Ryszard Stolarski

List of Publications by Year
in descending order

88	2,666	186265 28	197818 49
papers	citations	h-index	g-index

94	94	94	1743
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tricyclic Nucleobase Analogs and Their Ribosides as Substrates and Inhibitors of Purine-Nucleoside Phosphorylases III. Aminopurine Derivatives. Molecules, 2020, 25, 681.	3.8	3
2	Interactions of 2â€™-O-methyl oligoribonucleotides with the RNA models of the 30S subunit A-site. PLoS ONE, 2018, 13, e0191138.	2.5	3
3	Acetylpyrene-labelled 7-methylguanine nucleotides: unusual fluorescence properties and application to decapping scavenger activity monitoring. Organic and Biomolecular Chemistry, 2016, 14, 3863-3868.	2.8	10
4	Eukaryotic translation initiation is controlled by cooperativity effects within ternary complexes of 4Eâ€BP1, eIF4E, and the mRNA 5â€² cap. FEBS Letters, 2013, 587, 3928-3934.	2.8	17
5	Thermodynamics of Molecular Recognition of mRNA 5â€² Cap by Yeast Eukaryotic Initiation Factor 4E. Journal of Physical Chemistry B, 2011, 115, 8746-8754.	2.6	8
6	Dynamical insight into Caenorhabditis elegans eIF4E recognition specificity for mono-and trimethylated structures of mRNA 5â€² cap. Journal of Molecular Modeling, 2011, 17, 727-737.	1.8	6
7	Structural basis for nematode eIF4E binding an m 2,2,7 G-Cap and its implications for translation initiation. Nucleic Acids Research, 2011, 39, 8820-8832.	14.5	38
8	Diverse Role of Three Tyrosines in Binding of the RNA 5â€² Cap to the Human Nuclear Cap Binding Complex. Journal of Molecular Biology, 2009, 385, 618-627.	4.2	19
9	Stacking efficiency and flexibility analysis of aromatic amino acids in capâ€binding proteins. Proteins: Structure, Function and Bioinformatics, 2008, 71, 2026-2037.	2.6	7
10	Structural Changes of eIF4E upon Binding to the mRNA 5â€² Monomethylguanosine and Trimethylguanosine Cap. Biochemistry, 2008, 47, 2710-2720.	2.5	28
11	Assignment of the Absolute Configuration of P-Chiral 5â€²Mrna Cap Analogues Containing Phosphorothioate Moiety. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1301-1305.	1.1	1
12	Synthesis of³H and¹³C Labeled Mrna Cap Dinucleotidesâ€”Useful Tools for Nmr, Biochemical, and Biological Studies. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1315-1319.	1.1	3
13	Synthesis ofLeishmaniaCap-4 Intermediates, Cap-2 and Cap-3. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1339-1348.	1.1	2
14	Biophysical Approach to Studies of Capâ€“eIF4E Interaction by Synthetic Cap Analogs. Methods in Enzymology, 2007, 430, 209-245.	1.0	33
15	Synthesis of Antiâ€Reverse Cap Analogs (ARCAs) and their Applications in mRNA Translation and Stability. Methods in Enzymology, 2007, 431, 203-227.	1.0	79
16	Enzymatically stable 5â€² mRNA cap analogs: Synthesis and binding studies with human DcpS decapping enzyme. Bioorganic and Medicinal Chemistry, 2006, 14, 3223-3230.	3.0	51
17	A direct method for the synthesis of nucleoside 5â€²-methylenebis(phosphonate)s from nucleosides. Tetrahedron Letters, 2005, 46, 2417-2421.	1.4	38
18	Significance of the first transcribed nucleoside of capped RNA for ligand-induced folding of the cap-binding complex. Journal of Physics Condensed Matter, 2005, 17, S1495-S1502.	1.8	0

