Jesper Wengel

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398 papers	15,554 citations	56 h-index	109 g-index
453 ext. papers	16,681 ext. citations	5.7 avg, IF	6.49 L-index

#	Paper	IF	Citations
398	LNA (Locked Nucleic Acids): Synthesis of the adenine, cytosine, guanine, 5-methylcytosine, thymine and uracil bicyclonucleoside monomers, oligomerisation, and unprecedented nucleic acid recognition. *Tetrahedron*, **1998**, 54, 3607-3630	2.4	854
397	Phytochemistry of the genus Piper. *Phytochemistry*, **1997**, 46, 597-673	4	583
396	LNA (locked nucleic acid): high-affinity targeting of complementary RNA and DNA. *Biochemistry*, **2004**, 43, 13233-41	3.2	555
395	LNA (locked nucleic acids): synthesis and high-affinity nucleic acid recognition. *Chemical Communications*, **1998**, 455-456	5.8	540
394	LNA: a versatile tool for therapeutics and genomics. *Trends in Biotechnology*, **2003**, 21, 74-81	15.1	531
393	Synthetic genetic polymers capable of heredity and evolution. *Science*, **2012**, 336, 341-4	33.3	515
392	Potent and nontoxic antisense oligonucleotides containing locked nucleic acids. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 5633-8	11.5	506
391	Synthesis of 3-C- and 4-C-Branched Oligodeoxynucleotides and the Development of Locked Nucleic Acid (LNA). *Accounts of Chemical Research*, **1999**, 32, 301-310	24.3	304
390	LNA (Locked Nucleic Acid): An RNA Mimic Forming Exceedingly Stable LNA:LNA Duplexes. *Journal of the American Chemical Society*, **1998**, 120, 13252-13253	16.4	276
389	A large-scale chemical modification screen identifies design rules to generate siRNAs with high activity, high stability and low toxicity. *Nucleic Acids Research*, **2009**, 37, 2867-81	20.1	273
388	Locked nucleic acid (LNA) recognition of RNA: NMR solution structures of LNA:RNA hybrids. *Journal of the American Chemical Society*, **2002**, 124, 5974-82	16.4	218
387	The effect of chemical modification and nanoparticle formulation on stability and biodistribution of siRNA in mice. *Molecular Therapy*, **2009**, 17, 1225-33	11.7	191
386	The first analogues of LNA (locked nucleic acids): phosphorothioate-LNA and 2'-thio-LNA. *Bioorganic and Medicinal Chemistry Letters*, **1998**, 8, 2219-22	2.9	191
385	Locked vs. unlocked nucleic acids (LNA vs. UNA): contrasting structures work towards common therapeutic goals. *Chemical Society Reviews*, **2011**, 40, 5680-9	58.5	189
384	Locked nucleic acids: promising nucleic acid analogs for therapeutic applications. *Chemistry and Biodiversity*, **2010**, 7, 536-42	2.5	189
383	The conformations of locked nucleic acids (LNA). *Journal of Molecular Recognition*, **2000**, 13, 44-53	2.6	163
382	Nucleic acid nanotechnology-towards Angstrom-scale engineering. *Organic and Biomolecular Chemistry*, **2004**, 2, 277-80	3.9	162

381	Locked nucleic acid: a potent nucleic acid analog in therapeutics and biotechnology. *Oligonucleotides*, **2004**, 14, 130-46		162
380	Improved silencing properties using small internally segmented interfering RNAs. *Nucleic Acids Research*, **2007**, 35, 5886-97	20.1	156
379	Structural studies of LNA:RNA duplexes by NMR: conformations and implications for RNase H activity. *Chemistry - A European Journal*, **2000**, 6, 2687-95	4.8	153
378	A screen of chemical modifications identifies position-specific modification by UNA to most potently reduce siRNA off-target effects. *Nucleic Acids Research*, **2010**, 38, 5761-73	20.1	139
377	Thermodynamic, counterion, and hydration effects for the incorporation of locked nucleic acid nucleotides into DNA duplexes. *Biochemistry*, **2006**, 45, 7347-55	3.2	139
376	Improved thrombin binding aptamer by incorporation of a single unlocked nucleic acid monomer. *Nucleic Acids Research*, **2011**, 39, 1155-64	20.1	130
375	alpha-L-ribo-configured locked nucleic acid (alpha-L-LNA): synthesis and properties. *Journal of the American Chemical Society*, **2002**, 124, 2164-76	16.4	129
374	Multilabeled pyrene-functionalized 2'-amino-LNA probes for nucleic acid detection in homogeneous fluorescence assays. *Journal of the American Chemical Society*, **2005**, 127, 13293-9	16.4	124
373	Synthesis of 2Amino-LNA: A Novel Conformationally Restricted High-Affinity Oligonucleotide Analogue with a Handle. *Journal of Organic Chemistry*, **1998**, 63, 10035-10039	4.2	121
372	Novel convenient syntheses of LNA [2.2.1]bicyclo nucleosides. *Tetrahedron Letters*, **1998**, 39, 4381-4384	2	119
371	Inhibition of HIV-1 Tat-dependent trans activation by steric block chimeric 2'-O-methyl/LNA oligoribonucleotides. *Biochemistry*, **2001**, 40, 14645-54	3.2	118
370	LNAzymes: incorporation of LNA-type monomers into DNAzymes markedly increases RNA cleavage. *Journal of the American Chemical Society*, **2002**, 124, 13682-3	16.4	109
369	Solution structure of an LNA hybridized to DNA: NMR study of the d(CT(L)GCT(L)T(L)CT(L)GC):d(GCAGAAGCAG) duplex containing four locked nucleotides. *Bioconjugate Chemistry*, **2000**, 11, 228-38	6.3	96
368	Locked nucleic acid as a novel class of therapeutic agents. *RNA Biology*, **2009**, 6, 321-3	4.8	94
367	UNA (unlocked nucleic acid): a flexible RNA mimic that allows engineering of nucleic acid duplex stability. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 5420-5	3.4	94
366	Polyphenols and alkaloids from piper species. *Phytochemistry*, **1998**, 49, 1069-1078	4	90
365	The Eight Stereoisomers of LNA (Locked Nucleic Acid): A Remarkable Family of Strong RNA Binding Molecules We acknowledge the Danish Natural Science Research Council, the Danish Technical Research Council, and Exiqon A/S for financial support. Ms Britta M. Dahl is thanked for oligonucleotide synthesis, Dr. Carl E. Olsen for MALDI-MS analysis, and Ms. Karen J. Jensen for recording CD spectra. *Angewandte Chemie - International Edition*, **2000**, 39, 1635-1639	16.4	87
364	Interstrand communication between 2'-N-(pyren-1-yl)methyl-2'-amino-LNA monomers in nucleic acid duplexes: directional control and signalling of full complementarity. *Chemical Communications*, **2004**, 1478-9	5.8	86

