Jacek Jemielity

List of Publications by Year
in descending order

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140 papers	3,619 citations	126708 33 h-index	182168 51 g-index
153 all docs	153 docs citations	153 times ranked	2574 citing authors

#	Article	IF	Citations
1	Ethylenediamine derivatives efficiently react with oxidized RNA 3â€² ends providing access to mono and dually labelled RNA probes for enzymatic assays andin vivotranslation. Nucleic Acids Research, 2022, 50, e3-e3.	6.5	4
2	Fluorinated Phosphoadenosine 5â€²-Phosphosulfate Analogues for Continuous Sulfotransferase Activity Monitoring and Inhibitor Screening by ¹⁹F NMR Spectroscopy. ACS Chemical Biology, 2022, 17, 661-669.	1.6	2
3	Structure of the poxvirus decapping enzyme D9 reveals its mechanism of cap recognition and catalysis. Structure, 2022, 30, 721-732.e4.	1.6	8
4	Substrate-Based Design of Cytosolic Nucleotidase IIIB Inhibitors and Structural Insights into Inhibition Mechanism. Pharmaceuticals, 2022, 15, 554.	1.7	1
5	Fluorescence-Based Activity Screening Assay Reveals Small Molecule Inhibitors of Vaccinia Virus mRNA Decapping Enzyme D9. ACS Chemical Biology, 2022, 17, 1460-1471.	1.6	3
6	Chemically Modified Poly(A) Analogs Targeting PABP: Structure Activity Relationship and Translation Inhibitory Properties. Chemistry - A European Journal, 2022, 28, .	1.7	3
7	Introducing SuFNucs: Sulfamoyl-Fluoride-Functionalized Nucleosides That Undergo Sulfur Fluoride Exchange Reaction. Organic Letters, 2022, 24, 4977-4981.	2.4	4
8	Structural Insights into the Interaction of Clinically Relevant Phosphorothioate mRNA Cap Analogs with Translation Initiation Factor 4E Reveal Stabilization via Electrostatic Thio-Effect. ACS Chemical Biology, 2021, 16, 334-343.	1.6	16
9	Cellular delivery of dinucleotides by conjugation with small molecules: targeting translation initiation for anticancer applications. Chemical Science, 2021, 12, 10242-10251.	3.7	6
10	The Strategies to Support the COVID-19 Vaccination with Evidence-Based Communication and Tackling Misinformation. Vaccines, 2021, 9, 109.	2.1	97
11	Biomolecular condensates amplify mRNA decapping by biasing enzyme conformation. Nature Chemical Biology, 2021, 17, 615-623.	3.9	49
12	Evaluation of carboxyfluorescein-labeled 7-methylguanine nucleotides as probes for studying cap-binding proteins by fluorescence anisotropy. Scientific Reports, 2021, 11, 7687.	1.6	5
13	Upregulation of RNA cap methyltransferase RNMT drives ribosome biogenesis during T cell activation. Nucleic Acids Research, 2021, 49, 6722-6738.	6.5	29
14	RNA Ligation for Mono and Dually Labeled RNAs. Chemistry - A European Journal, 2021, 27, 12190-12197.	1.7	6
15	Nucleotide-decorated AuNPs as probes for nucleotide-binding proteins. Scientific Reports, 2021, 11, 15741.	1.6	2
16	Enzymatic Assays to Explore Viral mRNA Capping Machinery. ChemBioChem, 2021, 22, 3236-3253.	1.3	10
17	Identification and evaluation of potential SARS-CoV-2 antiviral agents targeting mRNA cap guanine N7-Methyltransferase. Antiviral Research, 2021, 193, 105142.	1.9	19
18	Novel N7-Arylmethyl Substituted Dinucleotide mRNA 5â€² cap Analogs: Synthesis and Evaluation as Modulators of Translation. Pharmaceutics, 2021, 13, 1941.	2.0	11

