

Jyoti Chattopadhyaya

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#	Paper	IF	Citations
195	A large-scale chemical modification screen identifies design rules to generate siRNAs with high activity, high stability and low toxicity. <i>Nucleic Acids Research</i> , 2009 , 37, 2867-81	20.1	273
194	How do the gauche and anomeric effects drive the pseudorotational equilibrium of the pentofuranose moiety of nucleosides?. <i>Journal of the American Chemical Society</i> , 1993 , 115, 9734-9746	16.4	176
193	A screen of chemical modifications identifies position-specific modification by UNA to most potently reduce siRNA off-target effects. <i>Nucleic Acids Research</i> , 2010 , 38, 5761-73	20.1	139
192	Structure and toxicity of a peptide hepatotoxin from the cyanobacterium <i>Oscillatoria agardhii</i> . <i>Toxicon</i> , 1989 , 27, 1021-34	2.8	137
191	A New Generalized Karplus-Type Equation Relating Vicinal Proton-Fluorine Coupling Constants to $H-C-F$ Torsion Angles. <i>Journal of Organic Chemistry</i> , 1998 , 63, 4967-4984	4.2	127
190	Allele-selective inhibition of mutant huntingtin expression with antisense oligonucleotides targeting the expanded CAG repeat. <i>Biochemistry</i> , 2010 , 49, 10166-78	3.2	116
189	Design, synthesis and biological evaluation of novel triazole, urea and thiourea derivatives of quinoline against <i>Mycobacterium tuberculosis</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 4681-92	3.4	110
188	A critical survey of the structure-function of the antisense oligo/RNA heteroduplex as substrate for RNase H. <i>Journal of Proteomics</i> , 2001 , 48, 189-208		99
187	Novel quinoline and naphthalene derivatives as potent antimycobacterial agents. <i>European Journal of Medicinal Chemistry</i> , 2010 , 45, 1854-67	6.8	92
186	Inhibition of the reverse transcriptase from HIV by 3'-azido-3'-deoxythymidine triphosphate and its threo analogue. <i>Antiviral Research</i> , 1987 , 7, 139-49	10.8	87
185	Design, synthesis, biological evaluation and molecular modelling studies of novel quinoline derivatives against <i>Mycobacterium tuberculosis</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 2830-41	3.4	86
184	The pK(a)'s of 2'-hydroxyl group in nucleosides and nucleotides. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2893-4	16.4	84
183	Rapid and quantitative recovery of DNA fragments from gels by displacement electrophoresis (isotachopheresis). <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1984 , 782, 120-6		84
182	Five- and six-membered conformationally locked 2',4'-carbocyclic ribo-thymidines: synthesis, structure, and biochemical studies. <i>Journal of the American Chemical Society</i> , 2007 , 129, 8362-79	16.4	74
181	How Does the 2'-Hydroxy Group Drive the Pseudorotational Equilibrium in Nucleoside and Nucleotide by the Tuning of the 3'-Gauche Effect?. <i>Journal of the American Chemical Society</i> , 1994 , 116, 6558-6560	16.4	67
180	Some observations relating to phosphorylation methods in oligonucleotide synthesis. <i>Tetrahedron Letters</i> , 1979 , 20, 5059-5062	2	65
179	Measurement of nucleobase pKa values in model mononucleotides shows RNA-RNA duplexes to be more stable than DNA-DNA duplexes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 2862-9	16.4	64

178	How do the energetics of the stereoelectronic gauche and anomeric effects modulate the conformation of nucleos(t)ides?. <i>Pure and Applied Chemistry</i> , 1996 , 68, 2137-2144	2.1	64