363	NMR studies of fully modified locked nucleic acid (LNA) hybrids: solution structure of an LNA:RNA hybrid and characterization of an LNA:DNA hybrid. *Bioconjugate Chemistry*, **2004**, 15, 449-57	6.3	86
362	Bicyclic nucleosides and conformational restriction of oligonucleotides. *Journal of the Chemical Society, Perkin Transactions 1*, **2000**, 3539-3554		85
361	Utilization of unlocked nucleic acid (UNA) to enhance siRNA performance in vitro and in vivo. *Molecular BioSystems*, **2010**, 6, 862-70		84
360	Synthesis and evaluation of oligodeoxynucleotides containing acyclic nucleosides: introduction of three novel analogues and a summary. *Bioorganic and Medicinal Chemistry*, **1995**, 3, 19-28	3.4	83
359	Functionalized LNA (locked nucleic acid): high-affinity hybridization of oligonucleotides containing N-acylated and N-alkylated 2'-amino-LNA monomers. *Chemical Communications*, **2003**, 2130-1	5.8	80
358	Stopped-flow kinetics of locked nucleic acid (LNA)-oligonucleotide duplex formation: studies of LNA-DNA and DNA-DNA interactions. *Biochemical Journal*, **2001**, 354, 481-484	3.8	76
357	Biological activity and biotechnological aspects of locked nucleic acids. *Advances in Genetics*, **2013**, 82, 47-107	3.3	75
356	Universality of LNA-mediated high-affinity nucleic acid recognition. *Chemical Communications*, **1998** , 1247-1248	5.8	75
355	Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part I: Dioxygenated 4-methyl coumarins as superb antioxidant and radical scavenging agents. *Bioorganic and Medicinal Chemistry*, **1998**, 6, 833-9	3.4	74
354	Polymerase chain reaction and transcription using locked nucleic acid nucleotide triphosphates. *Journal of the American Chemical Society*, **2008**, 130, 8124-5	16.4	73
353	Synthesis of Novel Bicyclo[2.2.1] Ribonucleosides: 2'-Amino- and 2'-Thio-LNA Monomeric Nucleosides. *Journal of Organic Chemistry*, **1998**, 63, 6078-6079	4.2	71
352	Sequence and pH effects of LNA-containing triple helix-forming oligonucleotides: physical chemistry, biochemistry, and modeling studies. *Biochemistry*, **2004**, 43, 4160-9	3.2	65
351	G-rich VEGF aptamer with locked and unlocked nucleic acid modifications exhibits a unique G-quadruplex fold. *Nucleic Acids Research*, **2013**, 41, 9524-36	20.1	64
350	The solution structure of a locked nucleic acid (LNA) hybridized to DNA. *Journal of Biomolecular Structure and Dynamics*, **1999**, 17, 175-91	3.6	63
349	Enzymatic incorporation of LNA nucleotides into DNA strands. *ChemBioChem*, **2007**, 8, 490-2	3.8	62
348	Stopped-flow kinetics of locked nucleic acid (LNA)-oligonucleotide duplex formation: studies of LNA-DNA and DNA-DNA interactions. *Biochemical Journal*, **2001**, 354, 481-4	3.8	60
347	Highly fluorescent conjugated pyrenes in nucleic acid probes: (phenylethynyl)pyrenecarbonyl-functionalized locked nucleic acids. *Chemistry - A European Journal*, **2008**, 14, 11010-26	4.8	58
346	Effective modulation of DNA duplex stability by reversible transition metal complex formation in the minor groove. *Journal of the American Chemical Society*, **2007**, 129, 9392-400	16.4	57

345	Locked nucleic acid (LNA): High affinity targeting of RNA for diagnostics and therapeutics. *Drug Discovery Today: Technologies*, **2005**, 2, 287-90	7.1	57
344	By-product formation in repetitive PCR amplification of DNA libraries during SELEX. *PLoS ONE*, **2014**, 9, e114693	3.7	57
343	Scaffolding along nucleic acid duplexes using 2'-amino-locked nucleic acids. *Accounts of Chemical Research*, **2014**, 47, 1768-77	24.3	56
342	A Novel Class of Oligonucleotide Analogues Containing 2-O,3-C-Linked [3.2.0]Bicycloarabinonucleoside Monomers: Synthesis, Thermal Affinity Studies, and Molecular Modeling. *Journal of the American Chemical Society*, **1998**, 120, 5458-5463	16.4	56
341	LNA stereoisomers: xylo-LNA (-D-xylo configured locked nucleic acid) and -L-LNA (-L-ribo configured locked nucleic acid). *Chemical Communications*, **1999**, 1395-1396	5.8	52
340	LNA (locked nucleic acid) and the diastereoisomeric alpha-L-LNA: conformational tuning and high-affinity recognition of DNA/RNA targets. *Nucleosides, Nucleotides and Nucleic Acids*, **2001**, 20, 389-96	1.4	51
339	Brightness through local constraint--LNA-enhanced FIT hybridization probes for in vivo ribonucleotide particle tracking. *Angewandte Chemie - International Edition*, **2014**, 53, 11370-5	16.4	50
338	Novel linear and branched oligodeoxynucleotide analogues containing 4?-c-(hydroxymethyl)thymidine. *Tetrahedron*, **1995**, 51, 10389-10402	2.4	50
337	Locked nucleic acid nucleoside triphosphates and polymerases: on the way towards evolution of LNA aptamers. *Molecular BioSystems*, **2009**, 5, 787-92		49
336	Efficient enzymatic synthesis of LNA-modified DNA duplexes using KOD DNA polymerase. *Organic and Biomolecular Chemistry*, **2009**, 7, 1404-9	3.9	48
335	Anti-invasive activity of alkaloids and polyphenolics in vitro. *Bioorganic and Medicinal Chemistry*, **1997**, 5, 1609-19	3.4	48
334	Pyrene-perylene as a FRET pair coupled to the N2'-functionality of 2'-amino-LNA. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 94-9	3.4	48
333	A Convenient Route to 3?-Amino-3?-deoxythymidine. *Synthesis*, **1989**, 1989, 384-387	2.9	48
332	Unlocked nucleic acid--an RNA modification with broad potential. *Organic and Biomolecular Chemistry*, **2011**, 9, 3591-7	3.9	47
331	Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part II: Mechanism-based inhibition of rat liver microsome-mediated aflatoxin B1-DNA binding by the candidate antimutagen 7,8-diacetoxy-4-methylcoumarin. *Bioorganic and Medicinal Chemistry*, **1998**, 6, 1895-904	3.4	47
330	Synthesis of 2?-O,3?-C-linked bicyclic nucleosides and bicyclic oligonucleotides. *Journal of the Chemical Society Perkin Transactions 1*, **1997**, 3423-3434		46
329	2'-N-(pyren-1-yl)acetyl-2'-amino-alpha-L-LNA: synthesis and detection of single nucleotide mismatches in DNA and RNA targets. *ChemBioChem*, **2007**, 8, 1122-5	3.8	46
328	Targeting of mixed sequence double-stranded DNA using pyrene-functionalized 2'-amino-alpha-l-LNA. *Chemical Communications*, **2005**, 4279-81	5.8	46

