectivity of the reaction. <i>Nucleic Acids Research</i> , 1978, 5, 789-804.	14.5	49

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19	Solution structure of RNA duplexes containing alternating CG base pairs: NMR study of r(CGCGCG) <sub>2</sub> and 2'-O-Me(CGCGCG) <sub>2</sub> under low salt conditions. <i>Nucleic Acids Research</i> , 1997, 25, 4589-4598.	14.5	46
20	RNAComposer and RNA 3D structure prediction for nanotechnology. <i>Methods</i> , 2016, 103, 120-127.	3.8	46
21	Crystal structure of 2'-O-Me(CGCGCG) <sub>2</sub> , an RNA duplex at 1.30 Å resolution. Hydration pattern of 2'-O-methylated RNA. <i>Nucleic Acids Research</i> , 1997, 25, 4599-4607.	14.5	44
22	The Apical Loop of the HIV-1 TAR RNA Hairpin Is Stabilized by a Cross-loop Base Pair. <i>Journal of Biological Chemistry</i> , 2003, 278, 38892-38901.	3.4	42
23	High salt solution structure of a left-handed RNA double helix. <i>Nucleic Acids Research</i> , 2004, 32, 4044-4054.	14.5	40
24	Hypermodified Nucleosides of tRNA: Synthesis, Chemistry, and Structural Features of Biological Interest. <i>Progress in Molecular Biology and Translational Science</i> , 1985, 32, 27-74.	1.9	34
25	Automated 3D RNA Structure Prediction Using the RNAComposer Method for Riboswitches1. <i>Methods in Enzymology</i> , 2015, 553, 3-34.	1.0	34
26	The complex between ribonuclease T1 and 3'GMP suggests geometry of enzymic reaction path. An X-ray study. <i>FEBS Journal</i> , 1993, 218, 1005-1012.	0.2	31
27	New in silico approach to assessing RNA secondary structures with non-canonical base pairs. <i>BMC Bioinformatics</i> , 2015, 16, 276.	2.6	31
28	The cleavage of phosphodiester bonds within small RNA bulges in the presence and absence of metal ion catalysis. <i>Perkin Transactions II RSC</i> , 2001, , 1024-1031.	1.1	30
29	The 1.19 Å X-ray structure of 2'-O-Me(CGCGCG) <sub>2</sub> duplex shows dehydrated RNA with 2-methyl-2,4-pentanediol in the minor groove. <i>Nucleic Acids Research</i> , 2001, 29, 4144-4153.	14.5	30
30	A normal genetic variation modulates synaptic <sc>MMP</sc> protein levels and the severity of schizophrenia symptoms. <i>EMBO Molecular Medicine</i> , 2017, 9, 1100-1116.	6.9	29
31	New algorithms to represent complex pseudoknotted RNA structures in dot-bracket notation. <i>Bioinformatics</i> , 2018, 34, 1304-1312.	4.1	29
32	A highly effective route to N,N <sup>ε</sup> -disubstituted ureas under mild conditions. an application to the synthesis of tRNA anticodon loop fragments containing ureidonucleosides.. <i>Tetrahedron Letters</i> , 1977, 18, 1935-1936.	1.4	27
33	Spatial distribution functions as a tool in the analysis of ribonucleic acids hydration " molecular dynamics studies. <i>Computers &amp; Chemistry</i> , 2000, 24, 451-457.	1.2	26
34	The in vitro loose dimer structure and rearrangements of the HIV-2 leader RNA. <i>Nucleic Acids Research</i> , 2011, 39, 7234-7248.	14.5	25
35	Bulged Adenosine Influence on the RNA Duplex Conformation in Solution. <i>Biochemistry</i> , 2008, 47, 5059-5067.	2.5	24
36	RNAAssess" a web server for quality assessment of RNA 3D structures. <i>Nucleic Acids Research</i> , 2015, 43, W502-W506.	14.5	24

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37	Attempts to suppress internucleotide cleavage during unblocking of oligonucleotide phosphotriester intermediates. <i>Tetrahedron Letters</i> , 1977, 18, 1431-1434.	1.4	22
38	2-Aminopurine labelled RNA bulge loops. Synthesis and thermodynamics. <i>Biochimie</i> , 1996, 78, 123-130.	2.6	22
39	RNAlyzer – novel approach for quality analysis of RNA structural models. <i>Nucleic Acids Research</i> , 2013, 41, 5978-5990.	14.5	22
40	On the Application of t-Butyldimethylsilyl Group in Chemical RNA Synthesis. Part I. <sup>31</sup> P NMR Study of 2'-O-t-BDMSi Group Migration During Nucleoside 3'-OH Phosphorylation and Phosphitylation Reactions. <i>Nucleosides &amp; Nucleotides</i> , 1989, 8, 463-474.	0.5	21