177	Conformationally constrained 2'-N,4'-C-ethylene-bridged thymidine (aza-ENA-T): synthesis, structure, physical, and biochemical studies of aza-ENA-T-modified oligonucleotides. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15173-87	16.4	63
176	An analysis of the inhibition of replication of HIV and MuLV by some 3'-blocked pyrimidine analogs. <i>Biochemical Pharmacology</i> , 1989 , 38, 109-19	6	63
175	New syntheses of 2',3'-dideoxy-2',3'-di-substituted & -2'-mono-substituted uridines & adenosines by michael addition reactions. <i>Tetrahedron</i> , 1988 , 44, 6705-6722	2.4	61
174	Computational and NMR study of quaternary ammonium ion conformations in solution. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 4640-4647	3.6	58
173	Conformationally-constrained indeno[2,1-c]quinolines--a new class of anti-mycobacterial agents. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 2180-97	3.9	57
172	Quantitation of the Anomeric Effect in Adenosine and Guanosine by Comparison of the Thermodynamics of the Pseudorotational Equilibrium of the Pentofuranose Moiety in N- and C-Nucleosides. <i>Journal of the American Chemical Society</i> , 1994 , 116, 8033-8037	16.4	53
171	Synthesis of the DNA-[Ru(tpy)(dppz)(CH ₃ CN)](2+) conjugates and their photo cross-linking studies with the complementary DNA strand. <i>Journal of the American Chemical Society</i> , 2002 , 124, 13416-33	16.4	50
170	Synthesis of [Ru(phen)(2)dppz](2+)-tethered oligo-DNA and studies on the metallointercalation mode into the DNA duplex. <i>Journal of the American Chemical Society</i> , 2001 , 123, 3551-62	16.4	50
169	Conformation of two 4'-thio-2'-deoxynucleoside analogs studied by 5000-MHz proton NMR spectroscopy and x-ray crystallography.. <i>Journal of the American Chemical Society</i> , 1992 , 114, 9936-9943	16.4	50
168	2-(4-Tolylsulfonyl)ethoxymethyl (TEM)-a new 2'-OH protecting group for solid-supported RNA synthesis. <i>Organic and Biomolecular Chemistry</i> , 2007 , 5, 333-43	3.9	47
167	Michael addition reactions of ethene-3?-phenylselenone of uridine. New synthesis of 2?,3?-dideoxy-ribo-aziridino-, 2?,3?-dideoxy-2?, 3?-ribo-cyclopropyl- & 2,2?-O-anhydro-3?-deoxy-3?-amino uridine derivatives. <i>Tetrahedron</i> , 1989 , 45, 4507-4522	2.4	47
166	Modulation of pyrene fluorescence in DNA probes depends upon the nature of the conformationally restricted nucleotide. <i>Journal of Organic Chemistry</i> , 2008 , 73, 2829-42	4.2	45
165	Fine tuning of electrostatics around the internucleotidic phosphate through incorporation of modified 2',4'-carbocyclic-LNAs and -ENAs leads to significant modulation of antisense properties. <i>Journal of Organic Chemistry</i> , 2009 , 74, 118-34	4.2	43
164	Allele-selective inhibition of ataxin-3 (ATX3) expression by antisense oligomers and duplex RNAs. <i>Biological Chemistry</i> , 2011 , 392, 315-25	4.5	43
163	An electrochemical probe of DNA stacking in an antisense oligonucleotide containing a C3'-endo-locked sugar. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 3402-5	16.4	43
162	Synthesis of conformationally locked Carba-LNAs through intramolecular free-radical addition to C=N. Electrostatic and steric implication of the carba-LNA substituents in the modified oligos for nuclease and thermodynamic stabilities. <i>Journal of Organic Chemistry</i> , 2009 , 74, 6534-54	4.2	42
161	Synthesis and structure of novel conformationally constrained 1',2'-azetidine-fused bicyclic pyrimidine nucleosides: their incorporation into oligo-DNAs and thermal stability of the heteroduplexes. <i>Journal of Organic Chemistry</i> , 2006 , 71, 299-314	4.2	41

