

Jyoti Chattopadhyaya

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

195
papers

5,142
citations

38
h-index

61
g-index

206
ext. papers

5,401
ext. citations

5.1
avg, IF

4.98
L-index

#	Paper	IF	Citations
195	Synthetic siRNA targeting human papillomavirus 16 E6: a perspective on in vitro nanotherapeutic approaches. <i>Nanomedicine</i> , 2018 , 13, 455-474	5.6	7
194	C2'-F Stereoconfiguration As a Puckering Switch for Base Stacking at the Dinucleotide Level. <i>Journal of Organic Chemistry</i> , 2018 , 83, 2473-2478	4.2	2
193	How RNase HI (Escherichia coli) promoted site-selective hydrolysis works on RNA in duplex with carba-LNA and LNA substituted antisense strands in an antisense strategy context?. <i>Molecular BioSystems</i> , 2017 , 13, 921-938		
192	Carbocyclic C-C Bond Formation: Intramolecular Radical Ring Closure to Yield Diastereomerically Pure (7'S-Me- or 7'R-Me-) Carba-LNA Nucleotide Analogs. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2017 , 69, 4.74.1-4.74.42	0.5	
191	A minute amount of s-puckered sugars is sufficient for (6-4) photoproduct formation at the dinucleotide level. <i>Journal of Organic Chemistry</i> , 2015 , 80, 615-9	4.2	5
190	Distal two-bond versus three-bond electronegative oxo-substituent effect controls the kinetics and thermodynamics of the conversion of a C-nitroso function to the corresponding oxime in the conformationally locked pentofuranose (bicyclo[2.2.1]heptane) system. <i>Journal of Organic Chemistry</i> , 2014 , 79, 7266-76	4.2	3
189	Diastereomer-Specific Repertoire of 7'R- or 7'S-Me-Carba-Locked Nucleic Acids (cLNAs) in Antisense Oligo/RNA Duplexes and Engineering of Physico-chemical and Enzymological Properties 2014 , 199-226		2
188	New antiprotozoal agents: their synthesis and biological evaluations. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 2750-8	2.9	31
187	Steric effects in the tuning of the diastereoselectivity of the intramolecular free-radical cyclization to an olefin as exemplified through the synthesis of a carba-pentofuranose scaffold. <i>Journal of Organic Chemistry</i> , 2012 , 77, 6855-72	4.2	6
186	New parasite inhibitors encompassing novel conformationally-locked 5'-acyl sulfamoyl adenosines. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 6121-9	3.9	3
185	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
184	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
183	Unusual strain-releasing nucleophilic rearrangement of a bicyclo[2.2.1]heptane system to a cyclohexenyl derivative. <i>Journal of Organic Chemistry</i> , 2012 , 77, 9747-55	4.2	1
182	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
181	G-Quadruplex DNA and its Ligands in Anticancer Therapy 2011 , 206-257		2
180	Labeling Oligonucleotides toward the Biomedical Probe 2011 , 292-334		1
179	Carba-LNA modified siRNAs targeting HIV-1 TAR region downregulate HIV-1 replication successfully with enhanced potency. <i>MedChemComm</i> , 2011 , 2, 206	5	10

178	The R-diastereomer of 6?-O-toluoyl-carba-LNA modification in the core region of siRNA leads to 24-times improved RNA silencing potency against the HIV-1 compared to its S-counterpart. <i>MedChemComm</i> , 2011 , 2, 1110	5	5
177	Locked Nucleic Acid Oligonucleotides toward Clinical Applications 2011 , 335-348		
176	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
175	Recent Advances in Carbocyclic Nucleosides: Synthesis and Biological Activity 2011 , 1-100		6
174	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
173	Molecular structure of the core-modified siRNA duplexes containing diastereomeric pair of [C6'(R)-OH]- versus [C6'(S)-OH]-carba-LNAs suggests a model for RNAi action. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2011 , 30, 815-25	1.4	
172	Molecular Modeling in Nucleic Acid-Targeted Drug Design 2011 , 258-271		
171	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
170	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
169	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
168	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. <i>Journal of Organic Chemistry</i> , 2010 , 75, 2341-9	4.2	12
167	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
166	Free-radical ring closure to conformationally locked Ψ -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
165	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
164	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
163	Novel quinoline and naphthalene derivatives as potent antimycobacterial agents. <i>European Journal of Medicinal Chemistry</i> , 2010 , 45, 1854-67	6.8	92
162	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
161	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

