Jean-Jacques Vasseur

List of Publications by Year
in descending order

226	6,774	71102 41	95266 68
papers	citations	h-index	g-index

254	254	254	6454
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reversible methylation of m6Am in the 5â€² cap controls mRNA stability. Nature, 2017, 541, 371-375.	27.8	797
2	FTO controls reversible m6Am RNA methylation during snRNA biogenesis. Nature Chemical Biology, 2019, 15, 340-347.	8.0	192
3	Microwave Assisted â€œClickâ€•Chemistry for the Synthesis of Multiple Labeled-Carbohydrate Oligonucleotides on Solid Support. Journal of Organic Chemistry, 2006, 71, 4700-4702.	3.2	188
4	Identification of the m6Am Methyltransferase PCIF1 Reveals the Location and Functions of m6Am in the Transcriptome. Molecular Cell, 2019, 75, 631-643.e8.	9.7	183
5	Recent developments in alkyne borylations. Tetrahedron, 2014, 70, 8431-8452.	1.9	172
6	DNA-Based Carbohydrate Biochips: A Platform for Surface Glyco-Engineering. Angewandte Chemie - International Edition, 2007, 46, 2398-2402.	13.8	138
7	Boron and nucleic acid chemistries: merging the best of both worlds. Chemical Society Reviews, 2013, 42, 5684.	38.1	112
8	Threeâ€Component Reaction Using the Bestmannâ€“Ohira Reagent: A Regioselective Synthesis of Phosphonyl Pyrazole Rings. Angewandte Chemie - International Edition, 2010, 49, 3196-3199.	13.8	109
9	Zika Virus Methyltransferase: Structure and Functions for Drug Design Perspectives. Journal of Virology, 2017, 91, .	3.4	109
10	La-related protein 1 (LARP1) repression of TOP mRNA translation is mediated through its cap-binding domain and controlled by an adjacent regulatory region. Nucleic Acids Research, 2018, 46, 1457-1469.	14.5	103
11	Oligonucleosides: synthesis of a novel methylhydroxylamine-linked nucleoside dimer and its incorporation into antisense sequences. Journal of the American Chemical Society, 1992, 114, 4006-4007.	13.7	102
12	Fucosylated Pentaerythrityl Phosphodiester Oligomers (PePOs):â€‰ Automated Synthesis of DNA-Based Glycoclusters and Binding to Pseudomonas aeruginosa Lectin (PA-IIL). Bioconjugate Chemistry, 2007, 18, 1637-1643.	3.6	96
13	Synthesis of Mannose and Galactose Oligonucleotide Conjugates by Bi-click chemistry. Journal of Organic Chemistry, 2009, 74, 1218-1222.	3.2	84
14	FTO-mediated cytoplasmic m6Am demethylation adjusts stem-like properties in colorectal cancer cell. Nature Communications, 2021, 12, 1716.	12.8	83
15	A Baseâ€Labile Group for 2â€²â€OH Protection of Ribonucleosides: A Major Challenge for RNA Synthesis. Chemistry - A European Journal, 2008, 14, 9135-9138.	3.3	78
16	New Strategies for Cyclization and Bicyclization of Oligonucleotides by Click Chemistry Assisted by Microwaves. Journal of Organic Chemistry, 2008, 73, 191-200.	3.2	76
17	DNA vs. Mirrorâ€Image DNA: A Universal Approach to Tune the Absolute Configuration in DNAâ€Based Asymmetric Catalysis. Angewandte Chemie - International Edition, 2013, 52, 11546-11549.	13.8	76
18	Cap-proximal nucleotides via differential eIF4E binding and alternative promoter usage mediate translational response to energy stress. ELife, 2017, 6, .	6.0	75

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19	Azide Solid Support for 3â€²-Conjugation of Oligonucleotides and Their Circularization by Click Chemistry. Journal of Organic Chemistry, 2009, 74, 6837-6842.	3.2	70