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19	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
20	Solidâ€Phase Synthesis of RNA 5â€²â€Azides and Their Application for Labeling, Ligation, and Cyclization Via Click Chemistry. Current Protocols in Nucleic Acid Chemistry, 2020, 82, e112.	0.5	6
21	Phosphodiester modifications in mRNA poly(A) tail prevent deadenylation without compromising protein expression. Rna, 2020, 26, 1815-1837.	1.6	33
22	Efficient Synthesis of Trifluoromethylated Purine Ribonucleosides and Ribonucleotides. Current Protocols in Nucleic Acid Chemistry, 2020, 83, e118.	0.5	3
23	5â€²-fluoro(di)phosphate-labeled oligonucleotides are versatile molecular probes for studying nucleic acid secondary structure and interactions by 19F NMR. Nucleic Acids Research, 2020, 48, 8209-8224.	6.5	14
24	The identity and methylation status of the first transcribed nucleotide in eukaryotic mRNA 5â€² cap modulates protein expression in living cells. Nucleic Acids Research, 2020, 48, 1607-1626.	6.5	76
25	Synthesis of Trifluoromethylated Purine Ribonucleotides and Their Evaluation as 19F NMR Probes. Journal of Organic Chemistry, 2020, 85, 3440-3453.	1.7	18
26	Direct Highâ€Throughput Screening Assay for mRNA Cap Guanineâ€N7 Methyltransferase Activity. Chemistry - A European Journal, 2020, 26, 11266-11275.	1.7	6
27	Exploring tryptamine conjugates as pronucleotides of phosphate-modified 7-methylguanine nucleotides targeting cap-dependent translation. Bioorganic and Medicinal Chemistry, 2020, 28, 115523.	1.4	5
28	N1-Propargylguanosine Modified mRNA Cap Analogs: Synthesis, Reactivity, and Applications to the Study of Cap-Binding Proteins. Molecules, 2019, 24, 1899.	1.7	6
29	Fluorescent Turnâ€On Probes for the Development of Binding and Hydrolytic Activity Assays for mRNA Capâ€Recognizing Proteins. Chemistry - A European Journal, 2019, 25, 6728-6740.	1.7	10
30	5â€²-Phosphorothiolate Dinucleotide Cap Analogues: Reagents for Messenger RNA Modification and Potent Small-Molecular Inhibitors of Decapping Enzymes. Journal of the American Chemical Society, 2018, 140, 5987-5999.	6.6	61
31	Structure of the activated Edc1-Dcp1-Dcp2-Edc3 mRNA decapping complex with substrate analog poised for catalysis. Nature Communications, 2018, 9, 1152.	5.8	38
32	mRNAs biotinylated within the 5â€² cap and protected against decapping: new tools to capture RNAâ€“protein complexes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20180167.	1.8	8
33	Nicotinamide-Containing Di- and Trinucleotides as Chemical Tools for Studies of NAD-Capped RNAs. Organic Letters, 2018, 20, 7650-7655.	2.4	17
34	Roquin targets mRNAs in a 3â€²-UTR-specific manner by different modes of regulation. Nature Communications, 2018, 9, 3810.	5.8	40
35	Exploring the potential of phosphotriazole 5â€² mRNA cap analogues as efficient translation initiators. Organic and Biomolecular Chemistry, 2018, 16, 6741-6748.	1.5	11
36	ExciTides: NTP-derived probes for monitoring pyrophosphatase activity based on excimer-to-monomer transitions. Chemical Communications, 2018, 54, 9773-9776.	2.2	6