41	Synthesis of multiply labelled ribonucleosides for sequence-specific labelling of oligo-RNA. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2001, 44, 763-783.	1.0	21
42	The first example of sequence-specific non-uniformly <sup>13</sup> C labelled RNA: Synthesis of the 29mer HIV-1 TAR RNA with <sup>13</sup> C Relaxation Window. <i>Tetrahedron</i> , 1999, 55, 6603-6622.	1.9	20
43	Photophysical studies of luminarosine – A new, highly fluorescent ribonucleoside with pteridine-like betaine as the aglycone. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1989, , 1691-1696.	0.9	18
44	Synthesis of 6-Substituted Purines and Ribonucleosides with N-(6-Purinyl)pyridinium Salts. <i>Angewandte Chemie International Edition in English</i> , 1985, 24, 1054-1055.	4.4	17
45	Fluorescent nucleoside with a new heterocyclic betaine as the aglycone photochemical preparation and properties. <i>Tetrahedron</i> , 1987, 43, 3955-3961.	1.9	17
46	The matrix domain contributes to the nucleic acid chaperone activity of HIV-2 Gag. <i>Retrovirology</i> , 2016, 13, 18.	2.0	17
47	Salt- and solvent-dependent conformational transitions of ribo-CGCCCG duplex. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1985, 825, 345-352.	2.4	16
48	An Algorithm for an Automatic NOE Pathways Analysis of 2D NMR Spectra of RNA Duplexes. <i>Journal of Computational Biology</i> , 2004, 11, 163-179.	1.6	15
49	Photophysical and photochemical properties of C-linked ribosides of pyridin-2-one. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000, 133, 169-176.	3.9	14
50	New, extended hairpin form of the TAR-2 RNA domain points to the structural polymorphism at the 5' end of the HIV-2 leader RNA. <i>Nucleic Acids Research</i> , 2006, 34, 2984-2997.	14.5	14
51	<sup>19</sup> F NMR of RNA. The Structural and Chemical Aspects of 5-Fluoro-cytidine and-uridine Labelling of Oligoribonucleotides. <i>Nucleosides &amp; Nucleotides</i> , 1996, 15, 477-488.	0.5	13
52	Entanglements of structure elements revealed in RNA 3D models. <i>Nucleic Acids Research</i> , 2021, 49, 9625-9632.	14.5	13
53	Photophysical properties of pyridinium salts derived from purine bases. <i>Canadian Journal of Chemistry</i> , 1990, 68, 2164-2170.	1.1	12
54	The HIV-2 TAR RNA domain as a potential source of viral-encoded miRNA. A reconnaissance study.. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 511-512.	0.3	12

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55	RNAfitme: a webserver for modeling nucleobase and nucleoside residue conformation in fixed-backbone RNA structures. <i>BMC Bioinformatics</i> , 2018, 19, 304.	2.6	12
56	Noncanonical G( <i>syn</i> )â€“G( <i>anti</i> ) base pairs stabilized by sulphate anions in two X-ray structures of the (GUGGUCUGAUGAGGCC) RNA duplex. <i>Rna</i> , 2008, 14, 1845-1851.	3.5	11
57	Metal binding ability of hypermodified nucleosides of t-RNA. Potentiometric and spectroscopic studies on the metal complexes of N-[(9- <sup>12</sup> -D-ribofuranosylpurin-6-yl)carbamoyl] threonine. <i>Journal of Inorganic Biochemistry</i> , 1990, 40, 357-363.	3.5	10
58	Deoxyluminarosine: New, Photochemically Prepared Fluorophore for the Sequence-Specific Oligonucleotide Labelling. <i>Nucleosides &amp; Nucleotides</i> , 1991, 10, 263-267.	0.5	10
59	Effects of type and number of impellers and liquid viscosity on the power characteristics of mechanically agitated gasâ€“liquid systems. <i>Chemical Papers</i> , 2007, 61, .	2.2	10
60	The hydration and unusual hydrogen bonding in the crystal structure of an RNA duplex containing alternating CG base pairs. <i>New Journal of Chemistry</i> , 2010, 34, 903.	2.8	10