160	Design, synthesis, biological evaluation and molecular modelling studies of novel quinoline derivatives against Mycobacterium tuberculosis. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 2830-41	3.4	86
159	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
158	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
157	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
156	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
155	Synthesis and Structure of New Methylene-Bridged Hexopyranosyl Nucleoside (BHNA). <i>Heterocycles</i> , 2009 , 78, 1715	0.8	3
154	The synthesis of therapeutic locked nucleos(t)ides. <i>Current Opinion in Drug Discovery & Development</i> , 2009 , 12, 876-98		12
153	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
152	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
151	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
150	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
149	Conformationally-2',4'-locked Aza-ENA and carbocyclic ribo-thymidine. <i>Nucleic Acids Symposium Series</i> , 2007 , 69-70		
148	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
147	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
146	Synthesis of Conformationally Constrained 2'N,4'EC-Ethylene-Bridged Adenosine (aza-ENA-A). <i>Heterocycles</i> , 2007 , 73, 303	0.8	4
145	Interactions of drugs and an oligonucleotide with charged membranes analyzed by immobilized liposome chromatography. <i>Biomedical Chromatography</i> , 2006 , 20, 83-7	1.7	7
144	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
143	Non-identical electronic characters of the internucleotidic phosphates in RNA modulate the chemical reactivity of the phosphodiester bonds. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 928-41	3.9	7

142	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
141	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
140	Nucleic acid therapeutics for hematologic malignancies--theoretical considerations. <i>Annals of the New York Academy of Sciences</i> , 2006 , 1082, 124-36	6.5	1
139	Facile preparation of the oxetane-nucleosides. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 4362-72	3.9	14
138	The 5-Me of thymine (T) interaction with the neighboring nucleobases dictate the relative stability of isosequential DNA-RNA hybrid duplexes. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 3911-5	3.9	7
137	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
136	Electrostatic cross-modulation of the pseudoaromatic character in single-stranded RNA by nearest-neighbor interactions. <i>Pure and Applied Chemistry</i> , 2005 , 77, 291-311	2.1	9
135	Oxetane modified, conformationally constrained, antisense oligodeoxyribonucleotides function efficiently as gene silencing molecules. <i>Nucleic Acids Research</i> , 2004 , 32, 5791-9	20.1	23
134	Synthesis of [2'-2H1]-Ribonucleosides. <i>Helvetica Chimica Acta</i> , 2004 , 87, 742-757	2	3
133	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
132	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
131	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
130	Studies on the Stereoselective Synthesis of Deuterated D-Ribose Derivatives. <i>Helvetica Chimica Acta</i> , 2003 , 86, 633-643	2	4
129	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
128	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
127	Studies towards the large scale chemical synthesis of the precursors of ribonucleosides-3',4',5',5''-2H4 and -2',3',4',5',5''-2H5. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003 , 22, 2093-104	1.4	1
126	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
125	The hydrogen bonding and hydration of 2'-OH in adenosine and adenosine 3'-ethyl phosphate. <i>Journal of Organic Chemistry</i> , 2002 , 67, 1852-65	4.2	13

