

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	Novel "anti-reverse" cap analogs with superior translational properties. <i>Rna</i> , 2003, 9, 1108-1122.	1.6	214
2	Phosphorothioate cap analogs increase stability and translational efficiency of RNA vaccines in immature dendritic cells and induce superior immune responses in vivo. <i>Gene Therapy</i> , 2010, 17, 961-971.	2.3	186
3	Phosphorothioate cap analogs stabilize mRNA and increase translational efficiency in mammalian cells. <i>Rna</i> , 2007, 13, 1745-1755.	1.6	126
4	Synthesis and characterization of mRNA cap analogs containing phosphorothioate substitutions that bind tightly to eIF4E and are resistant to the decapping pyrophosphatase DcpS. <i>Rna</i> , 2008, 14, 1119-1131.	1.6	108
5	mRNA Decapping Is Promoted by an RNA-Binding Channel in Dcp2. <i>Molecular Cell</i> , 2008, 29, 324-336.	4.5	99
6	The Strategies to Support the COVID-19 Vaccination with Evidence-Based Communication and Tackling Misinformation. <i>Vaccines</i> , 2021, 9, 109.	2.1	97
7	Synthesis of Anti-Reverse Cap Analogs (ARCAs) and their Applications in mRNA Translation and Stability. <i>Methods in Enzymology</i> , 2007, 431, 203-227.	0.4	79
8	The identity and methylation status of the first transcribed nucleotide in eukaryotic mRNA 5' cap modulates protein expression in living cells. <i>Nucleic Acids Research</i> , 2020, 48, 1607-1626.	6.5	76
9	Drosophila miR2 Primarily Targets the m7GpppN Cap Structure for Translational Repression. <i>Molecular Cell</i> , 2009, 35, 881-888.	4.5	74
10	Differential Inhibition of mRNA Degradation Pathways by Novel Cap Analogs. <i>Journal of Biological Chemistry</i> , 2006, 281, 1857-1867.	1.6	73
11	Synthetic mRNA cap analogs with a modified triphosphate bridge – synthesis, applications and prospects. <i>New Journal of Chemistry</i> , 2010, 34, 829.	1.4	71
12	Influence of Electric Charge Variation at Residues 209 and 159 on the Interaction of eIF4E with the mRNA 5' Terminus. <i>Biochemistry</i> , 2004, 43, 5370-5379.	1.2	70
13	Weak binding affinity of human 4EHP for mRNA cap analogs. <i>Rna</i> , 2007, 13, 691-697.	1.6	66
14	Potential therapeutic applications of RNA cap analogs. <i>Future Medicinal Chemistry</i> , 2013, 5, 1141-1172.	1.1	62
15	5'-Phosphorothiolate Dinucleotide Cap Analogues: Reagents for Messenger RNA Modification and Potent Small-Molecular Inhibitors of Decapping Enzymes. <i>Journal of the American Chemical Society</i> , 2018, 140, 5987-5999.	6.6	61
16	Synthesis and properties of mRNA cap analogs containing imidodiphosphate moiety – fairly mimicking natural cap structure, yet resistant to enzymatic hydrolysis. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 1699-1710.	1.4	52
17	Cap analogs modified with 1,2-dithiodiphosphate moiety protect mRNA from decapping and enhance its translational potential. <i>Nucleic Acids Research</i> , 2016, 44, gkw896.	6.5	52
18	Enzymatically stable 5' mRNA cap analogs: Synthesis and binding studies with human DcpS decapping enzyme. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 3223-3230.	1.4	51

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19	Synthetic dinucleotide mRNA cap analogs with tetraphosphate 5'5' bridge containing methylenebis(phosphonate) modification. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 4763.	1.5	50
20	Synthesis, properties, and biological activity of boranophosphate analogs of the mRNA cap: versatile tools for manipulation of therapeutically relevant cap-dependent processes. <i>Nucleic Acids Research</i> , 2014, 42, 10245-10264.	6.5	49
21	Biomolecular condensates amplify mRNA decapping by biasing enzyme conformation. <i>Nature Chemical Biology</i> , 2021, 17, 615-623.	3.9	49
22	mRNAs containing the histone 3' stem-loop are degraded primarily by decapping mediated by oligouridylation of the 3' end. <i>Rna</i> , 2013, 19, 1-16.	1.6	46
23	Preparation of Synthetically Challenging Nucleotides Using Cyanoethyl P-Imidazolides and Microwaves. <i>Organic Letters</i> , 2012, 14, 4782-4785.	2.4	45