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37	Applications of Phosphate Modification and Labeling to Study (m)RNA Caps. Topics in Current Chemistry, 2017, 375, 16.	3.0	42
38	Central Regulatory Role for SIN1 in Interferon Î³ (IFNÎ³) Signaling and Generation of Biological Responses. Journal of Biological Chemistry, 2017, 292, 4743-4752.	1.6	6
39	eIF4E phosphorylation by MST1 reduces translation of a subset of mRNAs, but increases lncRNA translation. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2017, 1860, 761-772.	0.9	27
40	Synthesis of RNA 5â€²-Azides from 2â€²-O-Pivaloyloxymethyl-Protected RNAs and Their Reactivity in Azideâ€“Alkyne Cycloaddition Reactions. Organic Letters, 2017, 19, 3624-3627.	2.4	11
41	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
42	AzidoâEFunctionalized 5â€² Cap Analogues for the Preparation of Translationally Active mRNAs Suitable for Fluorescent Labeling in Living Cells. Angewandte Chemie - International Edition, 2017, 56, 15628-15632.	7.2	23
43	Analysis of mononucleotides by tandem mass spectrometry: investigation of fragmentation pathways for phosphate- and ribose-modified nucleotide analogues. Scientific Reports, 2017, 7, 8931.	1.6	30
44	AzidoâEFunctionalized 5â€² Cap Analogues for the Preparation of Translationally Active mRNAs Suitable for Fluorescent Labeling in Living Cells. Angewandte Chemie, 2017, 129, 15834-15838.	1.6	6
45	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
46	A novel route for preparing 5â€² cap mimics and capped RNAs: phosphate-modified cap analogues obtained via click chemistry. Chemical Science, 2017, 8, 260-267.	3.7	32
47	Kinetic and solvent isotope effects on biotransformation of aromatic amino acids and their derivatives. Journal of Labelled Compounds and Radiopharmaceuticals, 2016, 59, 627-634.	0.5	1
48	Synthetic Capped mRNAs for Cap-Specific Photo-Cross-Linking Experiments. Methods in Molecular Biology, 2016, 1428, 31-43.	0.4	0
49	Synthetic m3G-CAP attachment necessitates a minimum trinucleotide constituent to be recognised as a nuclear import signal. RSC Advances, 2016, 6, 51367-51373.	1.7	8
50	Structural basis of mRNA-cap recognition by Dcp1â€“Dcp2. Nature Structural and Molecular Biology, 2016, 23, 987-994.	3.6	45
51	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
52	Two-headed tetraphosphate cap analogs are inhibitors of the Dcp1/2 RNA decapping complex. Rna, 2016, 22, 518-529.	1.6	10
53	A fluorescent HTS assay for phosphohydrolases based on nucleoside 5â€²-fluorophosphates: its application in screening for inhibitors of mRNA decapping scavenger and PDE-I. Organic and Biomolecular Chemistry, 2016, 14, 4595-4604.	1.5	19
54	Interferon Î³ (IFNÎ³) Signaling via Mechanistic Target of Rapamycin Complex 2 (mTORC2) and Regulatory Effects in the Generation of Type II Interferon Biological Responses. Journal of Biological Chemistry, 2016, 291, 2389-2396.	1.6	25

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55	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
56	Acetylpyrene-labelled 7-methylguanine nucleotides: unusual fluorescence properties and application to decapping scavenger activity monitoring. Organic and Biomolecular Chemistry, 2016, 14, 3863-3868.	1.5	10
57	mRNA Cap Modification through CarbÂamate Chemistry: Synthesis of Aminoâ€•and Carboxyâ€Functionalised Cap Analogues Suitable for Labelling and Bioconjugation. European Journal of Organic Chemistry, 2015, 2015, 6153-6169.	1.2	5
58	Ethynyl, 2-Propynyl, and 3-Butynyl C-Phosphonate Analogues of Nucleoside Di- and Triphosphates: Synthesis and Reactivity in CuAAC. Organic Letters, 2015, 17, 3062-3065.	2.4	28
59	Synthesis of Fluorophosphate Nucleotide Analogues and Their Characterization as Tools for19F NMR Studies. Journal of Organic Chemistry, 2015, 80, 3982-3997.	1.7	35
60	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
61	Gold-decorated polymer vessel structures as carriers of mRNA cap analogs. Polymer, 2015, 57, 77-87.	1.8	6
62	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
63	Virus-like particle-mediated intracellular delivery of mRNA cap analog with in vivo activity against hepatocellular carcinoma. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 67-76.	1.7	35
64	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
65	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
66	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
67	Magnetic-Nanoparticle-Decorated Polypyrrole Microvessels: Toward Encapsulation of mRNA Cap Analogues. Biomacromolecules, 2013, 14, 1867-1876.	2.6	17
68	Synthesis and evaluation of fluorescent cap analogues for mRNA labelling. RSC Advances, 2013, 3, 20943.	1.7	24
69	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
70	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
71	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
72	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