160	Structural properties of modified deoxyadenosine structures in solution. Impact of the gauche and anomeric effects on the furanose conformation. <i>Canadian Journal of Chemistry</i> , 1987 , 65, 2089-2094	0.9	40
159	Intramolecular free-radical cyclization reactions on pentose sugars for the synthesis of carba-LNA and carba-ENA and the application of their modified oligonucleotides as potential RNA targeted therapeutics. <i>Chemical Reviews</i> , 2012 , 112, 3808-32	68.1	39
158	Synthesis of 1 β ,2 β ,3 β ,4 β ,5 β ,5 β -2H6- β -D-ribo- and 1 β ,2 β ,3 β ,4 β ,5 β ,5 β -2H7- β -D-2 β -deoxyribo- nucleosides for selective suppression of proton resonances in partially-deuterated oligo-DNA, oligo-RNA and in 2,5A core (1H-NMR window). <i>Tetrahedron</i> , 1992 , 48, 9033-9072	2.4	39
157	Significant pKa perturbation of nucleobases is an intrinsic property of the sequence context in DNA and RNA. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8674-81	16.4	38
156	Synthesis of C-branched spermine tethered oligo-DNA and the thermal stability of the duplexes and triplexes. <i>Tetrahedron</i> , 1996 , 52, 12275-12290	2.4	37
155	New stereocontrolled synthesis of isomeric C-branched- β -D-nucleosides by intramolecular free-radical cyclization- opening reactions based on temporary silicon connection. <i>Tetrahedron</i> , 1992 , 48, 349-370	2.4	37
154	The effect of protecting groups of the nucleobase and the sugar moieties on the acidic hydrolysis of the glycosidic bond of 2-deoxyadenosine: a kinetic study. <i>Tetrahedron</i> , 1987 , 43, 4453-4461	2.4	37
153	Synthesis and antimycobacterial activity of prodrugs of indeno[2,1-c]quinoline derivatives. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 1306-24	6.8	36
152	Intramolecular cyclization-trapping of carbon radicals by olefins as means to functionalize 2 β - and 3 β -carbons in β -D-nucleosides. <i>Tetrahedron</i> , 1991 , 47, 2237-2254	2.4	36
151	Synthesis and structure of azole-fused indeno[2,1-c]quinolines and their anti-mycobacterial properties. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 5661-73	3.9	35
150	Synthesis, physicochemical and biochemical studies of 1',2'-oxetane constrained adenosine and guanosine modified oligonucleotides, and their comparison with those of the corresponding cytidine and thymidine analogues. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11484-99	16.4	35
149	Structural analysis of 2',3'-dideoxyinosine, 2',3'-dideoxyadenosine, 2',3'-dideoxyguanosine and 2',3'-dideoxycytidine by 500-MHz 1H-NMR spectroscopy and ab-initio molecular orbital calculations. <i>Journal of Proteomics</i> , 1992 , 25, 253-72		34
148	Structure of a hepatotoxic pentapeptide from the cyanobacterium <i>Nodularia spumigena</i> . <i>Toxicon</i> , 1990 , 28, 535-40	2.8	34
147	In vivo efficacy and off-target effects of locked nucleic acid (LNA) and unlocked nucleic acid (UNA) modified siRNA and small internally segmented interfering RNA (sisiRNA) in mice bearing human tumor xenografts. <i>Artificial DNA, PNA & XNA</i> , 2010 , 1, 36-44		33
146	Synthesis of new 2 β , 3 β -modified uridine derivatives from 2 β ,3 β -ene-2 β -phenylselenonyl uridine by Michael addition reactions. <i>Tetrahedron</i> , 1991 , 47, 3431-3450	2.4	33
145	Synthesis of new 2',3'-dideoxy-2',3'- β -fused-heterocyclic uridines, & some 2', 3'-ene-2'-substituted uridines from easily accessible 2',3'-ene-3'phenylselenonyl uridine. <i>Tetrahedron</i> , 1990 , 46, 3037-3060	2.4	33