24	Structural basis of mRNA-cap recognition by Dcp1-Dcp2. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 987-994.	3.6	45
25	Synthetic mRNAs with Superior Translation and Stability Properties. <i>Methods in Molecular Biology</i> , 2013, 969, 55-72.	0.4	44
26	Applications of Phosphate Modification and Labeling to Study (m)RNA Caps. <i>Topics in Current Chemistry</i> , 2017, 375, 16.	3.0	42
27	Roquin targets mRNAs in a 3'-UTR-specific manner by different modes of regulation. <i>Nature Communications</i> , 2018, 9, 3810.	5.8	40
28	A direct method for the synthesis of nucleoside 5'-methylenebis(phosphonate)s from nucleosides. <i>Tetrahedron Letters</i> , 2005, 46, 2417-2421.	0.7	38
29	Structure of the activated Edc1-Dcp1-Dcp2-Edc3 mRNA decapping complex with substrate analog poised for catalysis. <i>Nature Communications</i> , 2018, 9, 1152.	5.8	38
30	The antiviral drug ribavirin does not mimic the 7-methylguanosine moiety of the mRNA cap structure in vitro. <i>Rna</i> , 2005, 11, 1505-1513.	1.6	37
31	Phosphorothioate analogs of m ⁷ GTP are enzymatically stable inhibitors of cap-dependent translation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 1921-1925.	1.0	35
32	Towards mRNA with superior translational activity: synthesis and properties of ARCA tetraphosphates with single phosphorothioate modifications. <i>New Journal of Chemistry</i> , 2010, 34, 993.	1.4	35
33	Structural analysis of 5' m ⁷ mRNA cap interactions with the human AGO2 MID domain. <i>EMBO Reports</i> , 2011, 12, 415-420.	2.0	35
34	Synthesis of Fluorophosphate Nucleotide Analogues and Their Characterization as Tools for ¹⁹ F NMR Studies. <i>Journal of Organic Chemistry</i> , 2015, 80, 3982-3997.	1.7	35
35	Virus-like particle-mediated intracellular delivery of mRNA cap analog with in vivo activity against hepatocellular carcinoma. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 67-76.	1.7	35
36	A simple and rapid synthesis of nucleotide analogues containing a phosphorothioate moiety at the terminal position of the phosphate chain. <i>Tetrahedron Letters</i> , 2007, 48, 5475-5479.	0.7	34

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37	Chemical synthesis and binding activity of the trypanosomatid cap-4 structure. <i>Rna</i> , 2004, 10, 1469-1478.	1.6	33
38	Phosphodiester modifications in mRNA poly(A) tail prevent deadenylation without compromising protein expression. <i>Rna</i> , 2020, 26, 1815-1837.	1.6	33
39	Recognition of different nucleotidyl-derivatives as substrates of reactions catalyzed by various HIT-proteins. <i>New Journal of Chemistry</i> , 2010, 34, 888.	1.4	32
40	Translation, stability, and resistance to decapping of mRNAs containing caps substituted in the triphosphate chain with BH ₃ , Se, and NH. <i>Rna</i> , 2011, 17, 978-988.	1.6	32
41	7-Methylguanosine Diphosphate (m ⁷ GDP) Is Not Hydrolyzed but Strongly Bound by Decapping Scavenger (DcpS) Enzymes and Potently Inhibits Their Activity. <i>Biochemistry</i> , 2012, 51, 8003-8013.	1.2	32
42	A novel route for preparing 5â€² cap mimics and capped RNAs: phosphate-modified cap analogues obtained via click chemistry. <i>Chemical Science</i> , 2017, 8, 260-267.	3.7	32
43	Analysis of mononucleotides by tandem mass spectrometry: investigation of fragmentation pathways for phosphate- and ribose-modified nucleotide analogues. <i>Scientific Reports</i> , 2017, 7, 8931.	1.6	30
44	Upregulation of RNA cap methyltransferase RNMT drives ribosome biogenesis during T cell activation. <i>Nucleic Acids Research</i> , 2021, 49, 6722-6738.	6.5	29
45	SYNTHESIS AND BIOCHEMICAL PROPERTIES OF NOVEL mRNA 5â€² CAP ANALOGS RESISTANT TO ENZYMATIC HYDROLYSIS. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 615-621.	0.4	28
46	Ethynyl, 2-Propynyl, and 3-Butynyl C-Phosphonate Analogues of Nucleoside Di- and Triphosphates: Synthesis and Reactivity in CuAAC. <i>Organic Letters</i> , 2015, 17, 3062-3065.	2.4	28
47	eIF4E phosphorylation by MST1 reduces translation of a subset of mRNAs, but increases lncRNA translation. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2017, 1860, 761-772.	0.9	27