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19	The antiviral drug ribavirin does not mimic the 7-methylguanosine moiety of the mRNA cap structure in vitro. Rna, 2005, 11, 1505-1513.	3.5	37
20	Thermodynamics and conformational changes related to binding of eIF4E protein to mRNA 5â€² cap. Journal of Physics Condensed Matter, 2005, 17, S1483-S1494.	1.8	6
21	DEAGGREGATION OF eIF4E INDUCED BY mRNA 5â€² CAP BINDING. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 507-511.	1.1	4
22	NOVEL WAY OF CAPPING mRNA TRIMER AND STUDIES OF ITS INTERACTION WITH HUMAN NUCLEAR CAP-BINDING COMPLEX. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 1131-1134.	1.1	2
23	NOVEL DINUCLEOSIDE 5â€²,5â€²-TRIPHOSPHATE CAP ANALOGUES. SYNTHESIS AND AFFINITY FOR MURINE TRANSLATION FACTOR eIF4E. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 629-633.	1.1	6
24	SYNTHESIS AND PROPERTIES OF mRNA CAP ANALOGS CONTAINING PHOSPHOROTHIOATE MOIETY IN 5â€²,5â€²-TRIPHOSPHATE CHAIN. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 595-600.	1.1	10
25	SYNTHESIS AND BIOCHEMICAL PROPERTIES OF NOVEL mRNA 5â€² CAP ANALOGS RESISTANT TO ENZYMATIC HYDROLYSIS. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 615-621.	1.1	28
26	Specificity of recognition of mRNA 5' cap by human nuclear cap-binding complex. Rna, 2005, 11, 1355-1363.	3.5	59
27	SYNTHESIS AND ENZYMATIC CHARACTERIZATION OF METHYLENE ANALOGS OF ADENOSINE 5â€²-TETRAPHOSPHATE (P4A). Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 589-593.	1.1	6
28	Novel cap analogs for in vitro synthesis of mRNAs with high translational efficiency. Rna, 2004, 10, 1479-1487.	3.5	75
29	Thermodynamics of mRNA 5â€˜ Cap Binding by Eukaryotic Translation Initiation Factor eIF4Eâ€. Biochemistry, 2004, 43, 13305-13317.	2.5	41
30	Influence of Electric Charge Variation at Residues 209 and 159 on the Interaction of eIF4E with the mRNA 5â€˜ Terminusâ€. Biochemistry, 2004, 43, 5370-5379.	2.5	70
31	Chemical synthesis and binding activity of the trypanosomatid cap-4 structure. Rna, 2004, 10, 1469-1478.	3.5	33
32	Synthesis of Novel mRNA 5â€² Cap-Analogues: Dinucleoside P1, P3-Tri-, P1, P4-Tetra-, and P1, P5-Pentaphosphates. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 691-694.	1.1	17
33	Charge Distribution in 7-Methylguanine Regarding Cation-Ï€ Interaction with Protein Factor eIF4E. Biophysical Journal, 2003, 85, 1450-1456.	0.5	22
34	Partial Molar Volumes of mRNA 5â€² Cap Analogues. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1553-1556.	1.1	1
35	Influence of the Length of the Phosphate Chain in mRNA 5â€² Cap Analogues on Their Interaction with Eukaryotic Initiation Factor 4E. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1707-1710.	1.1	4
36	Binding Studies of Eukaryotic Initiation Factor eIF4E with Novel mRNA Dinucleotide Cap Analogues. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1703-1706.	1.1	2

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37	Interaction Between Yeast Eukaryotic Initiation Factor eIF4E and mRNA 5â€² Cap Analogues Differs from That for Murine eIF4E. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1711-1714.	1.1	9
38	Phosphorylation of eIF4E attenuates its interaction with mRNA 5' cap analogs by electrostatic repulsion: Intein-mediated protein ligation strategy to obtain phosphorylated protein. Rna, 2003, 9, 52-61.	3.5	124
39	Thermodynamics of 7-Methylguanosine Cation Stacking with Tryptophan upon mRNA 5â€² Cap Binding to Translation Factor eIF4E. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1557-1561.	1.1	3
40	Novel "anti-reverse" cap analogs with superior translational properties. Rna, 2003, 9, 1108-1122.	3.5	214
41	Thermodynamics of specific protein-RNA interactions.. Acta Biochimica Polonica, 2003, 50, 297-318.	0.5	12
42	Positive Heat Capacity Change upon Specific Binding of Translation Initiation Factor eIF4E to mRNA 5â€˜ Cap. Biochemistry, 2002, 41, 12140-12148.	2.5	62
43	Biophysical Studies of eIF4E Cap-binding Protein: Recognition of mRNA 5â€² Cap Structure and Synthetic Fragments of eIF4G and 4E-BP1 Proteins. Journal of Molecular Biology, 2002, 319, 615-635.	4.2	353
44	Interaction of three Caenorhabditis elegans isoforms of translation initiation factor eIF4E with mono- and trimethylated mRNA 5' cap analogues.. Acta Biochimica Polonica, 2002, 49, 671-682.	0.5	13
45	Interaction of three Caenorhabditis elegans isoforms of translation initiation factor eIF4E with mono- and trimethylated mRNA 5' cap analogues. Acta Biochimica Polonica, 2002, 49, 671-82.	0.5	5
46	Quantitative Assessment of mRNA Cap Analogues as Inhibitors of in Vitro Translationâ€. Biochemistry, 1999, 38, 8538-8547.	2.5	121
47	Fluorescence Studies on Association of Human Translation Initiation Factor eIF4E with mRNA cap-Analogues. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1999, 54, 278-284.	1.4	18
48	Spectroscopic studies on association of mRNA cap-analogues with human translation factor eIF4E. From modelling of interactions to inhibitory properties. , 1999, , .		5
49	Tautomerism, acid-base properties and conformation of methylated analogues of the promutagenic N4-hydroxycytosine. Biophysical Chemistry, 1998, 71, 87-98.	2.8	8
50	Multiple Isoforms of Eukaryotic Protein Synthesis Initiation Factor 4E in Caenorhabditis elegans Can Distinguish between Mono- and Trimethylated mRNA Cap Structures. Journal of Biological Chemistry, 1998, 273, 10538-10542.	3.4	84
51	Novel Electrochemically Derived Dimers of Methylated Uracils. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1997, 52, 742-748.	0.7	1
52	Fluorescence and NMR studies of intramolecular stacking of mRNA cap-analogues. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1997, 1354, 145-152.	2.4	16
53	Anodic decarboxylative oxidation of carboxymethyluracil and -thymine isomers. Tetrahedron, 1997, 53, 2609-2616.	1.9	6
54	1H-NMR studies on association of mRNA cap-analogues with tryptophan-containing peptides. BBA - Proteins and Proteomics, 1996, 1293, 97-105.	2.1	16

