Edward Darzynkiewicz

List of Publications by Year
in descending order

156 papers	6,455 citations	66234 42 h-index	76769 74 g-index
164 all docs	164 docs citations	164 times ranked	4117 citing authors

#	Article	IF	Citations
1	A nuclear cap binding protein complex involved in pre-mRNA splicing. Cell, 1994, 78, 657-668.	13.5	493
2	MicroRNA Inhibition of Translation Initiation in Vitro by Targeting the Cap-Binding Complex eIF4F. Science, 2007, 317, 1764-1767.	6.0	458
3	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.	2.0	353
4	The trimethylguanosine cap structure of U1 snRNA is a component of a bipartite nuclear targeting signal. Cell, 1990, 62, 569-577.	13.5	314
5	Novel "anti-reverse" cap analogs with superior translational properties. Rna, 2003, 9, 1108-1122.	1.6	214
6	Phosphorylation of Eukaryotic Protein Synthesis Initiation Factor 4E at Ser-209. Journal of Biological Chemistry, 1995, 270, 14597-14603.	1.6	196
7	Characterization of hMTr1, a Human Cap1 2â€²-O-Ribose Methyltransferase*. Journal of Biological Chemistry, 2010, 285, 33037-33044.	1.6	136
8	Phosphorothioate cap analogs stabilize mRNA and increase translational efficiency in mammalian cells. Rna, 2007, 13, 1745-1755.	1.6	126
9	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.	1.6	124
10	Quantitative Assessment of mRNA Cap Analogues as Inhibitors of in Vitro Translationâ€. Biochemistry, 1999, 38, 8538-8547.	1.2	121
11	Synthesis and characterization of mRNA cap analogs containing phosphorothioate substitutions that bind tightly to eIF4E and are resistant to the decapping pyrophosphatase DcpS. Rna, 2008, 14, 1119-1131.	1.6	108
12	mRNA Decapping Is Promoted by an RNA-Binding Channel in Dcp2. Molecular Cell, 2008, 29, 324-336.	4.5	99
13	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.	1.6	84
14	Chemical synthesis and characterization of 7-methylguanosine cap analogs. Biochemistry, 1985, 24, 1701-1707.	1.2	79
15	Synthesis of Antiâ€Reverse Cap Analogs (ARCAs) and their Applications in mRNA Translation and Stability. Methods in Enzymology, 2007, 431, 203-227.	0.4	79
16	Structural analysis of human 2â€²-O-ribose methyltransferases involved in mRNA cap structure formation. Nature Communications, 2014, 5, 3004.	5.8	79
17	Binding Specificities and Potential Roles of Isoforms of Eukaryotic Initiation Factor 4E in Leishmania. Eukaryotic Cell, 2006, 5, 1969-1979.	3.4	77
18	Novel cap analogs for in vitro synthesis of mRNAs with high translational efficiency. Rna, 2004, 10, 1479-1487.	1.6	75