144	Acidic hydrolysis of 6-substituted 9-(2-deoxy- β - pentofuranosyl) purines and their 9-(1-alkoxyethyl) counter-parts: kinetics and mechanism.1. <i>Tetrahedron</i> , 1987 , 43, 1133-1140	2.4	33
143	Chemical synthesis and molecular cloning of a STOP oligonucleotide encoding an UGA translation terminator in all three reading frames. <i>Gene</i> , 1983 , 24, 15-27	3.8	33

142	Antisense oligonucleotides with oxetane-constrained cytidine enhance heteroduplex stability, and elicit satisfactory RNase H response as well as showing improved resistance to both exo and endonucleases. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 81-92	3.9	32
141	Stereoisomeric selectivity of human deoxyribonucleoside kinases. <i>Biochemistry</i> , 1999 , 38, 16993-9	3.2	32
140	New antiprotozoal agents: their synthesis and biological evaluations. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 2750-8	2.9	31
139	2-(Trimethylsilyl)ethyl chloroformate: A convenient reagent for protection of hydroxyl function. <i>Tetrahedron Letters</i> , 1981 , 22, 969-972	2	31
138	3-N-Acyl Uridines: Preparation and Properties of a New Class of Uracil Protecting Group.. <i>Acta Chemica Scandinavica</i> , 1983 , 37b, 147-150		30
137	The synthesis and conformation of 2'- and 3'-hypermodified tricyclic nucleosides and their use in the synthesis of novel 2'- or 3'-isomeric 4(7)-substituted isoxazolidine-nucleosides. <i>Tetrahedron</i> , 1994 , 50, 4921-4936	2.4	29
136	How does the steric effect drive the sugar conformation in the 3'-C-branched nucleosides?. <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 1011-1014		28
135	Structural studies of anti-HIV 3'-Fluorothymidine & 3'-Azidothymidine by 500 MHz 1H-NMR spectroscopy & molecular mechanics (MM2) calculations. <i>Tetrahedron</i> , 1991 , 47, 7363-7376	2.4	28
134	Comparative structural studies of [3.1.0]-fused 2',3'-modified .beta.-D-nucleosides by x-ray crystallography, NMR spectroscopy, and molecular mechanics calculations. <i>Journal of Organic Chemistry</i> , 1991 , 56, 6884-6892	4.2	28
133	A Convergent Regiospecific Synthesis of the Lariat-Trinucleotides and A2'p 5'G and A2'p 5'G 3'p 5'C from A O4-2-Nitrophenyl) -Uridine Building Block. <i>Nucleosides & Nucleotides</i> , 1987 , 6, 209-226		28
132	Dipyrido[3,2-a:2',3'-c]phenazine-Tethered Oligo-DNA: Synthesis and Thermal Stability of Their DNA?DNA and DNA?RNA Duplexes and DNA?DNA?DNA Triplexes. <i>Helvetica Chimica Acta</i> , 1999 , 82, 2186-2200		27
131	Chemical and structural implications of 1',2'- versus 2',4'- conformational constraints in the sugar moiety of modified thymine nucleosides. <i>Journal of Organic Chemistry</i> , 2007 , 72, 4716-26	4.2	26
130	Regiospecific synthesis of 2'-deoxy-2',2' -dideuterio nucleosides. <i>Tetrahedron</i> , 1987 , 43, 2355-2368	2.4	26
129	Structure and reactivity of wyosine (gamma-nucleoside) and its derivatives. Chemical, kinetic and spectroscopic studies. <i>Tetrahedron</i> , 1988 , 44, 1273-1290	2.4	26
128	Free-radical ring closure to conformationally locked beta-carba-LNAs and synthesis of their oligos: nuclease stability, target RNA specificity, and elicitation of RNase H. <i>Journal of Organic Chemistry</i> , 2010 , 75, 6122-40	4.2	25
127	The pK(a) of the internucleotidic 2'-hydroxyl group in diribonucleoside (3'-->5') monophosphates. <i>Journal of Organic Chemistry</i> , 2003 , 68, 1906-10	4.2	25
126	Reparametrization of Karplus equation relating 3JC?C?O?P to torsion angle. <i>Tetrahedron Letters</i> , 1995 , 36, 1949-1952	2	25
125	Synthesis of 2'-deoxy-2'()-deuterio and 2'-deoxy-2'(r)-deuterio-beta-nucleosides. <i>Tetrahedron</i> , 1986 , 42, 5427-5441	2.4	25