48	The synthesis of isopropylidene mRNA cap analogs modified with phosphorothioate moiety and their evaluation as promoters of mRNA translation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 3753-3758.	1.0	25
49	Five eIF4E isoforms from <i>Arabidopsis thaliana</i> are characterized by distinct features of cap analogs binding. <i>Biochemical and Biophysical Research Communications</i> , 2015, 456, 47-52.	1.0	25
50	Interferon Î³ (IFNÎ³) Signaling via Mechanistic Target of Rapamycin Complex 2 (mTORC2) and Regulatory Effects in the Generation of Type II Interferon Biological Responses. <i>Journal of Biological Chemistry</i> , 2016, 291, 2389-2396.	1.6	25
51	Synthesis and evaluation of fluorescent cap analogues for mRNA labelling. <i>RSC Advances</i> , 2013, 3, 20943.	1.7	24
52	Phosphoroselenoate Dinucleotides for Modification of mRNA 5â€² End. <i>ChemBioChem</i> , 2009, 10, 2469-2473.	1.3	23
53	Azidoâ€ Functionalized 5â€² Cap Analogues for the Preparation of Translationally Active mRNAs Suitable for Fluorescent Labeling in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15628-15632.	7.2	23
54	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. <i>Nucleic Acids Research</i> , 2017, 45, 8661-8675.	6.5	23

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55	Synthesis of biotin labelled cap analogue " incorporable into mRNA transcripts and promoting cap-dependent translation. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 8570.	1.5	22
56	Phosphate-modified analogues of m ⁷ GTP and m ⁷ Gppppm ⁷ G" Synthesis and biochemical properties. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 5369-5381.	1.4	21
57	Dual activity of certain HIT proteins: <i>A. thaliana</i> Hint4 and <i>C. elegans</i> DcpS act on adenosine 5'-phosphosulfate as hydrolases (forming AMP) and as phosphorylases (forming ADP). <i>FEBS Letters</i> , 2010, 584, 93-98.	1.3	20
58	Efficient and Rapid Synthesis of Nucleoside Diphosphate Sugars from Nucleoside Phosphorimidazolides. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 2147-2154.	1.2	20
59	Adenosine 5'-Tetraphosphate Is a Highly Potent Purinergic Endothelium-Derived Vasoconstrictor. <i>Circulation Research</i> , 2008, 103, 1100-1108.	2.0	19
60	Synthesis of nucleoside phosphosulfates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 3661-3664.	1.0	19
61	A fluorescent HTS assay for phosphohydrolases based on nucleoside 5'-fluorophosphates: its application in screening for inhibitors of mRNA decapping scavenger and PDE-I. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 4595-4604.	1.5	19
62	Identification and evaluation of potential SARS-CoV-2 antiviral agents targeting mRNA cap guanine N7-Methyltransferase. <i>Antiviral Research</i> , 2021, 193, 105142.	1.9	19
63	Amino-Functionalized 5'-Cap Analogs as Tools for Site-Specific Sequence-Independent Labeling of mRNA. <i>Bioconjugate Chemistry</i> , 2017, 28, 1978-1992.	1.8	18
64	Synthesis of Trifluoromethylated Purine Ribonucleotides and Their Evaluation as 19F NMR Probes. <i>Journal of Organic Chemistry</i> , 2020, 85, 3440-3453.	1.7	18
65	Tritium Secondary Kinetic Isotope Effect on Phenylalanine Ammonia-Lyase-Catalyzed Reaction. <i>Archives of Biochemistry and Biophysics</i> , 1999, 370, 216-221.	1.4	17
66	Synthesis of Novel mRNA 5'-Cap-Analogues: Dinucleoside P1, P3-Tri-, P1, P4-Tetra-, and P1, P5-Pentaphosphates. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 691-694.	0.4	17
67	Magnetic-Nanoparticle-Decorated Polypyrrole Microvessels: Toward Encapsulation of mRNA Cap Analogues. <i>Biomacromolecules</i> , 2013, 14, 1867-1876.	2.6	17
68	Cap analogs containing 6-thioguanosine " reagents for the synthesis of mRNAs selectively photo-crosslinkable with cap-binding biomolecules. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 4841-4847.	1.5	17
69	Nicotinamide-Containing Di- and Trinucleotides as Chemical Tools for Studies of NAD-Capped RNAs. <i>Organic Letters</i> , 2018, 20, 7650-7655.	2.4	17