20	Design of Triazoleâ€Tethered Glycoclusters Exhibiting Three Different Spatial Arrangements and Comparative Study of their Affinities towards PAâ€IL and RCA 120 by Using a DNAâ€Based Glycoarray. ChemBioChem, 2009, 10, 1369-1378.	2.6	69
21	Oligonucleotide Mimics for Antisense Therapeutics:Â Solution Phase and Automated Solid-Support Synthesis of MMI Linked Oligomers. Journal of the American Chemical Society, 1996, 118, 255-256.	13.7	67
22	Molecular Basis for Nucleotide Conservation at the Ends of the Dengue Virus Genome. PLoS Pathogens, 2012, 8, e1002912.	4.7	66
23	Binding of the Methyl Donor S -Adenosyl- <scp>l</scp> -Methionine to Middle East Respiratory Syndrome Coronavirus 2â€²- O -Methyltransferase nsp16 Promotes Recruitment of the Allosteric Activator nsp10. Journal of Virology, 2017, 91, .	3.4	61
24	Amineâ^'Guanidine Switch: A Promising Approach to Improve DNA Binding and Antiproliferative Activities. Journal of Medicinal Chemistry, 2007, 50, 6465-6475.	6.4	57
25	Efficient Solid-Phase Chemical Synthesis of 5â€²-Triphosphates of DNA, RNA, and their Analogues. Organic Letters, 2010, 12, 2190-2193.	4.6	56
26	Synthesis of adenine dinucleosides SAM analogs as specific inhibitors of SARS-CoV nsp14 RNA cap guanine-N7-methyltransferase. European Journal of Medicinal Chemistry, 2020, 201, 112557.	5.5	56
27	Impact of the Guanidinium Group on Hybridization and Cellular Uptake of Cationic Oligonucleotides. ChemBioChem, 2006, 7, 684-692.	2.6	54
28	Chemical Modifications to Improve the Cellular Uptake of Oligonucleotides. Current Topics in Medicinal Chemistry, 2007, 7, 727-737.	2.1	53
29	mRNA Capping by Venezuelan Equine Encephalitis Virus nsP1: Functional Characterization and Implications for Antiviral Research. Journal of Virology, 2015, 89, 8292-8303.	3.4	52
30	Synthesis of a Library of Fucosylated Glycoclusters and Determination of their Binding toward Pseudomonas aeruginosa Lectin B (PA-IIL) Using a DNA-Based Carbohydrate Microarray. Bioconjugate Chemistry, 2012, 23, 1534-1547.	3.6	51
31	Design, Synthesis, and Binding Affinity Evaluation of Hoechst 33258 Derivatives for the Development of Sequence-Specific DNA-Based Asymmetric Catalysts. ACS Catalysis, 2016, 6, 3096-3105.	11.2	51
32	X-ray structure and activities of an essential Mononegavirales L-protein domain. Nature Communications, 2015, 6, 8749.	12.8	49
33	Dynamic and Programmable DNAâ€Templated Boronic Ester Formation. Angewandte Chemie - International Edition, 2011, 50, 4193-4196.	13.8	48
34	Straightforward synthesis of triazoloacyclonucleotide phosphonates as potential HCV inhibitors. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 7365-7368.	2.2	47
35	Regioselective Synthesis of 3â€Carboâ€5â€phosphonylpyrazoles through a Oneâ€Pot Claisenâ€“Schmidt/1,3â€Dipolar Cycloaddition/Oxidation Sequence. European Journal of Organic Chemistry, 2011, 2011, 3184-3190.	2.4	47
36	Synthesis of 5â€² cap-0 and cap-1 RNAs using solid-phase chemistry coupled with enzymatic methylation by human (guanine-N⁷)-methyl transferase. Rna, 2012, 18, 856-868.	3.5	47

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37	Photocleavable Protecting Groups as Nucleobase Protections Allowed the Solid-Phase Synthesis of Base-Sensitive SATE-Prooligonucleotides. Journal of Organic Chemistry, 1999, 64, 6319-6328.	3.2	45