327	Naked siLNA-mediated gene silencing of lung bronchoepithelium EGFP expression after intravenous administration. *Oligonucleotides*, **2009**, 19, 163-8		45
326	Perylene attached to 2'-amino-LNA: synthesis, incorporation into oligonucleotides, and remarkable fluorescence properties in vitro and in cell culture. *Bioconjugate Chemistry*, **2008**, 19, 1995-2007	6.3	45
325	Efficient inhibition of HIV-1 expression by LNA modified antisense oligonucleotides and DNAzymes targeted to functionally selected binding sites. *Retrovirology*, **2007**, 4, 29	3.6	45
324	Synthesis of Novel 2',3'-Linked Bicyclic Thymine Ribonucleosides. *Journal of Organic Chemistry*, **1998**, 63, 2778-2781	4.2	45
323	Thermodynamics of RNA duplexes modified with unlocked nucleic acid nucleotides. *Nucleic Acids Research*, **2010**, 38, 6697-706	20.1	44
322	Aptamers as a model for functional evaluation of LNA and 2'-amino LNA. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 6585-7	2.9	44
321	Thermodynamics of DNA-RNA heteroduplex formation: effects of locked nucleic acid nucleotides incorporated into the DNA strand. *Biochemistry*, **2008**, 47, 1218-27	3.2	44
320	Functionalized 2'-amino-alpha-L-LNA: directed positioning of intercalators for DNA targeting. *Journal of Organic Chemistry*, **2009**, 74, 1070-81	4.2	43
319	Novel chemoselective de-esterification of esters of polyacetoxy aromatic acids by lipases. *Tetrahedron*, **1997**, 53, 2163-2176	2.4	42
318	alpha-L-LNA (alpha-L-ribo configured locked nucleic acid) recognition of DNA: an NMR spectroscopic study. *Chemistry - A European Journal*, **2002**, 8, 3001-9	4.8	42
317	Synthesis of 2'-amino-LNA: a new strategy. *Organic and Biomolecular Chemistry*, **2003**, 1, 655-63	3.9	42
316	X-ray crystal structure of a locked nucleic acid (LNA) duplex composed of a palindromic 10-mer DNA strand containing one LNA thymine monomer. *Chemical Communications*, **2001**, 651-652	5.8	40
315	alpha-L-LNA (alpha-I-ribo configured locked nucleic acid) recognition of RNA. A study by NMR spectroscopy and molecular dynamics simulations. *Journal of the American Chemical Society*, **2001**, 123, 7431-2	16.4	40
314	Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part 4: hyperbolic activation of rat liver microsomal NADPH-cytochrome C reductase by the novel acetylator 7,8-diacetoxy-4-methylcoumarin. *Bioorganic and Medicinal Chemistry*, **1999**, 7, 369-73	3.4	40
313	Synthesis and hybridization studies of 2'-amino-alpha-L-LNA and tetracyclic "locked LNA". *Journal of Organic Chemistry*, **2006**, 71, 4188-201	4.2	39
312	Synthesis of abasic locked nucleic acid and two seco-LNA derivatives and evaluation of their hybridization properties compared with their more flexible DNA counterparts. *Journal of Organic Chemistry*, **2000**, 65, 5167-76	4.2	39
311	Structural basis of cleavage by RNase H of hybrids of arabinonucleic acids and RNA. *Biochemistry*, **2000**, 39, 3525-32	3.2	39
310	Synthesis of 3'-C-(Hydroxymethyl)thymidine: Introduction of a Novel Class of Deoxynucleosides and Oligodeoxynucleotides. *Journal of the American Chemical Society*, **1994**, 116, 2231-2232	16.4	39