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55	1H NMR and fluorescence studies of new mRNA 5'-cap analogues. Collection of Czechoslovak Chemical Communications, 1996, 61, 197-202.	1.0	24
56	Inter- and intramolecular stacking of mRNA cap-analogues â€“ relevance to initiation of translation. Collection of Czechoslovak Chemical Communications, 1996, 61, 217-221.	1.0	3
57	Phosphorylation of Eukaryotic Protein Synthesis Initiation Factor 4E at Ser-209. Journal of Biological Chemistry, 1995, 270, 14597-14603.	3.4	196
58	Solid State and Solution Structure and Conformation of The Antiviral Acyclonucleoside 9-[4-Hydroxy-2-(hydroxymethyl)-butyl]guanine. Nucleosides & Nucleotides, 1995, 14, 1359-1377.	0.5	3
59	Structure and conformation of the cyclic phosphate of Ganciclovir, a broad-spectrum antiviral agent. Biochimica Et Biophysica Acta - General Subjects, 1994, 1200, 55-63.	2.4	7
60	Mechanism of hydroxylamine mutagenesis: Role of tautomerism, conformation and proton exchange on base pairing between the promutagen N6 methoxyadenosine and uridine. Biophysical Chemistry, 1993, 46, 207-215.	2.8	9
61	Synthesis of m22,7GTP- and m32,2,7GTP-Sepharose 4B: New affinity resins for isolation of cap binding proteins. Collection of Czechoslovak Chemical Communications, 1993, 58, 132-137.	1.0	8
62	Synthesis and properties of new NH2 and N7 substituted GMP and GTP 5'-mRNA cap analogues. Collection of Czechoslovak Chemical Communications, 1993, 58, 138-141.	1.0	15
63	Solution structure of the EcoRI DNA octamer containing 5-fluorouracil via restrained molecular dynamics using distance and torsion angle constraints extracted from NMR spectral simulations. Biochemistry, 1992, 31, 7027-7042.	2.5	47
64	Conformation of 3â€²-Substituted 2â€²,3â€²-Dideoxyribonucleosides in Aqueous Solution; Nucleoside Analogues with Potential Antiviral Activity. Nucleosides & Nucleotides, 1991, 10, 567-568.	0.5	0
65	Brief Methodological Survey of the Photochemistry of Nucleic Acid Constituents and Analogues, and Some Biological Applications, Including Photo-Affinity Labeling. , 1991, , 115-133.		0
66	Monophosphates and Cyclic Phosphates of Some Antiviral Acyclonucleosides: Synthesis, Conformation and Substrate/Inhibitor Properties in Some Enzyme Systems. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1990, 45, 293-299.	1.4	5
67	Synthesis, Conformation and Hydrolytic Stability of p¹,p³â€™Dinucleoside Triphosphates Related to mRNA 5â€²-cap, and Comparative Kinetic Studies on their Nucleoside and Nucleoside Monophosphate Analogs. Nucleosides & Nucleotides, 1990, 9, 599-618.	0.5	44
68	Solution Conformations of Some Acyclo Nucleoside and Nucleotide Analogues of Antiviral Acyclonucleosides, and Their Substrate/Inhibitor Properties in Several Enzyme Systems. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1988, 43, 231-242.	1.4	6
69	Mechanism of hydroxylamine mutagenesis: tautomeric shifts and proton exchange between the promutagen N6-methoxyadenosine and cytidine. Biochemistry, 1987, 26, 4332-4337.	2.5	33
70	Synthesis and properties of N2,3-ethenoguanosine and N2,3-ethenoguanosine 5'-diphosphate. Journal of Organic Chemistry, 1987, 52, 2374-2378.	3.2	31
71	Pyrimidine Homoribonucleosides: Synthesis, Solution Conformation, and Some Biological Properties. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1987, 42, 589-598.	1.4	4
72	One- and two-dimensional 1H-NMR investigations of two 19-base-pair analogues of the tet operator. FEBS Journal, 1987, 169, 603-609.	0.2	2