38	Expanding the borononucleotide family: synthesis of borono-analogues of dCMP, dGMP and dAMP. Organic and Biomolecular Chemistry, 2009, 7, 4369.	2.8	45
39	Ecological catalysis and phytoextraction: Symbiosis for future. Applied Catalysis B: Environmental, 2014, 146, 279-288.	20.2	45
40	Oligonucleotide Carbohydrate-Centered Galactosyl Cluster Conjugates Synthesized by Click and Phosphoramidite Chemistries. Bioconjugate Chemistry, 2010, 21, 1520-1529.	3.6	43
41	Toward the identification of viral cap-methyltransferase inhibitors by fluorescence screening assay. Antiviral Research, 2017, 144, 330-339.	4.1	43
42	First Evaluation of Acyloxymethyl or Acylthiomethyl Groups as Biolabile 2â€˜-O-Protections of RNAâ€. Organic Letters, 2006, 8, 3869-3872.	4.6	42
43	DNA-directed immobilisation of glycomimetics for glycoarrays application: Comparison with covalent immobilisation, and development of an on-chip IC50 measurement assay. Biosensors and Bioelectronics, 2009, 24, 2515-2521.	10.1	42
44	Borononucleotides: synthesis, and formation of a new reversible boronate internucleosidic linkage. Chemical Communications, 2008, , 2352.	4.1	41
45	Oligonucleotide Sequential Bis-Conjugation via Clickâ”Oxime and Clickâ”Huisgen Procedures. Journal of Organic Chemistry, 2010, 75, 3927-3930.	3.2	39
46	The methyltransferase domain of the Sudan ebolavirus L protein specifically targets internal adenosines of RNA substrates, in addition to the cap structure. Nucleic Acids Research, 2018, 46, 7902-7912.	14.5	39
47	Combinatorial and Automated Synthesis of Phosphodiester Galactosyl Cluster on Solid Support by Click Chemistry Assisted by Microwaves. Journal of Organic Chemistry, 2008, 73, 6014-6017.	3.2	38
48	Synthesis and biological activity of some 4-substituted 1-[1-(2,3-dihydroxy-1-propoxy)methyl-1,2,3-triazol-(4 & 5)-ylmethyl]-1H-pyrazolo[3,4-d]pyrimidines. Il Farmaco, 2002, 57, 27-32.	0.9	36
49	Cationic phosphoramidate Â-oligonucleotides efficiently target single-stranded DNA and RNA and inhibit hepatitis C virus IRES-mediated translation. Nucleic Acids Research, 2003, 31, 5282-5290.	14.5	36
50	Bacillus subtilis RNA deprotection enzyme RppH recognizes guanosine in the second position of its substrates. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8858-8863.	7.1	36
51	Structure Binding Relationship of Galactosylated Glycoclusters toward Pseudomonas aeruginosa Lectin LecA Using a DNA-Based Carbohydrate Microarray. Bioconjugate Chemistry, 2014, 25, 379-392.	3.6	36
52	Fluorescent Thrombin Binding Aptamer-Tagged Nanoparticles for an Efficient and Reversible Control of Thrombin Activity. ACS Applied Materials & Interfaces, 2017, 9, 35574-35587.	8.0	36
53	Fluorescence Enhancement upon G-Quadruplex Folding: Synthesis, Structure, and Biophysical Characterization of a Dansyl/Cyclodextrin-Tagged Thrombin Binding Aptamer. Bioconjugate Chemistry, 2013, 24, 1917-1927.	3.6	35
54	Mannose-centered aromatic galactoclusters inhibit the biofilm formation of Pseudomonas aeruginosa. Organic and Biomolecular Chemistry, 2015, 13, 8433-8444.	2.8	35

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55	Modified internucleoside linkages for nuclease-resistant oligonucleotides. RSC Chemical Biology, 2021, 2, 94-150.	4.1	35