70	A NOVEL APPROACH TO SOLID PHASE CHEMICAL SYNTHESIS OF OLIGONUCLEOTIDE mRNA CAP ANALOGS. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 601-605.	0.4	16
71	Structural Insights into the Interaction of Clinically Relevant Phosphorothioate mRNA Cap Analogs with Translation Initiation Factor 4E Reveal Stabilization via Electrostatic Thio-Effect. <i>ACS Chemical Biology</i> , 2021, 16, 334-343.	1.6	16
72	Analysis of decapping scavenger cap complex using modified cap analogs reveals molecular determinants for efficient cap binding. <i>FEBS Journal</i> , 2013, 280, 6508-6527.	2.2	15

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73	Plant nucleoside 5'-phosphoramidate hydrolase; simple purification from yellow lupin (<i>Lupinus</i>) Tj ETQq1 1 0.784314.rgBT/Overlock 10	0.3	15
74	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. <i>Rna</i> , 2009, 15, 1554-1564.	1.6	14
75	Structural requirements for <i>Caenorhabditis elegans</i> DcpS substrates based on fluorescence and HPLC enzyme kinetic studies. <i>FEBS Journal</i> , 2010, 277, 3003-3013.	2.2	14
76	5'-fluoro(di)phosphate-labeled oligonucleotides are versatile molecular probes for studying nucleic acid secondary structure and interactions by 19F NMR. <i>Nucleic Acids Research</i> , 2020, 48, 8209-8224.	6.5	14
77	Enzymatic Synthesis of [¹³ C]- and [¹⁴ C]-L-Phenyl-Alanine. <i>Isotopes in Environmental and Health Studies</i> , 1998, 34, 335-339.	0.5	13
78	Affinity resins containing enzymatically resistant mRNA cap analogs—a new tool for the analysis of cap-binding proteins. <i>Rna</i> , 2012, 18, 1421-1432.	1.6	12
79	Towards novel efficient and stable nuclear import signals: synthesis and properties of trimethylguanosine cap analogs modified within the 5',5'-triphosphate bridge. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9184-9199.	1.5	11
80	Synthesis of RNA 5'-Azides from 2'-O-Pivaloyloxymethyl-Protected RNAs and Their Reactivity in Azide-Alkyne Cycloaddition Reactions. <i>Organic Letters</i> , 2017, 19, 3624-3627.	2.4	11
81	Exploring the potential of phosphotriazole 5' mRNA cap analogues as efficient translation initiators. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 6741-6748.	1.5	11
82	Kinetic analysis of IFIT1 and IFIT5 interactions with different native and engineered RNAs and its consequences for designing mRNA-based therapeutics. <i>Rna</i> , 2020, 26, 58-68.	1.6	11
83	Novel N7-Arylmethyl Substituted Dinucleotide mRNA 5' cap Analogs: Synthesis and Evaluation as Modulators of Translation. <i>Pharmaceutics</i> , 2021, 13, 1941.	2.0	11
84	SYNTHESIS AND PROPERTIES OF mRNA CAP ANALOGS CONTAINING PHOSPHOROTHIOATE MOIETY IN 5',5'-TRIPHOSPHATE CHAIN. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 595-600.	0.4	10
85	Synthesis and evaluation of stability of m3G-CAP analogues in serum-supplemented medium and cytosolic extract. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 7921-7928.	1.4	10
86	Two-headed tetraphosphate cap analogs are inhibitors of the Dcp1/2 RNA decapping complex. <i>Rna</i> , 2016, 22, 518-529.	1.6	10
87	Acetylpyrene-labelled 7-methylguanine nucleotides: unusual fluorescence properties and application to decapping scavenger activity monitoring. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 3863-3868.	1.5	10
88	Fluorescent Turn-On Probes for the Development of Binding and Hydrolytic Activity Assays for mRNA Cap-Recognizing Proteins. <i>Chemistry - A European Journal</i> , 2019, 25, 6728-6740.	1.7	10
89	Enzymatic Assays to Explore Viral mRNA Capping Machinery. <i>ChemBioChem</i> , 2021, 22, 3236-3253.	1.3	10
90	Interaction Between Yeast Eukaryotic Initiation Factor eIF4E and mRNA 5' Cap Analogues Differs from That for Murine eIF4E. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 1711-1714.	0.4	9

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91	Methylene analogues of adenosine 5'-tetraphosphate. Their chemical synthesis and recognition by human and plant mononucleoside tetraphosphatases and dinucleoside tetraphosphatases. <i>FEBS Journal</i> , 2006, 273, 829-838.	2.2	9