124	A 270 mhz 1H-NMR study of two branched ribonucleotides A3'p5'u2'p5'g and A3'p5'u2'p5'g which are products of pre-mRNA processing (splicing) reactions. <i>Tetrahedron</i> , 1987 , 43, 947-958	2.4	25
123	The 2'-Hydroxyl Function Assisted Cleavage of the Internucleotide Phosphotriester Bond of a Ribonucleotide Under Acidic Conditions.. <i>Acta Chemica Scandinavica</i> , 1985 , 39b, 799-806		25
122	Synthesis and Conformation of 9-(3'-C-Methyl-beta-D-xylo-furanosyl)adenine and 3'-C-Methyladenosine, Two Sugar-Methylated Nucleoside Analogues.. <i>Acta Chemica Scandinavica</i> , 1989 , 43, 665-669		25
121	Synthesis of 2',4'-propylene-bridged (carba-ENA) thymidine and its analogues: the engineering of electrostatic and steric effects at the bottom of the minor groove for nuclease and thermodynamic stabilities and elicitation of RNase H. <i>Journal of Organic Chemistry</i> , 2010 , 75, 7112-28	4.2	24
120	The Strength of the Anomeric Effect in Adenosine, Guanosine, and in Their 2'-Deoxy Counterparts is Medium-Dependent. <i>Journal of Organic Chemistry</i> , 1997 , 62, 8800-8808	4.2	24
119	Oxetane modified, conformationally constrained, antisense oligodeoxyribonucleotides function efficiently as gene silencing molecules. <i>Nucleic Acids Research</i> , 2004 , 32, 5791-9	20.1	23
118	Synthesis of 2'- and 3'-spiro-isoxazolidine derivatives of thymidine & their conversions to 2',3'-dideoxy-2',3'-didehydro-3'-substituted nucleosides by radical promoted fragmentation.. <i>Tetrahedron</i> , 1993 , 49, 10133-10156	2.4	23
117	Intra- and intermolecular nucleophilic phosphorous - sulfur bond cleavage. The reaction of fluoride ion with O-aryl-O, S-dialkylphosphorothioates, & the degradation of phosphorothioate linkage in di-ribonucleotides by the vicinal 2'-hydroxyl group.. <i>Tetrahedron</i> , 1989 , 45, 7523-7544	2.4	23
116	An efficient synthesis of γ -nucleoside (wyosine) by regiospecific methylation of n4-desmethylwyosine using organozinc reagent. <i>Tetrahedron Letters</i> , 1987 , 28, 3275-3278	2	23
115	2'/3'-O-peptidyl adenosine as a general base catalyst of its own external peptidyl transfer: implications for the ribosome catalytic mechanism. <i>ChemBioChem</i> , 2005 , 6, 992-6	3.8	22
114	The solution conformation of a carbocyclic analog of the Dickerson-Drew dodecamer: comparison with its own X-ray structure and that of the NMR structure of the native counterpart. <i>Journal of Biomolecular Structure and Dynamics</i> , 1998 , 16, 547-68	3.6	22
113	Diastereospecific synthesis of 2'- or 3'-c-branched nucleosides through intramolecular free-radical capture by silicon-tethered acetylene. <i>Tetrahedron</i> , 1994 , 50, 5255-5272	2.4	21
112	The self-cleavage of lariat-RNA. <i>Tetrahedron Letters</i> , 1993 , 34, 3929-3932	2	21
111	The first example of sequence-specific non-uniformly ¹³ C5 labelled RNA: Synthesis of the 29mer HIV-1 TAR RNA with ¹³ C Relaxation Window. <i>Tetrahedron</i> , 1999 , 55, 6603-6622	2.4	20
110	Solution structure of lariat RNA by 500 MHz NMR spectroscopy and molecular dynamics studies in water. <i>Journal of Proteomics</i> , 1993 , 27, 229-59		20
109	Carba-LNA-5MeC/A/G/T modified oligos show nucleobase-specific modulation of 3'-exonuclease activity, thermodynamic stability, RNA selectivity, and RNase H elicitation: synthesis and biochemistry. <i>Journal of Organic Chemistry</i> , 2011 , 76, 4408-31	4.2	19
108	Synthesis of multiply labelled ribonucleosides for sequence-specific labelling of oligo-RNA. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2001 , 44, 763-783	1.9	19