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19	Drosophila miR2 Primarily Targets the m7GpppN Cap Structure for Translational Repression. Molecular Cell, 2009, 35, 881-888.	4.5	74
20	Differential Inhibition of mRNA Degradation Pathways by Novel Cap Analogs. Journal of Biological Chemistry, 2006, 281, 1857-1867.	1.6	73
21	Stopped-flow Kinetic Analysis of eIF4E and Phosphorylated eIF4E Binding to Cap Analogs and Capped Oligoribonucleotides. Journal of Biological Chemistry, 2006, 281, 14927-14938.	1.6	71
22	Synthetic mRNA cap analogs with a modified triphosphate bridge â€" synthesis, applications and prospects. New Journal of Chemistry, 2010, 34, 829.	1.4	71
23	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.	1.2	70
24	Contribution of Trans-splicing, 5â€² -Leader Length, Cap-Poly(A) Synergism, and Initiation Factors to Nematode Translation in an Ascaris suum Embryo Cell-free System. Journal of Biological Chemistry, 2004, 279, 45573-45585.	1.6	67
25	Weak binding affinity of human 4EHP for mRNA cap analogs. Rna, 2007, 13, 691-697.	1.6	66
26	Evolutionary changes in the Leishmania eIF4F complex involve variations in the eIF4Eâ€"eIF4G interactions. Nucleic Acids Research, 2009, 37, 3243-3253.	6.5	65
27	Positive Heat Capacity Change upon Specific Binding of Translation Initiation Factor eIF4E to mRNA 5â€˜ Cap. Biochemistry, 2002, 41, 12140-12148.	1.2	62
28	Proximity of mRNA5â€²-region and 18S rRNA in eukaryotic initiation complexes. Nature, 1980, 286, 226-230.	13.7	60
29	A comparison of the binding of methylated cap analogs to wheat germ protein synthesis initiation factors 4F and (iso) 4F. Biochemistry, 1991, 30, 1624-1627.	1.2	59
30	Specificity of recognition of mRNA 5' cap by human nuclear cap-binding complex. Rna, 2005, 11, 1355-1363.	1.6	59
31	Inhibition of eukaryotic translation by nucleoside 5'-monophosphate analogs of mRNA 5'-cap: changes in N7 substituent affect analog activity. Biochemistry, 1989, 28, 4771-4778.	1.2	57
32	A spectroscopic study of the binding of N-7-substituted cap analogs to human protein synthesis initiation factor 4E. Biochemistry, 1990, 29, 3337-3341.	1.2	57
33	Nematode m7GpppG and m32,2,7GpppG decapping: Activities in Ascaris embryos and characterization of C. elegans scavenger DcpS. Rna, 2004, 10, 1609-1624.	1.6	53
34	Synthesis and properties of mRNA cap analogs containing imidodiphosphate moietyâ€"fairly mimicking natural cap structure, yet resistant to enzymatic hydrolysis. Bioorganic and Medicinal Chemistry, 2012, 20, 1699-1710.	1.4	52
35	Cap analogs modified with 1,2-dithiodiphosphate moiety protect mRNA from decapping and enhance its translational potential. Nucleic Acids Research, 2016, 44, gkw896.	6.5	52
36	Enzymatically stable 5â€² mRNA cap analogs: Synthesis and binding studies with human DcpS decapping enzyme. Bioorganic and Medicinal Chemistry, 2006, 14, 3223-3230.	1.4	51

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37	Inhibition of eukaryotic translation by analogs of messenger RNA 5'-cap: chemical and biological consequences of 5'-phosphate modifications of 7-methylguanosine 5'-monophosphate. Biochemistry, 1987, 26, 4372-4380.	1.2	50
38	Synthetic dinucleotide mRNA cap analogs with tetraphosphate 5â€²,5â€² bridge containing methylenebis(phosphonate) modification. Organic and Biomolecular Chemistry, 2009, 7, 4763.	1.5	50
39	Synthesis, properties, and biological activity of boranophosphate analogs of the mRNA cap: versatile tools for manipulation of therapeutically relevant cap-dependent processes. Nucleic Acids Research, 2014, 42, 10245-10264.	6.5	49
40	eIF4F-like complexes formed by cap-binding homolog TbEIF4E5 with TbEIF4G1 or TbEIF4G2 are implicated in post-transcriptional regulation in <i>Trypanosoma brucei</i>. Rna, 2014, 20, 1272-1286.	1.6	48
41	Cap-binding activity of an eIF4E homolog from Leishmania. Rna, 2004, 10, 1764-1775.	1.6	46
42	mRNAs containing the histone 3â€² stemâ€“loop are degraded primarily by decapping mediated by oligouridylation of the 3â€² end. Rna, 2013, 19, 1-16.	1.6	46
43	Synthesis, Conformation and Hydrolytic Stability of p¹,p³âˆ’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
44	Synthetic mRNAs with Superior Translation and Stability Properties. Methods in Molecular Biology, 2013, 969, 55-72.	0.4	44
45	Thermodynamics of mRNA 5â€˜ Cap Binding by Eukaryotic Translation Initiation Factor eIF4Eâ€. Biochemistry, 2004, 43, 13305-13317.	1.2	41
46	Trypanosoma brucei Translation Initiation Factor Homolog EIF4E6 Forms a Tripartite Cytosolic Complex with EIF4G5 and a Capping Enzyme Homolog. Eukaryotic Cell, 2014, 13, 896-908.	3.4	41
47	The g5R (D250) Gene of African Swine Fever Virus Encodes a Nudix Hydrolase That Preferentially Degrades Diphosphoinositol Polyphosphates. Journal of Virology, 2002, 76, 1415-1421.	1.5	39
48	Modified ARCA analogs providing enhanced translational properties of capped mRNAs. Cell Cycle, 2018, 17, 1624-1636.	1.3	39
49	A direct method for the synthesis of nucleoside 5â€²-methylenebis(phosphonate)s from nucleosides. Tetrahedron Letters, 2005, 46, 2417-2421.	0.7	38
50	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.	6.5	38
51	Assignment of reovirus mRNA ribosome binding sites to virion genome segments by nucleotide sequence analyses. Nucleic Acids Research, 1980, 8, 337-350.	6.5	37
52	The antiviral drug ribavirin does not mimic the 7-methylguanosine moiety of the mRNA cap structure in vitro. Rna, 2005, 11, 1505-1513.	1.6	37
53	CAP-MAP: cap analysis protocol with minimal analyte processing, a rapid and sensitive approach to analysing mRNA cap structures. Open Biology, 2020, 10, 190306.	1.5	36
54	Discrimination between mono- and trimethylated cap structures by two isoforms of Caenorhabditis elegans eIF4E. EMBO Journal, 2002, 21, 4680-4690.	3.5	35