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73	Synthetic mRNAs with Superior Translation and Stability Properties. Methods in Molecular Biology, 2013, 969, 55-72.	0.4	44
74	Efficient and Rapid Synthesis of Nucleoside Diphosphate Sugars from Nucleoside Phosphorimidazolides. European Journal of Organic Chemistry, 2013, 2013, 2147-2154.	1.2	20
75	Potential therapeutic applications of RNA cap analogs. Future Medicinal Chemistry, 2013, 5, 1141-1172.	1.1	62
76	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
77	Preparation of Synthetically Challenging Nucleotides Using Cyanoethyl P-Imidazolides and Microwaves. Organic Letters, 2012, 14, 4782-4785.	2.4	45
78	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
79	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
80	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
81	Synthesis of nucleoside phosphosulfates. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 3661-3664.	1.0	19
82	Structural analysis of 5â€²â€mRNAâ€“cap interactions with the human AGO2 MID domain. EMBO Reports, 2011, 12, 415-420.	2.0	35
83	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
84	Plant nucleoside 5'-phosphoramidate hydrolase; simple purification from yellow lupin (Lupinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	0.3	15
85	Plant nucleoside 5'-phosphoramidate hydrolase; simple purification from yellow lupin (Lupinus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.3	7
86	Dual activity of certain HITâ€proteins: A. thaliana Hint4 and C. elegans DcpS act on adenosine 5â€²â€phosphosulfate as hydrolases (forming AMP) and as phosphorylases (forming ADP). FEBS Letters, 2010, 584, 93-98.	1.3	20
87	Structural requirements for Caenorhabditisâ€ƒelegans DcpS substrates based on fluorescence and HPLC enzyme kinetic studies. FEBS Journal, 2010, 277, 3003-3013.	2.2	14
88	Phosphorothioate cap analogs increase stability and translational efficiency of RNA vaccines in immature dendritic cells and induce superior immune responses in vivo. Gene Therapy, 2010, 17, 961-971.	2.3	186
89	Synthetic mRNA cap analogs with a modified triphosphate bridge â€“ synthesis, applications and prospects. New Journal of Chemistry, 2010, 34, 829.	1.4	71
90	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

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91	Recognition of different nucleotidyl-derivatives as substrates of reactions catalyzed by various HIT-proteins. New Journal of Chemistry, 2010, 34, 888.	1.4	32
92	Identification of the HIT-45 protein from Trypanosoma brucei as an FHIT protein/dinucleoside triphosphatase: Substrate specificity studies on the recombinant and endogenous proteins. Rna, 2009, 15, 1554-1564.	1.6	14
93	Phosphoroselenoate Dinucleotides for Modification of mRNA 5â€² End. ChemBioChem, 2009, 10, 2469-2473.	1.3	23
94	Phosphorothioate analogs of m7GTP are enzymatically stable inhibitors of cap-dependent translation. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 1921-1925.	1.0	35
95	Drosophila miR2 Primarily Targets the m7GpppN Cap Structure for Translational Repression. Molecular Cell, 2009, 35, 881-888.	4.5	74
96	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
97	Decapping of mRNA containing the histone 3â€²â€stem loop requires recruitment of stem loop binding protein (SLBP). FASEB Journal, 2009, 23, .	0.2	0
98	mRNA Decapping Is Promoted by an RNA-Binding Channel in Dcp2. Molecular Cell, 2008, 29, 324-336.	4.5	99
99	The first examples of mRNA cap analogs bearing boranophosphate modification. Nucleic Acids Symposium Series, 2008, 52, 289-290.	0.3	7
100	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
101	Adenosine 5â€²-Tetraphosphate Is a Highly Potent Purinergic Endothelium-Derived Vasoconstrictor. Circulation Research, 2008, 103, 1100-1108.	2.0	19
102	m7GTPÂS is a strong and stable inhibitor of cap-dependent translation. Nucleic Acids Symposium Series, 2008, 52, 291-292.	0.3	0
103	Bisphosphonate mRNA cap analog attached to Sepharose for affinity chromatography of decapping enzymes. Nucleic Acids Symposium Series, 2008, 52, 295-296.	0.3	2
104	Synthesis and biochemical studies of tetraphosphate 5' mRNA cap analogs bearing bisphosphonate modification. Nucleic Acids Symposium Series, 2008, 52, 287-288.	0.3	0
105	Synthesis and properties of boranophosphate mRNA cap analogues. , 2008, , .		2
106	Bisphosphonate modification in tetraphosphate 5'mRNA cap analogs â€“ synthesis and biochemical properties. , 2008, , .		1
107	Affinity of Dinucleotide Cap Analogues for Human Decapping Scavenger (hDcpS). Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1349-1352.	0.4	9
108	Assignment of the Absolute Configuration of P-Chiral 5â€²Mrna Cap Analogues Containing Phosphorothioate Moiety. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1301-1305.	0.4	1