56	Use of inter-proton nuclear Overhauser effects to assign the nuclear magnetic resonance spectra of oligodeoxynucleotide and hybrid duplexes in aqueous solution. FEBS Journal, 1983, 135, 307-314.	0.2	34
57	Synthesis of Homo- and Heterofunctionalized Glycoclusters and Binding to Pseudomonas aeruginosa Lectins PA-IL and PA-IIL. Journal of Organic Chemistry, 2012, 77, 7620-7626.	3.2	34
58	DNA-cellulose: an economical, fully recyclable and highly effective chiral biomaterial for asymmetric catalysis. Chemical Communications, 2015, 51, 6076-6079.	4.1	33
59	Characterization of specific noncovalent complexes between guanidinium derivatives and single-stranded DNA by MALDI. Journal of the American Society for Mass Spectrometry, 2006, 17, 283-291.	2.8	32
60	Selective fluorescence-based detection of dihydrouridine with boronic acids. Tetrahedron Letters, 2006, 47, 9253-9256.	1.4	31
61	Synthesis, thermal stability and reactivity towards 9-aminoellipticine of double-stranded oligonucleotides containing a true abasic site. Nucleic Acids Research, 1989, 17, 10307-10319.	14.5	30
62	Î´-Di-carboxybutyl phosphoramidate of 2â€²-deoxycytidine-5â€²-monophosphate as substrate for DNA polymerization by HIV-1 reverse transcriptase. Bioorganic and Medicinal Chemistry, 2009, 17, 7008-7014.	3.0	29
63	Toward the Rational Design of Galactosylated Glycoclusters That Target Pseudomonas aeruginosa Lectin A (LecA): Influence of Linker Arms That Lead to Lowâ€Nanomolar Multivalent Ligands. Chemistry - A European Journal, 2016, 22, 11785-11794.	3.3	29
64	Structure of the adduct formed between 3-aminocarbazole and the apurinic site oligonucleotide model d[Tp(Ap)pT]. Journal of Organic Chemistry, 1987, 52, 4994-4998.	3.2	28
65	Specific recognition of lectins by oligonucleotide glycoconjugates and sorting on a DNA microarray. Chemical Communications, 2009, , 6795.	4.1	28
66	Quantitative analysis (Kd and IC50) of glycoconjugates interactions with a bacterial lectin on a carbohydrate microarray with DNA Direct Immobilization (DDI). Biosensors and Bioelectronics, 2013, 40, 153-160.	10.1	28
67	The influence of the aromatic aglycon of galactoclusters on the binding of LecA: a case study with O-phenyl, S-phenyl, O-benzyl, S-benzyl, O-biphenyl and O-naphthyl aglycons. Organic and Biomolecular Chemistry, 2014, 12, 9166-9179.	2.8	28
68	An efficient reagent for 5â€²-azido oligonucleotide synthesis. Tetrahedron Letters, 2007, 48, 8795-8798.	1.4	27
69	NIS-promoted guanylation of amines. Tetrahedron Letters, 2009, 50, 1463-1465.	1.4	27
70	High-Yield Solution-Phase Synthesis of Di- and Trinucleotide Blocks Assisted by Polymer-Supported Reagents. Organic Letters, 2005, 7, 3485-3488.	4.6	26
71	Intermolecular radical Cî—¸C bond formation: Synthesis of a novel dinucleoside linker for non-anionic antisense oligonucleosides. Tetrahedron Letters, 1992, 33, 2645-2648.	1.4	25
72	Synthesis of new N-isobutyryl-l-cysteine/MEA conjugates: Evaluation of their free radical-scavenging activities and anti-HIV properties in human macrophages. Bioorganic Chemistry, 2008, 36, 133-140.	4.1	25

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73	Detection of short ssDNA and dsDNA by current-voltage measurements using conical nanopores coated with Al2O3 by atomic layer deposition. Mikrochimica Acta, 2016, 183, 1011-1017.	5.0	25