61	Chromatography on Sephadex LH20 as an efficient purification step after removal of inter-nucleotide 2,2,2-trichloroethyl protective groups from oligoribonucleotide phosphotriesters1. <i>Nucleic Acids Research</i> , 1980, 8, 1097-1105.	14.5	9
62	General Conception of the Virtual Laboratory. <i>Lecture Notes in Computer Science</i> , 2004, , 1013-1016.	1.3	9
63	High-throughput method for the prediction of low-resolution, three-dimensional RNA structures. <i>Nucleic Acids Symposium Series</i> , 2006, 50, 67-68.	0.3	9
64	An assignment walk through 3D NMR spectrum. , 2009, , .		8
65	Postsynthetic Transformations of Oligodeoxynucleotides Originated at 6-Methylthio-purine Site. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 1995, 14, 979-982.	1.1	7
66	Fluorescent $\hat{\pm}$ -Anomeric 1,N(6)Etheno- Deoxyadenosine in DNA Duplexes. the $\hat{\pm}$ - $\hat{\mu}$ dA / dG Pair. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000, 19, 1735-1750.	1.1	7
67	Structure and dynamics of adenosine bulged RNA duplex reveals formation of the dinucleotide platform in the C:G-A triple. <i>Arkivoc</i> , 2009, 2009, 130-144.	0.5	7
68	O6-Protection and Other Transformations at Guanosine and Inosine Lactam Sites with Application of Related Pyridinium Salts. <i>Nucleosides &amp; Nucleotides</i> , 1987, 6, 273-277.	0.5	5
69	Synthesis and Application of N(6)-Phenoxycarbonyl-deoxy-adenosine Derivatives in Oligonucleotide Probes Chemistry. <i>Nucleosides &amp; Nucleotides</i> , 1991, 10, 595-597.	0.5	5
70	Pyridine assisted phosphorylations of nucleobase bis-lactam systems. Formation and reactivity of dipyridinium species.. <i>Tetrahedron</i> , 1993, 49, 5859-5868.	1.9	4
71	Fluorescent nucleoside derivatives: Luminescence study of 4-dimethylaminopyridinium chloride derived from guanosine. <i>Journal of Fluorescence</i> , 1994, 4, 283-286.	2.5	4
72	Photosensitized Preparation of Fluorescent Luminarosine and Analogues. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 1998, 17, 143-151.	1.1	4

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73	Preparation of HIV TAR RNA with RNA Scissors. <i>Journal of Biochemistry</i> , 1999, 126, 326-332.	1.7	4
74	Introductory data on dynamics of RNA bulge duplexes. 2-Aminopurine labelled adenosine loops. <i>Collection of Czechoslovak Chemical Communications</i> , 1996, 61, 265-267.	1.0	4
75	Synthesis and Carbon-13 Magnetic Spectra of Pyridinium Salts Derived from Nucleosides and Nucleobases. <i>Heterocycles</i> , 1988, 27, 2807.	0.7	3
76	Structure of N-(2-amino-6-puriny)pyridinium chloride dihydrate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1987, 43, 2110-2113.	0.4	2
77	Structure and Dynamics of Adenosine Loops in RNA Bulge Duplexes. <i>RNA Hydration at the Bulge Site.</i> , 1999, , 73-87.		2
78	First, Solid Support-Aided Introduction of Isopentyladenosine, Hypermodified Nucleose of tRNA, into Oligoribonucleotide Chain. <i>Nucleosides &amp; Nucleotides</i> , 1991, 10, 599-600.	0.5	1
79	Structure and Function of Nucleic Acids Under High Pressure. <i>Progress in Biotechnology</i> , 1996, 13, 189-194.	0.2	1
80	Chemical study directed towards 19F NMR analysis of trp repressor-operator interaction. <i>Collection of Czechoslovak Chemical Communications</i> , 1993, 58, 22-25.	1.0	1
81	Easily Available Column Device for Manual Oligonucleotide Synthesis on Solid Support by P(III) Methodology. <i>Nucleosides &amp; Nucleotides</i> , 1987, 6, 445-446.	0.5	0
82	The Solution NMR Structure of 2'-O-Methyl CGCGCG RNA Duplex. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 1995, 14, 983-984.	1.1	0
83	Structure and dynamics of the apical loop region of 29-mer hairpin of the TAR RNA HIV-1 sequence. , 1999, , .		0
84	Personalization of structural PDB files. <i>Acta Biochimica Polonica</i> , 2013, 60, 591-3.	0.5	0