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109	Synthesis of³H and¹³C Labeled Mrna Cap Dinucleotidesâ€"Useful Tools for Nmr, Biochemical, and Biological Studies. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1315-1319.	0.4	3
110	Solid-Supported Synthesis of 5â€²-mRNA CAP-4 from Trypanosomatids. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1329-1333.	0.4	4
111	Weak binding affinity of human 4EHP for mRNA cap analogs. Rna, 2007, 13, 691-697.	1.6	66
112	Phosphorothioate cap analogs stabilize mRNA and increase translational efficiency in mammalian cells. Rna, 2007, 13, 1745-1755.	1.6	126
113	Synthesis ofLeishmaniaCap-4 Intermediates, Cap-2 and Cap-3. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1339-1348.	0.4	2
114	Kinetics of C. Elegans DcpS Cap Hydrolysis Studied by Fluorescence Spectroscopy. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1211-1215.	0.4	1
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	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
117	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
118	Differential Inhibition of mRNA Degradation Pathways by Novel Cap Analogs. Journal of Biological Chemistry, 2006, 281, 1857-1867.	1.6	73
119	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
120	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
121	A direct method for the synthesis of nucleoside 5â€²-methylenebis(phosphonate)s from nucleosides. Tetrahedron Letters, 2005, 46, 2417-2421.	0.7	38
122	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
123	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
124	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
125	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
126	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

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127	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
128	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
129	Chemical synthesis and binding activity of the trypanosomatid cap-4 structure. Rna, 2004, 10, 1469-1478.	1.6	33
130	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
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	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
133	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
134	Novel "anti-reverse" cap analogs with superior translational properties. Rna, 2003, 9, 1108-1122.	1.6	214
135	Synthesis of tritium labeled isotopomers ofL-tyrosine. Journal of Labelled Compounds and Radiopharmaceuticals, 2002, 45, 559-567.	0.5	6
136	Catalytic efficiency of divalent metal salts in dinucleoside 5',5'-triphosphate bond formation. , 2002, , .		5
137	Synthesis of tritium labeled [3R-3H]-, and [3S-3H]-L-phenylalanine. Journal of Labelled Compounds and Radiopharmaceuticals, 2001, 44, 295-304.	0.5	5
138	Enzymatic syntheses of carbon-14 labeled isotopomers of L-phenylalanine. Journal of Radioanalytical and Nuclear Chemistry, 2001, 247, 371-374.	0.7	7
139	Tritium Secondary Kinetic Isotope Effect on Phenylalanine Ammonia-Lyase-Catalyzed Reaction. Archives of Biochemistry and Biophysics, 1999, 370, 216-221.	1.4	17
140	Enzymatic Synthesis of [1-¹³C]- and [1-¹⁴C]-L-Phenyl-Alanine. Isotopes in Environmental and Health Studies, 1998, 34, 335-339.	0.5	13