107	A New stereospecific synthesis of [3.1.0]bicyclic cyclopropano analog of 2'3'-dideoxyuridine. <i>Tetrahedron</i> , 1990 , 46, 2587-2592	2.4	19

106	The 9-Fluorenylmethoxycarbonyl (Fmoc) Group for the Protection of Amino Functions of Cytidine, Adenosine, Guanosine and Their 2'-Deoxysugar Derivatives.. <i>Acta Chemica Scandinavica</i> , 1983 , 37b, 263-265		19
105	Design and divergent synthesis of aza nucleosides from a chiral imino sugar. <i>Journal of Organic Chemistry</i> , 2012 , 77, 4671-8	4.2	18
104	Double sugar and phosphate backbone-constrained nucleotides: synthesis, structure, stability, and their incorporation into oligodeoxynucleotides. <i>Journal of Organic Chemistry</i> , 2009 , 74, 3248-65	4.2	18
103	The tunable transmission of the aromatic character of the aglycone through the anomeric effect in C-nucleosides drives its own sugar conformation: A thermodynamic study. <i>Tetrahedron</i> , 1997 , 53, 6433-6464	2.4	18
102	The quantitation of the competing energetics of the stereoelectronic and steric effects of the 3'-OH and the aglycone in the β - versus α - by 1H-NMR. <i>Tetrahedron</i> , 1998 , 54, 1867-1900	2.4	18
101	Unusual radical 6-endo cyclization to carbocyclic-ENA and elucidation of its solution conformation by 600 MHz NMR and ab initio calculations. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 4627-33	3.9	18
100	Synthesis of furo[2,3-c]pyran- β -nucleosides by radical-cyclization & their conformational analysis by 500 mhz 1h-nmr spectroscopy. <i>Tetrahedron</i> , 1991 , 47, 9675-9690	2.4	18
99	New synthesis of 3'-substituted nucleosides. <i>Tetrahedron</i> , 1993 , 49, 5189-5202	2.4	18
98	Synthesis of heptameric lariat-RNA modelling the lariat introns of group II and nuclear pre-mRNA processing reaction (splicing). <i>Tetrahedron</i> , 1993 , 49, 649-668	2.4	18
97	The effect of metal ion complex formation on acidic depurination of 2'-deoxyadenosine and 2'-deoxyguanosine. <i>Tetrahedron</i> , 1989 , 45, 3945-3954	2.4	18
96	Synthesis of 5'-polyarene-tethered oligo-DNAs and the thermal stability and spectroscopic properties of their duplexes and triplexes. <i>Tetrahedron</i> , 1997 , 53, 10409-10432	2.4	17
95	High-quality oligo-RNA synthesis using the new 2'-O-TEM protecting group by selectively quenching the addition of p-tolyl vinyl sulphone to exocyclic amino functions. <i>Canadian Journal of Chemistry</i> , 2007 , 85, 293-301	0.9	17
94	The chemical nature of the 2'-substituent in the pentose-sugar dictates the pseudoaromatic character of the nucleobase (pKa) in DNA/RNA. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 1675-86	3.9	17
93	The synthesis of new 3'-bis--substituted-3'-deoxy-3'-dehydro-[3.3.0]-fused thymidines by intramolecular radical trapping by tethered acetylenes. <i>Tetrahedron</i> , 1994 , 50, 5273-5278	2.4	16
92	The synthesis of deuterionucleosides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000 , 19, 1615-56	1.4	15
91	Conformation-specific cleavage of antisense oligonucleotide-RNA duplexes by RNase H. <i>Perkin Transactions II RSC</i> , 2001 , 402-408		15
90	Assessment of competing 2'- π 5' versus 3'- π 5' stackings in solution structure of branched-RNA by 1H- & 31 P-NMR spectroscopy. <i>Tetrahedron</i> , 1992 , 48, 695-718	2.4	15
89	Lariat formation in splicing of pre-messenger RNA. Conformation and base stacking at the lariat branch point studied using 500-MHz 1H NMR and CD spectroscopy. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 2010 , 107, 663-667		14