92	Affinity of Dinucleotide Cap Analogues for Human Decapping Scavenger (hDcpS). <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 1349-1352.	0.4	9
93	Clickable trimethylguanosine cap analogs modified within the triphosphate bridge: synthesis, conjugation to RNA and susceptibility to degradation. <i>RSC Advances</i> , 2016, 6, 8317-8328.	1.7	9
94	Interaction of human decapping scavenger with 5' mRNA cap analogues: structural requirements for catalytic activity. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 285217.	0.7	8
95	Synthetic m3G-CAP attachment necessitates a minimum trinucleotide constituent to be recognised as a nuclear import signal. <i>RSC Advances</i> , 2016, 6, 51367-51373.	1.7	8
96	mRNAs biotinylated within the 5' cap and protected against decapping: new tools to capture RNA-protein complexes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20180167.	1.8	8
97	Structure of the poxvirus decapping enzyme D9 reveals its mechanism of cap recognition and catalysis. <i>Structure</i> , 2022, 30, 721-732.e4.	1.6	8
98	Enzymatic syntheses of carbon-14 labeled isotopomers of L-phenylalanine. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2001, 247, 371-374.	0.7	7
99	The first examples of mRNA cap analogs bearing boranophosphate modification. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 289-290.	0.3	7
100	Plant nucleoside 5'-phosphoramidate hydrolase; simple purification from yellow lupin (<i>Lupinus</i>) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 38	0.3	7
101	Synthesis of tritium labeled isotopomers of L-tyrosine. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2002, 45, 559-567.	0.5	6
102	NOVEL DINUCLEOSIDE 5',5'-TRIPHOSPHATE CAP ANALOGUES. SYNTHESIS AND AFFINITY FOR MURINE TRANSLATION FACTOR eIF4E. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 629-633.	0.4	6
103	SYNTHESIS AND ENZYMATIC CHARACTERIZATION OF METHYLENE ANALOGS OF ADENOSINE 5'-TETRAPHOSPHATE (P4A). <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 589-593.	0.4	6
104	Gold-decorated polymer vessel structures as carriers of mRNA cap analogs. <i>Polymer</i> , 2015, 57, 77-87.	1.8	6
105	Central Regulatory Role for SIN1 in Interferon $\hat{3}$ (IFN $\hat{3}$) Signaling and Generation of Biological Responses. <i>Journal of Biological Chemistry</i> , 2017, 292, 4743-4752.	1.6	6
106	Azido-functionalized 5' Cap Analogues for the Preparation of Translationally Active mRNAs Suitable for Fluorescent Labeling in Living Cells. <i>Angewandte Chemie</i> , 2017, 129, 15834-15838.	1.6	6
107	ExciTides: NTP-derived probes for monitoring pyrophosphatase activity based on excimer-to-monomer transitions. <i>Chemical Communications</i> , 2018, 54, 9773-9776.	2.2	6
108	N1-Propargylguanosine Modified mRNA Cap Analogs: Synthesis, Reactivity, and Applications to the Study of Cap-Binding Proteins. <i>Molecules</i> , 2019, 24, 1899.	1.7	6

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109	Solid-Phase Synthesis of RNA 5'-Azides and Their Application for Labeling, Ligation, and Cyclization Via Click Chemistry. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2020, 82, e112.	0.5	6
110	Direct High-Throughput Screening Assay for mRNA Cap Guanine-N7 Methyltransferase Activity. <i>Chemistry - A European Journal</i> , 2020, 26, 11266-11275.	1.7	6
111	Cellular delivery of dinucleotides by conjugation with small molecules: targeting translation initiation for anticancer applications. <i>Chemical Science</i> , 2021, 12, 10242-10251.	3.7	6
112	RNA Ligation for Mono and Dually Labeled RNAs. <i>Chemistry - A European Journal</i> , 2021, 27, 12190-12197.	1.7	6
113	Synthesis of tritium labeled [3R-3H]-, and [3S-3H]-L-phenylalanine. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2001, 44, 295-304.	0.5	5
114	mRNA Cap Modification through Carbamate Chemistry: Synthesis of Amino- and Carboxy-Functionalised Cap Analogues Suitable for Labelling and Bioconjugation. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 6153-6169.	1.2	5