74	Stimuli-responsive oligonucleotides in prodrug-based approaches for gene silencing. Beilstein Journal of Organic Chemistry, 2018, 14, 436-469.	2.2	25
75	Use of Allylic Protecting Groups for the Synthesis of Base-Sensitive Prooligonucleotides. European Journal of Organic Chemistry, 2002, 2002, 49-56.	2.4	24
76	DNA glycoclusters and DNA-based carbohydrate microarrays: From design to applications. RSC Advances, 2012, 2, 12043.	3.6	24
77	Importance of topology for glycocluster binding to Pseudomonas aeruginosa and Burkholderia ambifaria bacterial lectins. Organic and Biomolecular Chemistry, 2015, 13, 11244-11254.	2.8	24
78	A rational quest for selectivity through precise ligand-positioning in tandem DNA-catalysed Friedelâ€“Crafts alkylation/asymmetric protonation. Chemical Science, 2019, 10, 2875-2881.	7.4	24
79	Potent Inhibition of SARS-CoV-2 nsp14 N7-Methyltransferase by Sulfonamide-Based Bisubstrate Analogues. Journal of Medicinal Chemistry, 2022, 65, 6231-6249.	6.4	24
80	Boronic acid-based fluorescent receptors for selective recognition of thymine glycol. Tetrahedron Letters, 2008, 49, 6075-6078.	1.4	23
81	Synthesis and Preliminary Evaluation of pro-RNA 2â€²-O-Masked with Biolabile Pivaloyloxymethyl Groups in an RNA Interference Assay. Journal of Organic Chemistry, 2011, 76, 5719-5731.	3.2	23
82	DNAâ€Templated [2+2] Photocycloaddition: A Straightforward Entry into the Aplysinopsin Family of Natural Products. Angewandte Chemie - International Edition, 2018, 57, 11786-11791.	13.8	23
83	Fine-tuning the properties of the thrombin binding aptamer through cyclization: Effect of the 5â€²-3â€² connecting linker on the aptamer stability and anticoagulant activity. Bioorganic Chemistry, 2020, 94, 103379.	4.1	23
84	Design, Synthesis and Characterization of Cyclic NU172 Analogues: A Biophysical and Biological Insight. International Journal of Molecular Sciences, 2020, 21, 3860.	4.1	23
85	Multiplexed binding determination of seven glycoconjugates for Pseudomonas aeruginosa Lectin I (PA-IL) using a DNA-based carbohydrate microarray. Chemical Communications, 2011, 47, 8826.	4.1	22
86	Bisâ€•and Trisâ€Alkyne Phosphoramidites for Multiple 5â€²â€Labeling of Oligonucleotides by Click Chemistry. European Journal of Organic Chemistry, 2012, 2012, 1851-1856.	2.4	22
87	Expanding biohybrid-mediated asymmetric catalysis into the realm of RNA. Chemical Communications, 2016, 52, 8604-8607.	4.1	22
88	Design and Synthesis of Galactosylated Bifurcated Ligands with Nanomolar Affinity for Lectin LecA from Pseudomonas aeruginosa. ChemBioChem, 2017, 18, 1036-1047.	2.6	22
89	The anti-adhesive effect of glycoclusters onPseudomonas aeruginosabacteria adhesion to epithelial cells studied by AFM single cell force spectroscopy. Nanoscale, 2018, 10, 12771-12778.	5.6	22
90	Stability Is Not Everything: The Case of the Cyclisation of a Thrombinâ€Binding Aptamer. ChemBioChem, 2019, 20, 1789-1794.	2.6	22

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91	Assessment of new 2â€²-O-acetalester protecting groups for regular RNA synthesis and original 2â€²-modified proRNA. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 4046-4049.	2.2	21
92	pH-controlled DNA- and RNA-templated assembly of short oligomers. Chemical Science, 2015, 6, 542-547.	7.4	21