124	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
123	The RNase H affinity and cleavage of the target RNA in the antisenseRNA hybrid duplexes containing various 3'-tethered substituents in the antisense strand. <i>Perkin Transactions II RSC</i> , 2002 , 271-281		1
122	Kinetic analysis of the RNA cleavage of the conformationally-constrained oxetane-modified antisense-RNA hybrid duplex by RNase H. <i>Perkin Transactions II RSC</i> , 2002 , 976-984		9
121	Computational and NMR study of quaternary ammonium ion conformations in solution. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 4640-4647	3.6	58
120	Experimental evidences unequivocally prove the role of stereoelectronics as one of the major forces responsible for the self-assembly of DNA and RNA 2002 ,		3
119	The 3'-modified antisense oligos promote faster hydrolysis of the target RNA by RNase H than the natural counterpart. <i>Tetrahedron</i> , 2001 , 57, 593-606	2.4	12
118	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
117	Molecular modelling of 2'-OH mediated hydrogen bonding in ribonucleos(t)ides by NMR constrained AM1 and MMX calculations. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001 , 20, 1211-7	1.4	3
116	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
115	Conformation-specific cleavage of antisense oligonucleotide-RNA duplexes by RNase H. <i>Perkin Transactions II RSC</i> , 2001 , 402-408		15
114	Synthetic studies to improve the deuterium labelling in nucleosides for facilitating structural studies of large RNAs by high-field NMR spectroscopy. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001 , 20, 1333-7	1.4	3
113	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. <i>Perkin Transactions II RSC</i> , 2001 , 2074-2083		14
112	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
111	Total synthesis of 2',3',4',5',5'-(2)h(5)-ribonucleosides: the key building blocks for NMR structure elucidation of large RNA. <i>Journal of Organic Chemistry</i> , 2001 , 66, 6560-70	4.2	11
110	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
109	An energetic correlation of ab initio and NMR studies of the 3'-gauche effect in 3'-substituted thymidines. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001 , 20, 1229-33	1.4	1
108	The RNA molecular wire: the pH-dependent change of the electronic character of adenin-9-yl is transmitted to drive the sugar and phosphate torsions in adenosine 3', 5'-bisphosphate. <i>Journal of Physical Organic Chemistry</i> , 2000 , 13, 300-305	2.1	3
107	The synthesis of deuterionucleosides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000 , 19, 1615-56	1.4	15

106	The identification of the A-type RNA helices in a 55mer RNA by selective incorporation of deuterium-labelled nucleotide residues (Uppsala NMR-window concept). <i>Journal of Proteomics</i> , 2000 , 42, 153-78		3
105	Physico-Chemical Properties of 5'-Polyarene Tethered DNA-Conjugates, and Their Duplexes with Complementary RNA. <i>Nucleosides & Nucleotides</i> , 1999 , 18, 2785-2818		3
104	Selective cleavage of the O6-diphenylcarbonyl group from sugar-modified guanosines for incorporation into oligo-RNA. <i>Tetrahedron Letters</i> , 1999 , 40, 7283-7284	2	5
103	How kinetically accessible is an RNA target for hybridization with an antisense oligo? A lesson from an RNA target which is as small as a 20mer. <i>Tetrahedron</i> , 1999 , 55, 1505-1516	2.4	1
102	Diastereospecific chemical synthesis of ribonucleosides-3',4',5',5'-d4. <i>Tetrahedron</i> , 1999 , 55, 4747-4762	4	11
101	The first example of sequence-specific non-uniformly ¹³ C 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
100	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	2	27
99	Die Übertragung des elektronischen Charakters von Guanin-9-yl bewirkt die Torsionen des Zucker-Phosphat-Rückgrats in Guanosin-3',5'-bisphosphat. <i>Angewandte Chemie</i> , 1999 , 111, 3861-3866	3.6	3
98	The Transmission of the Electronic Character of Guanin-9-yl Drives the Sugar-Phosphate Backbone Torsions in Guanosine 3',5'-Bisphosphate. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 3645-3650	16.4	13
97	The enantioselectivity of the cellular deoxynucleoside kinases. <i>Nucleosides & Nucleotides</i> , 1999 , 18, 807-10		5
96	The change in the electronic character upon cisplatin binding to guanine nucleotide is transmitted to drive the conformation of the local sugar-phosphate backbone - quantitative study. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1999 , 2835-2843		8
95	Stereoisomeric selectivity of human deoxyribonucleoside kinases. <i>Biochemistry</i> , 1999 , 38, 16993-9	3.2	32
94	Partially-deuterated oligo-DNA reduces overcrowding, enhances resolution and sensitivity and provide improved NMR constraints for structure elucidation of oligo-DNA. <i>Tetrahedron</i> , 1998 , 54, 14515-14528	2.4	7
93	Pseudorotation of the sugar moiety in pyrimidine nucleosides occurs on the same time-scale as the overall tumbling: ² H NMR relaxation time study. <i>Magnetic Resonance in Chemistry</i> , 1998 , 36, 732-740	2.1	7
92	The quantitation of the competing energetics of the stereoelectronic and steric effects of the 3'-OH and the aglycone in the ¹³ C versus ¹ H-NMR. <i>Tetrahedron</i> , 1998 , 54, 1867-1900	2.4	18
91	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 H-NMR spectra. <i>Tetrahedron</i> , 1998 , 54, 14487-14514	2.4	12
90	The Electronic Nature of the Aglycone dictates the Drive of the Pseudorotational Equilibrium of the Pentofuranose Moiety in C-Nucleosides. <i>Nucleosides & Nucleotides</i> , 1998 , 17, 1605-1611		3
89	A New Generalized Karplus-Type Equation Relating Vicinal Proton-Fluorine Coupling Constants to ³ J _{HF} Torsion Angles. <i>Journal of Organic Chemistry</i> , 1998 , 63, 4967-4984	4.2	127