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73	Acyclo Nucleosides and Nucleotides: Synthesis, Conformation and Other Properties, and Behaviour in Some Enzyme Systems, of 2â€²,3â€²-Seco Purine Nucleosides, Nucleotides and 3â€²:5â€²-Cyclic Phosphates, Analogues of cAMP and cGMP. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1986, 41, 758-770.	1.4	9
74	Solid state and solution conformations of 1 -(Î²-D-2â€²,3â€²-secoribofuranosyl)-5,6-dichlorobenzimidazole, an acyclonucleoside analogue. Canadian Journal of Chemistry, 1985, 63, 1215-1221.	1.1	17
75	Conformation about the Glycosidic Bond and Susceptibility to 5 '-Nucleotidase of 8-Substituted Analogues of 5'-GMP. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1984, 39, 55-63.	1.4	13
76	Studies on the dynamic syn-anti equilibrium in purine nucleosides and nucleotides with the aid of 1H and 13C NMR spectroscopy. FEBS Journal, 1984, 138, 187-192.	0.2	41
77	Hydroxylamine and methoxyamine mutagenesis: displacement of the tautomeric equilibrium of the promutagen N6-methoxyadenosine by complementary base pairing. Biochemistry, 1984, 23, 2906-2913.	2.5	32
78	Hydroxylamine Mutagenesis: Observation of Inverted Watson-Crick Base-Pairing Between N4-Methoxycytosine and Adenine with the Aid of Natural-Abundance High-Resolution 15N NMR Spectroscopy. FEBS Journal, 1983, 130, 559-564.	0.2	28
79	Base pairing-induced shift in tautomeric equilibrium of a promutagenic analogue, N 6 -methoxyadenosine. FEBS Letters, 1983, 158, 128-130.	2.8	12
80	Synthesis of, and Conformational Studies on, 2-Trifluoromethyl, Substituted Benzimidazole Ribofuranosides. Nucleosides & Nucleotides, 1982, 1, 275-287.	0.5	8
81	Comparison of the solid state and solution conformations of R and S epimers of 8,5'-cycloadenosine and their relevance to some enzymic reactions. Biochemistry, 1981, 20, 3294-3301.	2.5	33
82	Solution Conformation of Benzimidazole Nucleosides with the Aid of Model Analogues. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1981, 36, 126-134.	1.4	6
83	NMR Studies on the syn-anti Dynamic Equilibrium in Purine Nucleosides and Nucleotides. FEBS Journal, 1980, 108, 111-121.	0.2	72
84	Preparation of 1-Î±-D-Arabinofuranosylbenzimidazole and Its 5,6-Dichloro Derivative, and the Direct Bromination of Benzimidazole Nucleosides. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1980, 35, 30-35.	1.4	11
85	Comparison of theoretical and experimental approaches to determination of conformation of nucleosides about the glycosidic bond. Nucleic Acids and Protein Synthesis, 1980, 610, 1-19.	1.7	30
86	A ¹H NMR Study of the Syn-Anti Dynamic Equilibrium in Adenine Nucleosides and Nucleotides with the Aid of Some Synthetic Model Analogues with Fixed Conformations. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1979, 34, 359-373.	1.4	32
87	Purine Nucleosides and Nucleotides Unequivocally in the Syn Conformation: Guanosine and 5â€²-GM P with 8-tert-Butyl and 8-(Î±-Hydroxyisopropyl) Substituents. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1978, 33, 902-907.	1.4	18
88	Studies on Prototropic Tautomerism in Neutral and Monoanionic Forms of Pyrimidines by Nuclear Magnetic Resonance Spectroscopy. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1977, 32, 894-900.	1.4	28