309	Targeting VEGF with LNA-stabilized G-rich oligonucleotide for efficient breast cancer inhibition. *Chemical Communications*, **2015**, 51, 9499-502	5.8	38
308	Synthesis of L-3'-azido-3'-deoxythymidine (L-AZT) and its stereoisomers. *Journal of Organic Chemistry*, **1991**, 56, 3591-3594	4.2	38
307	Thermodynamic and biological evaluation of a thrombin binding aptamer modified with several unlocked nucleic acid (UNA) monomers and a 2'-C-piperazino-UNA monomer. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 4739-45	3.4	37
306	LNA (locked nucleic acid) and analogs as triplex-forming oligonucleotides. *Organic and Biomolecular Chemistry*, **2007**, 5, 2375-9	3.9	37
305	Oligonucleotide analogue interference with the HIV-1 Tat protein-TAR RNA interaction. *Nucleosides, Nucleotides and Nucleic Acids*, **2001**, 20, 471-80	1.4	36
304	High-affinity nucleic acid recognition using □NA□(locked nucleic acid, □D-ribo configured LNA), □xylo-LNA□(□D-xylo configured LNA) or □L-LNA□(□L-ribo configured LNA). *Chemical Communications*, **1999**, 2073-2074	5.8	36
303	Tri-O-acyl 2-deoxy-D-ribofuranose: An effective enzyme-assisted one-pot synthesis from 2-deoxy-D-ribose and transformation into 2?-deoxynucleosides. *Tetrahedron Letters*, **1995**, 36, 6163-6166	2	36
302	Oligodeoxynucleotide analogues containing 3?-deoxy-3?-C-threo-hydroxymethylthymidine: Synthesis, hybridization properties and enzymatic stability. *Tetrahedron*, **1993**, 49, 11341-11352	2.4	36
301	A hyaluronic acid-based hydrogel enabling CD44-mediated chondrocyte binding and gapmer oligonucleotide release for modulation of gene expression in osteoarthritis. *Journal of Controlled Release*, **2017**, 253, 153-159	11.7	35
300	Interfacing click chemistry with automated oligonucleotide synthesis for the preparation of fluorescent DNA probes containing internal xanthene and cyanine dyes. *Chemistry - A European Journal*, **2013**, 19, 1112-22	4.8	35
299	Functionalization of 2'-amino-LNA with additional nucleobases. *Organic and Biomolecular Chemistry*, **2009**, 7, 1793-7	3.9	35
298	The sugar conformation governs (6-4) photoproduct formation at the dinucleotide level. *Journal of the American Chemical Society*, **2008**, 130, 30-1	16.4	35
297	Nucleic acid structural engineering using pyrene-functionalized 2'-amino-alpha-L-LNA monomers and abasic sites. *Journal of Organic Chemistry*, **2008**, 73, 7060-6	4.2	35
296	A structure-activity study of the inhibition of HIV-1 Tat-dependent trans-activation by mixmer 2'-O-methyl oligoribonucleotides containing locked nucleic acid (LNA), alpha-L-LNA, or 2'-thio-LNA residues. *Oligonucleotides*, **2003**, 13, 435-53		35
295	Antisense molecules and furanose conformations□ is it really that simple?. *Chemical Communications*, **2001**, 1419-1424	5.8	35
294	LNA-antisense rivals siRNA for gene silencing. *Current Opinion in Drug Discovery & Development*, **2004**, 7, 188-94		35
293	Sensitive SNP dual-probe assays based on pyrene-functionalized 2'-amino-LNA: lessons to be learned. *ChemBioChem*, **2007**, 8, 2240-8	3.8	34
292	DNA-selective hybridization and dual strand invasion of short double-stranded DNA using pyren-1-ylcarbonyl-functionalized 4'-C-piperazinomethyl-DNA. *Chemical Communications*, **2004**, 1064-5	5.8	34

291	Conformationally controlled high-affinity targeting of RNA or DNA by novel 2'-amino-DNA/LNA mixmers and pyrenyl-functionalized 2'-amino-DNA. *Organic and Biomolecular Chemistry*, **2004**, 2, 2885-7	3.9	34
290	Exploring cellular activity of locked nucleic acid-modified triplex-forming oligonucleotides and defining its molecular basis. *Journal of Biological Chemistry*, **2005**, 280, 20076-85	5.4	34
289	A comparison of the solution structures of an LNA:DNA duplex and the unmodified DNA:DNA duplex. *Perkin Transactions II RSC*, **2001**, 1224-1232		34
288	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. *Artificial DNA, PNA & XNA*, **2010**, 1, 36-44		33
287	Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part 7: Assay and characterization of 7,8-diacetoxy-4-methylcoumarin:protein transacetylase from rat liver microsomes based on the irreversible inhibition of cytosolic glutathione S-transferase. *Bioorganic and Medicinal Chemistry*, **2000**, 8, 1707-12	3.4	33
286	Incorporation of (R)- and (S)-3',4'-seco-thymidine into oligodeoxynucleotides: hybridization properties and enzymatic stability. *Nucleic Acids Research*, **1994**, 22, 703-10	20.1	33
285	Hybridization-based detection of Helicobacter pylori at human body temperature using advanced locked nucleic acid (LNA) probes. *PLoS ONE*, **2013**, 8, e81230	3.7	32
284	Amino acids attached to 2'-amino-LNA: synthesis and excellent duplex stability. *Organic and Biomolecular Chemistry*, **2011**, 9, 243-52	3.9	32
283	Neolignans and alkaloids from Piper argyrophylum. *Phytochemistry*, **1996**, 43, 1355-1360	4	32
282	Peptide-oligonucleotide conjugates as nanoscale building blocks for assembly of an artificial three-helix protein mimic. *Nature Communications*, **2016**, 7, 12294	17.4	31
281	Filling the gap in LNA antisense oligo gapmers: the effects of unlocked nucleic acid (UNA) and 4'-C-hydroxymethyl-DNA modifications on RNase H recruitment and efficacy of an LNA gapmer. *Molecular BioSystems*, **2009**, 5, 838-43		31
280	Selection of LNA-containing DNA aptamers against recombinant human CD73. *Molecular BioSystems*, **2015**, 11, 1260-70		30
279	Identification and characterization of second-generation invader locked nucleic acids (LNAs) for mixed-sequence recognition of double-stranded DNA. *Journal of Organic Chemistry*, **2013**, 78, 9560-70	4.2	30
278	Modulation of i-motif thermodynamic stability by the introduction of UNA (unlocked nucleic acid) monomers. *Bioorganic and Medicinal Chemistry Letters*, **2011**, 21, 752-5	2.9	30
277	Locked nucleic acid and aptamers. *Nucleic Acid Therapeutics*, **2012**, 22, 366-70	4.8	30
276	Splice-switching efficiency and specificity for oligonucleotides with locked nucleic acid monomers. *Biochemical Journal*, **2008**, 412, 307-13	3.8	30
275	Intercalator conjugates of pyrimidine locked nucleic acid-modified triplex-forming oligonucleotides: improving DNA binding properties and reaching cellular activities. *Nucleic Acids Research*, **2005**, 33, 4223-34	20.1	30
274	Enzyme-Mediated Protecting Group Chemistry on the Hydroxyl Groups of Nucleosides. *Nucleosides & Nucleotides*, **1996**, 15, 1347-1359		30