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55	Phosphorothioate analogs of m7GTP are enzymatically stable inhibitors of cap-dependent translation. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1921-1925.	1.0	35
56	Towards mRNA with superior translational activity: synthesis and properties of ARCA tetraphosphates with single phosphorothioate modifications. New Journal of Chemistry, 2010, 34, 993.	1.4	35
57	Structural analysis of 5â€²â€•mRNAâ€“cap interactions with the human AGO2 MID domain. EMBO Reports, 2011, 12, 415-420.	2.0	35
58	A simple and rapid synthesis of nucleotide analogues containing a phosphorothioate moiety at the terminal position of the phosphate chain. Tetrahedron Letters, 2007, 48, 5475-5479.	0.7	34
59	Chemical synthesis and binding activity of the trypanosomatid cap-4 structure. Rna, 2004, 10, 1469-1478.	1.6	33
60	Biophysical Approach to Studies of Capâ€“eIF4E Interaction by Synthetic Cap Analogs. Methods in Enzymology, 2007, 430, 209-245.	0.4	33
61	Recognition of different nucleotidyl-derivatives as substrates of reactions catalyzed by various HIT-proteins. New Journal of Chemistry, 2010, 34, 888.	1.4	32
62	Translation, stability, and resistance to decapping of mRNAs containing caps substituted in the triphosphate chain with BH₃, Se, and NH. Rna, 2011, 17, 978-988.	1.6	32
63	7-Methylguanosine Diphosphate (m⁷GDP) Is Not Hydrolyzed but Strongly Bound by Decapping Scavenger (DcpS) Enzymes and Potently Inhibits Their Activity. Biochemistry, 2012, 51, 8003-8013.	1.2	32
64	Structural Insights into Parasite eIF4E Binding Specificity for m7G and m2,2,7G mRNA Caps. Journal of Biological Chemistry, 2009, 284, 31336-31349.	1.6	30
65	The Nematode Eukaryotic Translation Initiation Factor 4E/G Complex Works with a <i>trans</i>-Spliced Leader Stem-Loop To Enable Efficient Translation of Trimethylguanosine-Capped RNAs. Molecular and Cellular Biology, 2010, 30, 1958-1970.	1.1	30
66	Upregulation of RNA cap methyltransferase RNMT drives ribosome biogenesis during T cell activation. Nucleic Acids Research, 2021, 49, 6722-6738.	6.5	29
67	SYNTHESIS AND BIOCHEMICAL PROPERTIES OF NOVEL mRNA 5â€² CAP ANALOGS RESISTANT TO ENZYMATIC HYDROLYSIS. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 615-621.	0.4	28
68	Structural Changes of eIF4E upon Binding to the mRNA 5â€² Monomethylguanosine and Trimethylguanosine Cap. Biochemistry, 2008, 47, 2710-2720.	1.2	28
69	The synthesis of isopropylidene mRNA cap analogs modified with phosphorothioate moiety and their evaluation as promoters of mRNA translation. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3753-3758.	1.0	25
70	Five eIF4E isoforms from Arabidopsis thaliana are characterized by distinct features of cap analogs binding. Biochemical and Biophysical Research Communications, 2015, 456, 47-52.	1.0	25
71	Guanosine nucleotide analogs as inhibitors of alphavirus mRNA capping enzyme. Antiviral Research, 1999, 42, 35-46.	1.9	24
72	Synthesis and evaluation of fluorescent cap analogues for mRNA labelling. RSC Advances, 2013, 3, 20943.	1.7	24