93	Efficient guanidination of the phosphate linkage towards cationic phosphoramidate oligonucleotides. Tetrahedron Letters, 2003, 44, 6579-6582.	1.4	20
94	Electrochemical detection of nucleic acids using pentaferrocenyl phosphoramidate Î±-oligonucleotides. New Journal of Chemistry, 2011, 35, 893.	2.8	20
95	Synthesis of Monoconjugated and Multiply Conjugated Oligonucleotides by â€œClick Thiolâ€• Thiolâ€Michaelâ€Type Additions and by Combination with CuAAC â€œClick Huisgenâ€• European Journal of Organic Chemistry, 2013, 2013, 465-473.	2.4	20
96	Improved Performance of DNA Microarray Multiplex Hybridization Using Probes Anchored at Several Points by Thiolâ€“Ene or Thiolâ€“Yne Coupling Chemistry. Bioconjugate Chemistry, 2017, 28, 496-506.	3.6	20
97	Machine Learning to Improve the Sensing of Biomolecules by Conical Track-Etched Nanopore. Biosensors, 2020, 10, 140.	4.7	20
98	An easy access of 2â€²,3â€²-dideoxy-3â€²-Î±-C-formyl-adenosine and -guanosine analogs via stereoselective Cî—¸C bond forming radical reaction. Tetrahedron Letters, 1994, 35, 4697-4700.	1.4	19
99	Matrix-assisted laser desorption/ionization mass spectrometric analysis of polysulfated-derived oligosaccharides using pyrenemethylguanidine. Journal of the American Society for Mass Spectrometry, 2009, 20, 131-137.	2.8	19
100	Solidâ€Phase Chemical Synthesis of 5â€²â€Triphosphate DNA, RNA, and Chemically Modified Oligonucleotides. Current Protocols in Nucleic Acid Chemistry, 2012, 50, Unit1.28.	0.5	19
101	Development of Innovative and Versatile Polythiol Probes for Use on ELOSA or Electrochemical Biosensors: Application in Hepatitis C Virus Genotyping. Analytical Chemistry, 2013, 85, 9204-9212.	6.5	19
102	Bis-benzoxaboroles: Design, Synthesis, and Biological Evaluation as Carbonic Anhydrase Inhibitors. ACS Medicinal Chemistry Letters, 2019, 10, 1205-1210.	2.8	19
103	A versatile reagent for the synthesis of 5â€²-phosphorylated, 5â€²-thiophosphorylated or 5â€²-phosphoramidate-conjugated oligonucleotides. Tetrahedron Letters, 2006, 47, 8867-8871.	1.4	18
104	Synthesis of branched-phosphodiester and mannose-centered fucosylated glycoclusters and their binding studies with Burkholderia ambifaria lectin (BambL). RSC Advances, 2013, 3, 19515.	3.6	18
105	Polarity of annealing and structural analysis of the RNase H resistant .alpha.-5'-d[TACACA]:.beta.-5'-r[AUGUGU] hybrid determined by high-field proton, carbon-13, and phosphorus-31 NMR analysis. Biochemistry, 1990, 29, 10329-10341.	2.5	17
106	Highly Stable DNA Triplexes Formed with Cationic Phosphoramidate Pyrimidine Î±-Oligonucleotides. ChemBioChem, 2005, 6, 1254-1262.	2.6	17
107	Universal Solid Supports for the Synthesis of Oligonucleotides via a Transesterification ofH-phosphonate Diester Linkage. Journal of Organic Chemistry, 2005, 70, 9198-9206.	3.2	17
108	Conformational and Chiral Selection of Oligonucleotides. Chemistry and Biodiversity, 2007, 4, 803-817.	2.1	17

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109	5â€²-Bis-conjugation of Oligonucleotides by Amidative Oxidation and Click Chemistry. Journal of Organic Chemistry, 2010, 75, 6689-6692.	3.2	17
110	From Anionic to Cationic Î±â€Anomeric Oligodeoxynucleotides. Chemistry and Biodiversity, 2010, 7, 494-535.	2.1	17