273	Optimized DNA targeting using N,N-bis(2-pyridylmethyl)-beta-alanyl 2'-amino-LNA. *Chemical Communications*, **2005**, 1705-7	5.8	29
272	Locked nucleoside analogues expand the potential of DNAzymes to cleave structured RNA targets. *BMC Molecular Biology*, **2006**, 7, 19	4.5	29
271	Lna (Locked Nucleic Acid). *Nucleosides & Nucleotides*, **1999**, 18, 1365-1370		29
270	Splice-correcting oligonucleotides restore BTK function in X-linked agammaglobulinemia model. *Journal of Clinical Investigation*, **2014**, 124, 4067-81	15.9	29
269	Modular Assembly of Cell-targeting Devices Based on an Uncommon G-quadruplex Aptamer. *Molecular Therapy - Nucleic Acids*, **2015**, 4, e251	10.7	28
268	Thermodynamic, Anticoagulant, and Antiproliferative Properties of Thrombin Binding Aptamer Containing Novel UNA Derivative. *Molecular Therapy - Nucleic Acids*, **2018**, 10, 304-316	10.7	28
267	Novel interstrand communication systems within DNA duplexes based on 1-, 2- and 4-(phenylethynyl)pyrenes attached to 2'-amino-LNA: high-affinity hybridization and fluorescence sensing. *Chemical Communications*, **2010**, 46, 8362-4	5.8	28
266	In vitro incorporation of LNA nucleotides. *Nucleosides, Nucleotides and Nucleic Acids*, **2007**, 26, 1207-10	1.4	28
265	Mechanism of biochemical action of substituted benzopyran-2-ones. Part 8: Acetoxycoumarin: protein transacetylase specificity for aromatic nuclear acetoxy groups in proximity to the oxygen heteroatom. *Bioorganic and Medicinal Chemistry*, **2001**, 9, 1085-9	3.4	28
264	Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part 3: A novel mechanism for the inhibition of biological membrane lipid peroxidation by dioxygenated 4-methylcoumarins mediated by the formation of a stable ADP-Fe-inhibitor mixed ligand complex. *Bioorganic and Medicinal Chemistry*, **1998**, 6, 2205-12	3.4	27
263	Investigations toward new lead compounds from medicinally important plants. *Pure and Applied Chemistry*, **2005**, 77, 25-40	2.1	27
262	Transcription factor decoy oligonucleotides modified with locked nucleic acids: an in vitro study to reconcile biostability with binding affinity. *Nucleic Acids Research*, **2004**, 32, 1874-85	20.1	27
261	Chemistry of locked nucleic acids (LNA): Design, synthesis, and bio-physical properties. *International Journal of Peptide Research and Therapeutics*, **2003**, 10, 237-253	2.1	27
260	Improved RNA cleavage by LNAzyme derivatives of DNAzymes. *Biochemical Society Transactions*, **2004**, 32, 37-40	5.1	27
259	Synthesis of a novel bicyclic nucleoside restricted to an S-type conformation and initial evaluation of its hybridization properties when incorporated into oligodeoxynucleotides. *Journal of Organic Chemistry*, **2001**, 66, 5106-12	4.2	27
258	Fatty Acid-Modified Gapmer Antisense Oligonucleotide and Serum Albumin Constructs for Pharmacokinetic Modulation. *Molecular Therapy*, **2017**, 25, 1710-1717	11.7	26
257	Efficient reverse transcription using locked nucleic acid nucleotides towards the evolution of nuclease resistant RNA aptamers. *PLoS ONE*, **2012**, 7, e35990	3.7	25
256	A novel class of conformationally restricted oligonucleotideanalogues: synthesis of 2?,3?-bridged monomers andRNA-selective hybridisation. *Chemical Communications*, **1997**, 825-826	5.8	25

255	The adenine derivative of alpha-L-LNA (alpha-L-ribo configured locked nucleic acid): synthesis and high-affinity hybridization towards DNA, RNA, LNA and alpha-L-LNA complementary sequences. *Bioorganic and Medicinal Chemistry Letters*, **2001**, 11, 935-8	2.9	25
254	Convenient syntheses of 7-hydroxy-1-(hydroxymethyl)-3-(thymin-1-yl)-2,5-dioxabicyclo. *Journal of Organic Chemistry*, **2000**, 65, 5161-6	4.2	25
253	Towards Fluorescence In Vivo Hybridization (FIVH) Detection of H. pylori in Gastric Mucosa Using Advanced LNA Probes. *PLoS ONE*, **2015**, 10, e0125494	3.7	25
252	An albumin-mediated cholesterol design-based strategy for tuning siRNA pharmacokinetics and gene silencing. *Journal of Controlled Release*, **2016**, 232, 143-51	11.7	25
251	microRNA-155 inhibition restores Fibroblast Growth Factor 7 expression in diabetic skin and decreases wound inflammation. *Scientific Reports*, **2019**, 9, 5836	4.9	24
250	A quencher-free molecular beacon design based on pyrene excimer fluorescence using pyrene-labeled UNA (unlocked nucleic acid). *Bioorganic and Medicinal Chemistry*, **2013**, 21, 6186-90	3.4	24
249	"Clickable" LNA/DNA probes for fluorescence sensing of nucleic acids and autoimmune antibodies. *Chemical Communications*, **2013**, 49, 10751-3	5.8	24
248	Novel (phenylethynyl)pyrene-LNA constructs for fluorescence SNP sensing in polymorphic nucleic acid targets. *ChemBioChem*, **2012**, 13, 1509-19	3.8	24
247	Unlocked nucleic acid (UNA) and UNA derivatives: thermal denaturation studies. *Nucleic Acids Symposium Series*, **2008**, 133-4		24
246	Mismatch discrimination in fluorescent in situ hybridization using different types of nucleic acids. *Applied Microbiology and Biotechnology*, **2015**, 99, 3961-9	5.7	23
245	LNA for optimization of fluorescent oligonucleotide probes: improved spectral properties and target binding. *Bioconjugate Chemistry*, **2011**, 22, 533-9	6.3	23
244	Optimizing anti-gene oligonucleotide 'Zorro-LNA' for improved strand invasion into duplex DNA. *Nucleic Acids Research*, **2011**, 39, 1142-54	20.1	23
243	Application of small interfering RNAs modified by unlocked nucleic acid (UNA) to inhibit the heart-pathogenic coxsackievirus B3. *FEBS Letters*, **2010**, 584, 591-8	3.8	23
242	2'-Spiro ribo- and arabinonucleosides: synthesis, molecular modelling and incorporation into oligodeoxynucleotides. *Organic and Biomolecular Chemistry*, **2003**, 1, 3514-26	3.9	23
241	Neolignans and a lignan from Piper clarkii. *Phytochemistry*, **1995**, 39, 655-658	4	23
240	Development of an Efficient G-Quadruplex-Stabilised Thrombin-Binding Aptamer Containing a Three-Carbon Spacer Molecule. *ChemBioChem*, **2017**, 18, 755-763	3.8	22
239	Branched DNA nanostructures efficiently stabilised and monitored by novel pyrene-perylene 2'-L-amino-LNA FRET pairs. *Chemical Communications*, **2013**, 49, 511-3	5.8	22
238	Chemical fidelity of an RNA polymerase ribozyme. *Chemical Science*, **2013**, 4, 2804	9.4	22