88	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
87	The Information Transmission from the Nucleobase Drives the Sugar-Phosphate Backbone Conformation in the Nucleotide Wire. <i>Nucleosides & Nucleotides</i> , 1998 , 17, 1589-1603		6
86	MCR III1. Multicomponent Reactions and Their Libraries, a New Type of Organic Chemistry of the Isocyanides and Phosphorus Derivatives.. <i>Nucleosides & Nucleotides</i> , 1997 , 16, 843-848		9
85	The Chemistry of C-Branched Spermine Tethered Oligo-DNAs and Their Properties in Forming Duplexes and Triplexes. <i>Nucleosides & Nucleotides</i> , 1997 , 16, 755-760		9
84	Determination of The Solution Conformation of A Non-Uniformly Deuterium Labelled (Uppsala Nmr-Window) 21Mer Rna Hairpin by Nmr Spectroscopy And Computational Methods.. <i>Nucleosides & Nucleotides</i> , 1997 , 16, 743-750		1
83	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
82	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, 6433-6484	2.4	18
81	The determination of the ionization constants of C-nucleosides. <i>Tetrahedron</i> , 1997 , 53, 6903-6906	2.4	7
80	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
79	The first experimental evidence for a larger medium-dependent flexibility of natural β -nucleosides compared to the α -nucleosides. <i>Tetrahedron</i> , 1997 , 53, 14043-14072	2.4	12
78	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
77	Comparative assessment of structure and reactivity of wyosine by chemistry, spectroscopy and ab initio calculations. <i>Tetrahedron</i> , 1996 , 52, 1597-1608	2.4	3
76	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
75	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]. <i>Tetrahedron</i> , 1995 , 51, 2991-3014	2.4	12
74	Reparametrization of Karplus equation relating $^3J_{C-O}P$ to torsion angle. <i>Tetrahedron Letters</i> , 1995 , 36, 1949-1952	2	25
73	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
72	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
71	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

70	Remarkable conformational change promoted by 3'-ethylphosphate at the branch-point of a tetrameric lariat-RNA dictates its self-cleavage reaction modelling some catalytic RNAs (ribozymes). <i>Tetrahedron</i> , 1994 , 50, 8711-8736	2.4	2
69	Synthesis and phosphorylating properties of 2-chloro-2,3-dihydro-3-(methylsulfonyl)-1,3,2-benzoxazaphosphole 2-oxide. Derivatives with chloro substituents on the benzene ring. <i>Liebigs Annalen Der Chemie</i> , 1994 , 1994, 269-275		3
68	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
67	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
66	Synthetic and conformational studies of branched and lariat RNAs. Modelling the lariat formed in the splicing reaction [A critical review]. <i>Journal of Chemical Sciences</i> , 1994 , 106, 1023-1050	1.8	
65	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
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