111	Synthesis of Galactoclusters by Metalâ€Free Thiol â€œClick Chemistryâ€•and Their Binding Affinities for Pseudomonas aeruginosa Lectin LecA. European Journal of Organic Chemistry, 2014, 2014, 7621-7630.	2.4	17
112	Synthesis and incorporation of methyleneoxy(methylimino) linked thymidine dimer into antisense oligonucleosides. Bioorganic and Medicinal Chemistry Letters, 1992, 2, 1479-1482.	2.2	16
113	Kinetics study of the biotransformation of an oligonucleotide prodrug in cells extract by matrix-assisted laser desorptionâ€“ionization time-of-flight mass spectrometry. Biomedical Applications, 2001, 753, 123-130.	1.7	16
114	DNA directed immobilization glycocluster array: applications and perspectives. Current Opinion in Chemical Biology, 2014, 18, 46-54.	6.1	16
115	RNase H-Assisted Imaging of Peroxynitrite in Living Cells with 5â€²-Boronic Acid Modified DNA. ACS Sensors, 2016, 1, 970-974.	7.8	16
116	Conjugation of Doxorubicin to siRNA Through Disulfide-based Self-immolative Linkers. Molecules, 2020, 25, 2714.	3.8	16
117	Solution-Phase Synthesis of Phosphorothioate Oligonucleotides Using a Solid-Supported Acyl Chloride withH-Phosphonate Chemistry. European Journal of Organic Chemistry, 2006, 2006, 436-448.	2.4	15
118	Metallophyte wastes and polymetallic catalysis: a promising combination in green chemistry. The illustrative synthesis of 5â€²-capped RNA. RSC Advances, 2013, 3, 5204.	3.6	15
119	DNA-templated borononucleic acid self assembly: a study of minimal complexity. RSC Advances, 2015, 5, 105587-105591.	3.6	15
120	A versatile post-synthetic method on a solid support for the synthesis of RNA containing reduction-responsive modifications. Organic and Biomolecular Chemistry, 2016, 14, 7010-7017.	2.8	15
121	Dramatic effect of the anomeric configuration on the thermal stability of duplex formed between novel dodecathymidine phosphoramidate (PNH2) and complementary DNA and RNA strands. Tetrahedron Letters, 1996, 37, 5869-5872.	1.4	14
122	Toward high yield synthesis of peptideâ€“oligonucleotide chimera through a disulfide bridge: A simplified method for oligonucleotide activation. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 5084-5087.	2.2	14
123	Heteroâ€Click Conjugation of Oligonucleotides with Glycosides Using Bifunctional Phosphoramidites. European Journal of Organic Chemistry, 2015, 2015, 2921-2927.	2.4	14
124	RNA-based boronate internucleosidic linkages: an entry into reversible templated ligation and loop formation. Organic and Biomolecular Chemistry, 2018, 16, 8824-8830.	2.8	14
125	First insights into the structural features of Ebola virus methyltransferase activities. Nucleic Acids Research, 2021, 49, 1737-1748.	14.5	14
126	2-Amino-Î±-2â€²-deoxyadenosine increased duplex stability of methoxyethylphosphoramidate Î±-Oligodeoxynucleotides with RNA target. Bioorganic and Medicinal Chemistry Letters, 2002, 12, 1435-1438.	2.2	13

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127	3â€²-Deoxy Phosphoramidate Dinucleosides as Improved Inhibitors of Hepatitis C Virus Subgenomic Replicon and NS5B Polymerase Activity. Journal of Medicinal Chemistry, 2010, 53, 6608-6617.	6.4	13
128	Î±,Î²â€Unsaturated 2â€Acylâ€Imidazoles in Asymmetric Biohybrid Catalysis. ChemCatChem, 2019, 11, 5686-5704.	3.7	13
129	H-Phosphonate oligonucleotides from phosphoramidite chemistry. Tetrahedron Letters, 2004, 45, 3745-3748.	1.4	12