237	The advantages of being locked. Assessing the cleavage of short and long RNAs by locked nucleic acid-containing 8-17 deoxyribozymes. *Journal of Biological Chemistry*, **2007**, 282, 35510-8	5.4	22
236	LNA and alpha-L-LNA: towards therapeutic applications. *Nucleosides, Nucleotides and Nucleic Acids*, **2003**, 22, 601-4	1.4	22
235	XNA (xylo Nucleic Acid): A Summary and New Derivatives. *European Journal of Organic Chemistry*, **2005**, 2005, 2297-2321	3.2	22
234	Synthesis of oligodeoxynucleotides containing 4?-C-(Hydroxymethyl)thymidine: Novel promising antisense molecules. *Tetrahedron Letters*, **1995**, 36, 2535-2538	2	22
233	Prediction of melting temperatures in fluorescence in situ hybridization (FISH) procedures using thermodynamic models. *Critical Reviews in Biotechnology*, **2016**, 36, 566-77	9.4	21
232	Development of bis-locked nucleic acid (bisLNA) oligonucleotides for efficient invasion of supercoiled duplex DNA. *Nucleic Acids Research*, **2013**, 41, 3257-73	20.1	21
231	Polymerase-directed synthesis of C5-ethynyl locked nucleic acids. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 6565-8	2.9	21
230	Locked nucleic acids and intercalating nucleic acids in the design of easily denaturing nucleic acids: thermal stability studies. *ChemBioChem*, **2004**, 5, 1673-9	3.8	21
229	MicroRNA therapeutics: design of single-stranded miR-216b mimics to target KRAS in pancreatic cancer cells. *RNA Biology*, **2018**, 15, 1273-1285	4.8	21
228	Multifunctional nucleic acids for tumor cell treatment. *Nucleic Acid Therapeutics*, **2014**, 24, 171-7	4.8	20
227	Peptide-LNA oligonucleotide conjugates. *Organic and Biomolecular Chemistry*, **2013**, 11, 4240-9	3.9	20
226	Synthesis and biophysical studies of coronene functionalized 2'-amino-LNA: a novel class of fluorescent nucleic acids. *Bioconjugate Chemistry*, **2010**, 21, 513-20	6.3	20
225	Deacylation studies on furanose triesters using an immobilized lipase: synthesis of a key precursor for bicyclonucleosides. *Chemical Communications*, **2007**, 2616-7	5.8	20
224	Synthesis and restricted furanose conformations of three novel bicyclic thymine nucleosides: a xylo-LNA nucleoside, a 3?-O,5?-C-methylene-linked nucleoside, and a 2?-O,5?-C-methylene-linked nucleoside. *Journal of the Chemical Society Perkin Transactions 1*, **1999**, 1407-1414		20
223	Unlocked nucleic acids with a pyrene-modified uracil: synthesis, hybridization studies, fluorescent properties and i-motif stability. *ChemBioChem*, **2014**, 15, 146-56	3.8	19
222	Photoinduced reductive electron transfer in LNA:DNA hybrids: a compromise between conformation and base stacking. *Angewandte Chemie - International Edition*, **2012**, 51, 10026-9	16.4	19
221	A locked nucleic acid-based nanocrawler: designed and reversible movement detected by multicolor fluorescence. *Journal of the American Chemical Society*, **2013**, 135, 2423-6	16.4	19
220	Introduction of a Universal Solid Support for Oligonucleotide Synthesis. *Nucleosides & Nucleotides*, **1997**, 16, 67-80		19