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73	1H NMR and fluorescence studies of new mRNA 5'-cap analogues. Collection of Czechoslovak Chemical Communications, 1996, 61, 197-202.	1.0	24
74	Phosphoroselenoate Dinucleotides for Modification of mRNA 5â€² End. ChemBioChem, 2009, 10, 2469-2473.	1.3	23
75	Distinct Features of Cap Binding by eIF4E1b Proteins. Journal of Molecular Biology, 2015, 427, 387-405.	2.0	23
76	mRNA cap analogues substituted in the tetraphosphate chain with CX2: identification of O-to-CCl2 as the first bridging modification that confers resistance to decapping without impairing translation. Nucleic Acids Research, 2017, 45, 8661-8675.	6.5	23
77	Investigating the Consequences of eIF4E2 (4EHP) Interaction with 4E-Transporter on Its Cellular Distribution in HeLa Cells. PLoS ONE, 2013, 8, e72761.	1.1	23
78	Charge Distribution in 7-Methylguanine Regarding Cation-Ï€ Interaction with Protein Factor eIF4E. Biophysical Journal, 2003, 85, 1450-1456.	0.2	22
79	Synthesis of biotin labelled cap analogue â€" incorporable into mRNA transcripts and promoting cap-dependent translation. Organic and Biomolecular Chemistry, 2012, 10, 8570.	1.5	22
80	Phosphate-modified analogues of m 7 GTP and m 7 Gppppm 7 Gâ€"Synthesis and biochemical properties. Bioorganic and Medicinal Chemistry, 2015, 23, 5369-5381.	1.4	21
81	The TbMTr1 Spliced Leader RNA Cap 1 2 â€²-O-Ribose Methyltransferase from Trypanosoma brucei Acts with Substrate Specificity. Journal of Biological Chemistry, 2008, 283, 3161-3172.	1.6	20
82	Correlations of conformational parameters and equilibrium conformational states in a variety of Î²-d-arabinonucleosides and their analogues. Nucleic Acids and Protein Synthesis, 1979, 562, 177-191.	1.7	19
83	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.	2.0	19
84	Cap analog substrates reveal three clades of cap guanine-N2 methyltransferases with distinct methyl acceptor specificities. Rna, 2010, 16, 211-220.	1.6	19
85	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.	0.6	18
86	Amino-Functionalized 5â€² Cap Analogs as Tools for Site-Specific Sequence-Independent Labeling of mRNA. Bioconjugate Chemistry, 2017, 28, 1978-1992.	1.8	18
87	Association of nucleosides and their 5â€²-monophosphates with a tryptophan containing tripeptide, Trp-Leu-Glu: The source of an overestimation by fluorescence spectroscopy. Biophysical Chemistry, 1993, 47, 233-240.	1.5	17
88	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.	0.4	17
89	In vivo translation and stability of trans-spliced mRNAs in nematode embryos. Molecular and Biochemical Parasitology, 2007, 153, 95-106.	0.5	17
90	Triazole-containing monophosphate mRNA cap analogs as effective translation inhibitors. Rna, 2014, 20, 1539-1547.	1.6	17