130	Lewis acid deprotection of silyl-protected oligonucleotides and base-sensitive oligonucleotide analogues. Tetrahedron Letters, 2004, 45, 6287-6290.	1.4	12
131	Phosphoramidate Dinucleosides as Hepatitis C Virus Polymerase Inhibitors. Journal of Medicinal Chemistry, 2008, 51, 5745-5757.	6.4	12
132	Measurement of Enzymatic Activity and Specificity of Human and Avian Influenza Neuraminidases from Whole Virus by Glycoarray and MALDIâ€TOF Mass Spectrometry. ChemBioChem, 2011, 12, 2071-2080.	2.6	12
133	Effects of the Surface Densities of Glycoclusters on the Determination of Their IC₅₀ and K_d Value Determination by Using a Microarray. ChemBioChem, 2015, 16, 2329-2336.	2.6	12
134	An Entry of the Chemoselective Sulfo-Click Reaction into the Sphere of Nucleic Acids. Organic Letters, 2020, 22, 1914-1918.	4.6	12
135	The C-Terminal Domain of the Sudan Ebolavirus L Protein Is Essential for RNA Binding and Methylation. Journal of Virology, 2020, 94, .	3.4	12
136	Analysis of solid-supported oligonucleotides by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. , 2000, 14, 234-242.		11
137	FTIR and UV Spectroscopy Studies of Triplex Formation Between Î±-Oligonucleotides with Non-Ionic Phoshoramidate Linkages and DNA Targets. Journal of Biomolecular Structure and Dynamics, 2003, 21, 435-445.	3.5	11
138	Chemical Synthesis of RNA with Baseâ€Labile 2â€²â€•O â€(Pivaloyloxymethyl)â€Protected Ribonucleoside Phosphoramidites. Current Protocols in Nucleic Acid Chemistry, 2010, 43, Unit3.19.	0.5	11
139	Direct Synthesis of Partially Modified 2â€²â€Oâ€Pivaloyloxymethyl RNAs by a Baseâ€Labile Protecting Group Strategy and their Potential for Prodrugâ€Based Geneâ€Silencing Applications. ChemBioChem, 2014, 15, 2674-2679.	2.6	11
140	Efficient one-pot, three-component procedure to prepare new Î±-aminophosphonate and phosphonic acid acyclic nucleosides. Nucleosides, Nucleotides and Nucleic Acids, 2021, 40, 43-67.	1.1	11
141	Folding of phosphodiester-linked donorâ€“acceptor oligomers into supramolecular nanotubes in water. Chemical Communications, 2021, 57, 4130-4133.	4.1	11
142	The methyltransferase domain of the Respiratory Syncytial Virus L protein catalyzes cap N7 and 2â€™-O-methylation. PLoS Pathogens, 2021, 17, e1009562.	4.7	11
143	Charge-Transfer Interactions Stabilize G-Quadruplex-Forming Thrombin Binding Aptamers and Can Improve Their Anticoagulant Activity. International Journal of Molecular Sciences, 2021, 22, 9510.	4.1	11
144	Applications of the Reversible Boronic Acids/Boronate Switch to Nucleic Acids. Chemical Record, 2022, 22, .	5.8	11

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145	Convenient synthesis of N2-isobutyryl-2â€²-O-methyl guanosine by efficient alkylation of O6-trimethylsilylethyl-3â€²,5â€²-di-tert-butylsilanediyl guanosine. Tetrahedron, 2007, 63, 11174-11178.	1.9	10
146	Synthesis and structural characterization of monomeric and dimeric peptide nucleic acids prepared by using microwave-promoted multicomponent reactions. Organic and Biomolecular Chemistry, 2015, 13, 11052-11071.	2.8	10
147	DNAâ€Based Asymmetric Inverse Electronâ€Demand Heteroâ€Dielsâ€“Alder. Chemistry - A European Journal, 2020, 26, 3519-3523.	3.3	10
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