219	A Conformationally Locked Aminomethyl C-Glycoside and Studies on ItsN-Pyren-1-ylcarbonyl Derivative Inserted into Oligodeoxynucleotides. *European Journal of Organic Chemistry*, **2006**, 2006, 2538-2548	3.2	19
218	Synthesis and biological evaluation of nucleobase-modified analogs of the anticancer compounds 3'-C-ethynyluridine (EUrd) and 3'-C-ethynylcytidine (ECyd). *Bioorganic and Medicinal Chemistry*, **2005** , 13, 1249-60	3.4	19
217	3',4'-trans-linked bicyclic nucleosides locked in S-type conformations. *Chemical Communications*, **2002**, 1888-9	5.8	19
216	Next-generation bis-locked nucleic acids with stacking linker and 2'-glycylamino-LNA show enhanced DNA invasion into supercoiled duplexes. *Nucleic Acids Research*, **2016**, 44, 2007-19	20.1	18
215	Pyrene-modified unlocked nucleic acids: synthesis, thermodynamic studies, and fluorescent properties. *ChemBioChem*, **2012**, 13, 590-601	3.8	18
214	Electrochemistry of single metalloprotein and DNA-based molecules at Au(111) electrode surfaces. *ChemPhysChem*, **2013**, 14, 2101-11	3.2	18
213	LNA effects on DNA binding and conformation: from single strand to duplex and triplex structures. *Scientific Reports*, **2017**, 7, 11043	4.9	18
212	Synthesis of an unlocked nucleic acid terpyridine monomer and binding of divalent metal ion in nucleic acid duplexes. *Journal of Organic Chemistry*, **2009**, 74, 8838-41	4.2	18
211	Direct imaging of hexaamine-ruthenium(III) in domain boundaries in monolayers of single-stranded DNA. *Langmuir*, **2007**, 23, 1410-3	4	18
210	Selective biocatalytic deacylation studies on furanose triesters: a novel and efficient approach towards bicyclonucleosides. *Organic and Biomolecular Chemistry*, **2007**, 5, 3524-30	3.9	18
209	Synthesis and biological evaluation of branched and conformationally restricted analogs of the anticancer compounds 3'-C-ethynyluridine (EUrd) and 3'-C-ethynylcytidine (ECyd). *Bioorganic and Medicinal Chemistry*, **2005**, 13, 2597-621	3.4	18
208	Branched oligonucleotides containing bicyclic nucleotides as branching points and DNA or LNA as triplex forming branch. *Bioorganic and Medicinal Chemistry Letters*, **2000**, 10, 1853-6	2.9	18
207	On the influence of conformational locking of sugar moieties on the absorption and circular dichroism of nucleosides from synchrotron radiation experiments. *Journal of Photochemistry and Photobiology A: Chemistry*, **2007**, 187, 293-298	4.7	17
206	LNA-modified oligonucleotides effectively drive intramolecular-stable hairpin to intermolecular-duplex state. *Biochemical and Biophysical Research Communications*, **2007**, 352, 118-22	3.4	17
205	Oligodeoxynucleotides containing alpha-L-ribo configured LNA-type C-aryl nucleotides. *Organic and Biomolecular Chemistry*, **2004**, 2, 80-9	3.9	17
204	Highly efficient diastereoselective biocatalytic acylation of a diastereotopic furanose diol and synthesis of key intermediates for amino derivatized bicyclonucleosides. *Tetrahedron*, **2003**, 59, 1333-1338	2.4	17
203	Improved RE31 Analogues Containing Modified Nucleic Acid Monomers: Thermodynamic, Structural, and Biological Effects. *Journal of Medicinal Chemistry*, **2019**, 62, 2499-2507	8.3	16
202	Detection and discrimination of biofilm populations using locked nucleic acid/2?-O-methyl-RNA fluorescence in situ hybridization (LNA/2?OMe-FISH). *Biochemical Engineering Journal*, **2015**, 104, 64-73	4.2	16

201	Design of LNA-modified siRNAs against the highly structured 5' UTR of coxsackievirus B3. *FEBS Letters*, **2008**, 582, 3061-6	3.8	16
200	Xylo-Configured oligonucleotides (XNA, xylo nucleic acid): synthesis of conformationally restricted derivatives and hybridization towards DNA and RNA complements. *Bioorganic and Medicinal Chemistry Letters*, **2003**, 13, 2285-90	2.9	16
199	A substituted triaza crown ether as a binding site in DNA conjugates. *Chemical Communications*, **2003**, 1006-7	5.8	16
198	Conformationally locked aryl C-nucleosides: synthesis of phosphoramidite monomers and incorporation into single-stranded DNA and LNA (locked nucleic acid). *Journal of the Chemical Society, Perkin Transactions 1*, **2002**, 2509-2519		16
197	Lignans and neolignans from stems and fruits of Piper wightii. *Tetrahedron*, **1994**, 50, 2231-2240	2.4	16
196	Synthesis of diastereomeric mixtures of 5'-C-hydroxymethylthymidine and introduction of a novel class of C-hydroxymethyl functionalised oligodeoxynucleotides. *Acta Chemica Scandinavica*, **1996**, 50, 1157-63		16
195	CTG repeat-targeting oligonucleotides for down-regulating Huntingtin expression. *Nucleic Acids Research*, **2017**, 45, 5153-5169	20.1	15
194	Application of locked nucleic acid-based probes in fluorescence in situ hybridization. *Applied Microbiology and Biotechnology*, **2016**, 100, 5897-906	5.7	15
193	An Albumin-Oligonucleotide Assembly for Potential Combinatorial Drug Delivery and Half-Life Extension Applications. *Molecular Therapy - Nucleic Acids*, **2017**, 9, 284-293	10.7	15
192	Oligonucleotides containing a piperazino-modified 2'-amino-LNA monomer exhibit very high duplex stability and remarkable nuclease resistance. *Chemical Communications*, **2015**, 51, 4024-7	5.8	15
191	Large scale synthesis of 2'-amino-LNA thymine and 5-methylcytosine nucleosides. *Journal of Organic Chemistry*, **2012**, 77, 10718-28	4.2	15
190	LNA nucleotides improve cleavage efficiency of singular and binary hammerhead ribozymes. *Bioorganic and Medicinal Chemistry*, **2007**, 15, 6135-43	3.4	15
189	3'-C-Branched LNA-type nucleosides locked in an N-type furanose ring conformation: synthesis, incorporation into oligodeoxynucleotides, and hybridization studies. *Journal of Organic Chemistry*, **2004**, 69, 6310-22	4.2	15
188	Oligonucleotides Containing Novel 4?-C- or 3?-C-(Aminoalkyl)-Branched Thymidines. *Helvetica Chimica Acta*, **2000**, 83, 128-151	2	15
187	Novel bicyclic nucleoside analogue (1S,5S,6S)-6-hydroxy-5-hydroxymethyl-1-(uracil-1-yl)-3,8-dioxabicyclo[3.2.1]octane: synthesis and incorporation into oligodeoxynucleotides. *Journal of Organic Chemistry*, **2001**, 66, 5498-503	4.2	15
186	Oligonucleotide analogues containing 4'-C-(hydroxymethyl)uridine: synthesis, evaluation and mass spectrometric analysis. *Bioorganic and Medicinal Chemistry*, **1995**, 3, 1493-502	3.4	15
185	Structure of a DNA duplex containing a single 2'-O-methyl-beta-D-araT: combined use of NMR, restrained molecular dynamics, and full relaxation matrix refinement. *Bioconjugate Chemistry*, **1996**, 7, 680-8	6.3	15
184	Aflatoxin B1-induced micronuclei and cell cycle alterations in lung and bone marrow cells and their modulation by Piper argyrophyllum extract. *Teratogenesis, Carcinogenesis, and Mutagenesis*, **1998**, 18, 249-261		14