115	Exploring tryptamine conjugates as pronucleotides of phosphate-modified 7-methylguanine nucleotides targeting cap-dependent translation. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115523.	1.4	5
116	Evaluation of carboxyfluorescein-labeled 7-methylguanine nucleotides as probes for studying cap-binding proteins by fluorescence anisotropy. <i>Scientific Reports</i> , 2021, 11, 7687.	1.6	5
117	Catalytic efficiency of divalent metal salts in dinucleoside 5',5'-triphosphate bond formation. , 2002, , .		5
118	Influence of the Length of the Phosphate Chain in mRNA 5' Cap Analogues on Their Interaction with Eukaryotic Initiation Factor 4E. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 1707-1710.	0.4	4
119	Solid-Supported Synthesis of 5'-mRNA CAP-4 from Trypanosomatids. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 1329-1333.	0.4	4
120	Ethylenediamine derivatives efficiently react with oxidized RNA 3' ends providing access to mono and dually labelled RNA probes for enzymatic assays and <i>in vivo</i> translation. <i>Nucleic Acids Research</i> , 2022, 50, e3-e3.	6.5	4
121	Introducing SuFNucs: Sulfamoyl-Fluoride-Functionalized Nucleosides That Undergo Sulfur Fluoride Exchange Reaction. <i>Organic Letters</i> , 2022, 24, 4977-4981.	2.4	4
122	Synthesis of ³ H and ¹³ C Labeled Mrna Cap Dinucleotides – Useful Tools for Nmr, Biochemical, and Biological Studies. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007, 26, 1315-1319.	0.4	3
123	Efficient Synthesis of Trifluoromethylated Purine Ribonucleosides and Ribonucleotides. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2020, 83, e118.	0.5	3
124	Fluorescence-Based Activity Screening Assay Reveals Small Molecule Inhibitors of Vaccinia Virus mRNA Decapping Enzyme D9. <i>ACS Chemical Biology</i> , 2022, 17, 1460-1471.	1.6	3
125	Chemically Modified Poly(A) Analogs Targeting PABP: Structure Activity Relationship and Translation Inhibitory Properties. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	3
126	Binding Studies of Eukaryotic Initiation Factor eIF4E with Novel mRNA Dinucleotide Cap Analogues. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 1703-1706.	0.4	2

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127	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
128	Bisphosphonate mRNA cap analog attached to Sepharose for affinity chromatography of decapping enzymes. Nucleic Acids Symposium Series, 2008, 52, 295-296.	0.3	2
129	Nucleotide-decorated AuNPs as probes for nucleotide-binding proteins. Scientific Reports, 2021, 11, 15741.	1.6	2
130	Synthesis and properties of boranophosphate mRNA cap analogues. , 2008, , .		2
131	Fluorinated Phosphoadenosine 5'-Phosphosulfate Analogues for Continuous Sulfotransferase Activity Monitoring and Inhibitor Screening by ¹⁹ F NMR Spectroscopy. ACS Chemical Biology, 2022, 17, 661-669.	1.6	2
132	Assignment of the Absolute Configuration of P-Chiral 5'-Mrna Cap Analogues Containing Phosphorothioate Moiety. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1301-1305.	0.4	1
133	Kinetics of C. Elegans DcpS Cap Hydrolysis Studied by Fluorescence Spectroscopy. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1211-1215.	0.4	1
134	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
135	Bisphosphonate modification in tetraphosphate 5' mRNA cap analogs – synthesis and biochemical properties. , 2008, , .		1
136	Substrate-Based Design of Cytosolic Nucleotidase IIIB Inhibitors and Structural Insights into Inhibition Mechanism. Pharmaceuticals, 2022, 15, 554.	1.7	1
137	m ⁷ GTP ^{AS} is a strong and stable inhibitor of cap-dependent translation. Nucleic Acids Symposium Series, 2008, 52, 291-292.	0.3	0
138	Synthesis and biochemical studies of tetraphosphate 5' mRNA cap analogs bearing bisphosphonate modification. Nucleic Acids Symposium Series, 2008, 52, 287-288.	0.3	0
139	Synthetic Capped mRNAs for Cap-Specific Photo-Cross-Linking Experiments. Methods in Molecular Biology, 2016, 1428, 31-43.	0.4	0
140	Decapping of mRNA containing the histone 3' stem loop requires recruitment of stem loop binding protein (SLBP). FASEB Journal, 2009, 23, .	0.2	0