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91	Cap analogs containing 6-thioguanosine â€“ reagents for the synthesis of mRNAs selectively photo-crosslinkable with cap-binding biomolecules. Organic and Biomolecular Chemistry, 2014, 12, 4841-4847.	1.5	17
92	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
93	A NOVEL APPROACH TO SOLID PHASE CHEMICAL SYNTHESIS OF OLIGONUCLEOTIDE mRNA CAP ANALOGS. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 601-605.	0.4	16
94	Hydrolytic activity of human Nudt16 enzyme on dinucleotide cap analogs and short capped oligonucleotides. Rna, 2018, 24, 633-642.	1.6	16
95	7-Methylguanine Nucleotides and Their Structural Analogues; Protolytic Equilibria, Complexing with Magnesium(II) Ion and Kinetics for Alkaline Opening of the Imidazole Ring.. Acta Chemica Scandinavica, 1988, 42b, 86-92.	0.7	16
96	Structure and conformation of pyrimidine lyxofuranosides. 1-.beta.-D-Lyxofuranosyluracil, 1-.beta.-D-lyxofuranosylcytosine, and some O'-methyl derivatives. Journal of the American Chemical Society, 1979, 101, 4724-4729.	6.6	15
97	Analysis of decapping scavenger cap complex using modified cap analogs reveals molecular determinants for efficient cap binding. FEBS Journal, 2013, 280, 6508-6527.	2.2	15
98	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
99	Base stacking of simple mRNA cap analogues. Biophysical Chemistry, 1989, 33, 289-293.	1.5	14
100	Identification of the HIT-45 protein from <i>Trypanosoma brucei</i> as an FHIT protein/dinucleoside triphosphatase: Substrate specificity studies on the recombinant and endogenous proteins. Rna, 2009, 15, 1554-1564.	1.6	14
101	Structural requirements for <i>Caenorhabditisâ€ƒelegans</i> DcpS substrates based on fluorescence and HPLC enzyme kinetic studies. FEBS Journal, 2010, 277, 3003-3013.	2.2	14
102	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.	0.3	13
103	Affinity resins containing enzymatically resistant mRNA cap analogsâ€"a new tool for the analysis of cap-binding proteins. Rna, 2012, 18, 1421-1432.	1.6	12
104	The Cu²⁺-Promoted Cleavage of mRNA 5â€²-<i>cap</i>Analogs: A Kinetic Study with P¹-(7-Methylguanosin-5â€²-yl) P³-(Nucleosid-5â€²-yl) Triphospates and P¹-(7-Methylguanosin-5â€²-yl) P⁴-(Guanosin-5â€²-yl) Tetraphosphate. Nucleosides & Nucleotides, 1999, 18, 11-21.	0.5	11
105	Towards novel efficient and stable nuclear import signals: synthesis and properties of trimethylguanosine cap analogs modified within the 5â€²,5â€²-triphosphate bridge. Organic and Biomolecular Chemistry, 2014, 12, 9184-9199.	1.5	11
106	Kinetic analysis of IFIT1 and IFIT5 interactions with different native and engineered RNAs and its consequences for designing mRNA-based therapeutics. Rna, 2020, 26, 58-68.	1.6	11
107	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.	0.4	10
108	Establishment of an in vitro trans-splicing system in Trypanosoma brucei that requires endogenous spliced leader RNA. Nucleic Acids Research, 2010, 38, e114-e114.	6.5	10

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109	Synthesis and evaluation of stability of m3G-CAP analogues in serum-supplemented medium and cytosolic extract. Bioorganic and Medicinal Chemistry, 2013, 21, 7921-7928.	1.4	10
110	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.	0.4	9
111	Methylene analogues of adenosine 5'-tetraphosphate. Their chemical synthesis and recognition by human and plant mononucleoside tetraphosphatases and dinucleoside tetraphosphatases. FEBS Journal, 2006, 273, 829-838.	2.2	9
112	Affinity of Dinucleotide Cap Analogues for Human Decapping Scavenger (hDcpS). Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1349-1352.	0.4	9
113	Clickable trimethylguanosine cap analogs modified within the triphosphate bridge: synthesis, conjugation to RNA and susceptibility to degradation. RSC Advances, 2016, 6, 8317-8328.	1.7	9
114	Spectrophotometric Determination of the pK Values for Dissociation of the Sugar Hydroxyls in Pyrimidine Arabinonucleosides. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1975, 30, 565-570.	0.6	8
115	Interaction of human decapping scavenger with 5â€² mRNA cap analogues: structural requirements for catalytic activity. Journal of Physics Condensed Matter, 2007, 19, 285217.	0.7	8
116	Thermodynamics of Molecular Recognition of mRNA 5â€² Cap by Yeast Eukaryotic Initiation Factor 4E. Journal of Physical Chemistry B, 2011, 115, 8746-8754.	1.2	8
117	How to find the optimal partnerâ€"studies of snurportin 1 interactions with U snRNA 5â€² TMG-cap analogues containing modified 2-amino group of 7-methylguanosine. Bioorganic and Medicinal Chemistry, 2015, 23, 4660-4668.	1.4	8
118	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
119	Conformational parameters of the carbohydrate moieties of Î±-arabinonucleosides. Carbohydrate Research, 1981, 92, 21-36.	1.1	7
120	Fluorescence studies on P1,P3-dinucleoside triphosphates related to mRNA cap: Acidity and intramolecular stacking. Collection of Czechoslovak Chemical Communications, 1990, 55, 2765-2768.	1.0	7
121	Thermodynamics and conformational changes related to binding of eIF4E protein to mRNA 5â€² cap. Journal of Physics Condensed Matter, 2005, 17, S1483-S1494.	0.7	6
122	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.	0.4	6
123	SYNTHESIS AND ENZYMATIC CHARACTERIZATION OF METHYLENE ANALOGS OF ADENOSINE 5â€²-TETRAPHOSPHATE (P4A). Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 589-593.	0.4	6
124	Effect of different N7 substitution of dinucleotide cap analogs on the hydrolytic susceptibility towards scavenger decapping enzymes (DcpS). Biochemical and Biophysical Research Communications, 2015, 464, 89-93.	1.0	6
125	Insight into the Binding and Hydrolytic Preferences of hNudt16 Based on Nucleotide Diphosphate Substrates. International Journal of Molecular Sciences, 2021, 22, 10929.	1.8	6
126	A fluorescence spectroscopic study on the binding of mRNA 5â€²-cap-analogs to human translation initiation factor eIF4E: a critical evaluation of the sources of error. Journal of Photochemistry and Photobiology B: Biology, 1998, 43, 158-163.	1.7	5