- 88 Facile preparation of the oxetane-nucleosides. *Organic and Biomolecular Chemistry*, **2005**, 3, 4362-72 3.9 14
- 87 Oxetane modified antisense oligonucleotides promote RNase H cleavage of the complementary RNA strand in the hybrid duplex as efficiently as the native, and offer improved endonuclease resistance. *Perkin Transactions II RSC*, **2001**, 2074-2083 14
- 86 Synthesis of tetrameric cyclic branched-RNA (lariat) modelling the introns of group II and nuclear pre-mRNA processing reaction (splicing). *Tetrahedron*, **1991**, 47, 9659-9674 2.4 14
- 85 New synthesis of 2',3'-dideoxy-2',3'-didehydro-3'-substituted thymidines. *Tetrahedron*, **1993**, 49, 10061-10068 2.4 14
- 84 Synthesis of D-Psicose- and D-Fructofuranosyl Nucleosides.. *Acta Chemica Scandinavica*, **1984**, 38b, 367-373 14
- 83 The hydrogen bonding and hydration of 2'-OH in adenosine and adenosine 3'-ethyl phosphate. *Journal of Organic Chemistry*, **2002**, 67, 1852-65 4.2 13
- 82 The Transmission of the Electronic Character of Guanin-9-yl Drives the Sugar-Phosphate Backbone Torsions in Guanosine 3',5'-Bisphosphate. *Angewandte Chemie - International Edition*, **1999**, 38, 3645-3650 16.4 13
- 81 Inhibition of hepatitis B virus DNA polymerase by 3'-azido-3'-deoxythymidine triphosphate but not by its threo analog. *Journal of Medical Virology*, **1987**, 22, 231-6 19.7 13
- 80 Why Carba-LNA-modified oligonucleotides show considerably improved 3'-exonuclease stability compared to that of the LNA modified or the native counterparts: A Michaelis-Menten kinetic analysis. *Journal of Organic Chemistry*, **2010**, 75, 2341-9 4.2 12
- 79 The first experimental evidence for a larger medium-dependent flexibility of natural β -nucleosides compared to the α -nucleosides. *Tetrahedron*, **1997**, 53, 14043-14072 2.4 12
- 78 Synthesis of partially-deuterated 2'-deoxyribonucleoside blocks and their incorporation into an oligo-DNA for simplification of overcrowding and selective enhancement of resolution and sensitivity in the $^1\text{H-NMR}$ spectra. *Tetrahedron*, **1998**, 54, 14487-14514 2.4 12
- 77 The 3'-modified antisense oligos promote faster hydrolysis of the target RNA by RNase H than the natural counterpart. *Tetrahedron*, **2001**, 57, 593-606 2.4 12
- 76 The synthesis and reactivity of new 2-(N,N-diisopropylamino)-3-methylsulfonyl-1,3,2-benzoxazaphospholes. The utility of the 5-chloro analogue in the one-pot synthesis of oligothiophosphates: [ApsppA, ApspppA, ppp5'A2'ps5'A, m7GpsppA, Apspppp, Apspp] *Tetrahedron*, **1995**, 51, 2991-3014 2.4 12
- 75 A Convenient Preparation of N-Protected Nucleosides with the 2,2,2-Trichloro-t-butyloxycarbonyl (TCBOC) Group. Structural Assignment of N,N-bis-TCBOC Guanoside and Its 2'-Deoxy Analogue.. *Acta Chemica Scandinavica*, **1985**, 39b, 761-765 12
- 74 The synthesis of therapeutic locked nucleos(t)ides. *Current Opinion in Drug Discovery & Development*, **2009**, 12, 876-98 12
- 73 Total synthesis of 2',3',4',5',5'-(2)h(5)-ribonucleosides: the key building blocks for NMR structure elucidation of large RNA. *Journal of Organic Chemistry*, **2001**, 66, 6560-70 4.2 11
- 72 Diastereospecific chemical synthesis of ribonucleosides-3',4',5',5' -d4. *Tetrahedron*, **1999**, 55, 4747-4762 2.4 11
- 71 Synthesis of 2',3'-cis-fused pyrrolidino- β -D-nucleosides and their conformational analysis by 500 MHz $^1\text{H-NMR}$. *Tetrahedron*, **1993**, 49, 7525-7546 2.4 11

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