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127	Effect of the His-Tag Location on Decapping Scavenger Enzymes and Their Hydrolytic Activity toward Cap Analogs. ACS Omega, 2020, 5, 10759-10766.	1.6	5
128	Spectroscopic studies on association of mRNA cap-analogues with human translation factor eIF4E. From modelling of interactions to inhibitory properties. , 1999, , .		5
129	Catalytic efficiency of divalent metal salts in dinucleoside 5',5'-triphosphate bond formation. , 2002, , .		5
130	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.	0.3	5
131	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.	0.4	4
132	DEAGGREGATION OF eIF4E INDUCED BY mRNA 5â€² CAP BINDING. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 507-511.	0.4	4
133	Solid-Supported Synthesis of 5â€²-mRNA CAP-4 from Trypanosomatids. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1329-1333.	0.4	4
134	Molecular recognition of mRNA 5â€² cap by 3â€² poly(A)-specific ribonuclease (PARN) differs from interactions known for other cap-binding proteins. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 331-345.	1.1	4
135	Electroanalytical Study on Nicotinamide 7-Methylguanine Dinucleotide (Nm7GD+), Analog of Coenzyme NAD+and Related Compounds. Nucleosides & Nucleotides, 1990, 9, 437-438.	0.5	3
136	Study of the 2719 mutant of the c-H-ras oncogene in a bi-intronic alternative splicing system. Oncogene, 2002, 21, 5649-5653.	2.6	3
137	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.	0.4	3
138	Synthesis of^{3}H and^{13}C Labeled Mrna Cap Dinucleotidesâ€"Useful Tools for Nmr, Biochemical, and Biological Studies. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1315-1319.	0.4	3
139	Synthesis, conformation and hydrolytic stability of modified mRNA 5'-cap structures: P1,P3-dinucleoside triphosphates derived from guanosine and acyclic analogues of 7-methyl-, N2,7-dimethyl- and N2,N2,7-trimethylguanosines. Collection of Czechoslovak Chemical Communications, 1990, 55, 117-120.	1.0	3
140	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
141	Kinetics of the Imidazolium Ring-Opening of mRNA 5'-cap Analogs in Aqueous Alkali. Collection of Czechoslovak Chemical Communications, 2006, 71, 567-578.	1.0	3
142	Binding Studies of Eukaryotic Initiation Factor eIF4E with Novel mRNA Dinucleotide Cap Analogues. Nucleosides, Nucleotides and Nucleic Acids, 2003, 22, 1703-1706.	0.4	2
143	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.	0.4	2
144	Trimethylguanosine Nucleoside Inhibits Cross-Linking Between Snurportin 1 and m3G-CAPPED U1 snRNA. Nucleosides, Nucleotides and Nucleic Acids, 2006, 25, 909-923.	0.4	2

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145	Synthesis of<i>Leishmania</i>Cap-4 Intermediates, Cap-2 and Cap-3. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1339-1348.	0.4	2
146	Bisphosphonate mRNA cap analog attached to Sepharose for affinity chromatography of decapping enzymes. Nucleic Acids Symposium Series, 2008, 52, 295-296.	0.3	2
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