183	Synthesis and chemoselective activation of phenyl 3,5-di-O-benzyl-2-O,4-C-methylene-1-thio-β-D-ribofuranoside: a key synthon towards β-LNA. *Chemical Communications*, **1998**, 2645-2646	5.8	14
182	Investigation of restricted backbone conformations as an explanation for the exceptional thermal stabilities of duplexes involving LNA (Locked Nucleic Acid): synthesis and evaluation of abasic LNA. *Chemical Communications*, **1999**, 657-658	5.8	14
181	Synthesis of thymidine dimers containing piperazine in the internucleoside linkage and their incorporation into oligodeoxynucleotides. *Tetrahedron*, **1995**, 51, 2145-2154	2.4	14
180	A Convenient Method for the Synthesis of L-3?-Amino-2?,3?-dideoxyuridines. *Synthesis*, **1989**, 1989, 829-832	2.9	14
179	Hydrogel-Assisted Antisense LNA Gapmer Delivery for In Situ Gene Silencing in Spinal Cord Injury. *Molecular Therapy - Nucleic Acids*, **2018**, 11, 393-406	10.7	13
178	Electrochemistry and in situ scanning tunnelling microscopy of pure and redox-marked DNA- and UNA-based oligonucleotides on Au(111)-electrode surfaces. *Physical Chemistry Chemical Physics*, **2013**, 15, 776-86	3.6	13
177	Dissecting the chemical interactions and substrate structural signatures governing RNA polymerase II trigger loop closure by synthetic nucleic acid analogues. *Nucleic Acids Research*, **2014**, 42, 5863-70	20.1	13
176	A chemical perspective on transcriptional fidelity: dominant contributions of sugar integrity revealed by unlocked nucleic acids. *Angewandte Chemie - International Edition*, **2013**, 52, 12341-5	16.4	13
175	DNA and LNA oligonucleotides containing N2'-functionalised derivatives of 2'-amino-2'-deoxyuridine. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 3166-9	2.9	13
174	Parallel nucleic acid recognition by the LNA (locked nucleic acid) stereoisomers beta-L-LNA and alpha-D-LNA; studies in the mirror image world. *Chemical Communications*, **2004**, 282-3	5.8	13
173	Synthesis and evaluation of anti-HIV-1 activity of 3?-azido-3?-deoxy-2?-O,4?-C-methylene-linked bicyclic thymine nucleosides. *Journal of the Chemical Society, Perkin Transactions 1*, **2000**, 3610-3614		13
172	Synthesis and properties of alpha- and beta-oligodeoxynucleotides containing alpha- and beta-1-(2-O-methyl-D-arabino-furanosyl)thymine. *Bioorganic and Medicinal Chemistry*, **1996**, 4, 1217-25	3.4	13
171	Improvement of a streptavidin-binding aptamer by LNA- and β-LNA-substitutions. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 2273-7	2.9	12
170	Polymerase directed incorporation studies of LNA-G nucleoside 5?-triphosphate and primer extension involving all four LNA nucleotides. *New Journal of Chemistry*, **2010**, 34, 877	3.6	12
169	Biocatalytic separation of N-7/N-9 guanine nucleosides. *Journal of Organic Chemistry*, **2010**, 75, 7932-5	4.2	12
168	In vivo screening of modified siRNAs for non-specific antiviral effect in a small fish model: number and localization in the strands are important. *Nucleic Acids Research*, **2012**, 40, 4653-65	20.1	12
167	Phosphoramidites derived from tertiary alcohols. Why do they sometimes couple with low efficiency?. *Tetrahedron Letters*, **1998**, 39, 8361-8364	2	12
166	Synthesis and RNA-selective hybridization of β-ribo- and β-lyxo-configured oligonucleotides. *Tetrahedron*, **2006**, 62, 2278-2294	2.4	12

165	Parallel synthesis of a small library of novel aminoglycoside analogs based on 2-amino-2-deoxy-d-glucose and d-ribose scaffolds. *Tetrahedron*, **2001**, 57, 6277-6287	2.4	12
164	Synthesis and antiviral evaluation of novel conformationally locked nucleosides and masked 5?-phosphate derivatives thereof. *Journal of the Chemical Society, Perkin Transactions 1*, **2002**, 1655-1662		12
163	Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part 5: Pulse radiolysis studies on the antioxidant action of 7,8-diacetoxy-4-methylcoumarin. *Bioorganic and Medicinal Chemistry*, **1999**, 7, 2091-4	3.4	12
162	Incorporation of 3?-C-(Hydroxymethyl)thymidine into novel oligodeoxynucleotide analogues. *Tetrahedron*, **1995**, 51, 2155-2164	2.4	12
161	Branched oligodeoxynucleotides: Automated synthesis and triple helical hybridization studie. *Tetrahedron*, **1995**, 51, 8491-8506	2.4	12
160	Some recent isolation studies from potential insecticidal Piper species. *Pure and Applied Chemistry*, **1994**, 66, 2339-2342	2.1	12
159	Selective Deformylation of an Unsaturated Sugar Aldehyde in a Very Short Synthesis of 3?-Azido-3?-deoxythymidine (AZT) and its Stereoisomers. *Synthesis*, **1991**, 1991, 451-454	2.9	12
158	Synthesis of 2?,3?-Dideoxy-D-erythro-hexofuranosyl Nucleosides and 3?-Azido-2?, 3?-dideoxy-D-arabino-hexofuranosyl Nucleosides From Tri-O-acetyl-D-glucal via an Unsaturated Hexose Aldehyde. *Synthesis*, **1991**, 1991, 1183-1190	2.9	12
157	Neolignans from Piper schmidtii and Reassignment of the Structure of Schmiditin.. *Acta Chemica Scandinavica*, **1995**, 49, 142-148		12
156	Targeting miR-9 in gastric cancer cells using locked nucleic acid oligonucleotides. *BMC Molecular Biology*, **2018**, 19, 6	4.5	12
155	Oligonucleotides Containing Aminated 2'-Amino-LNA Nucleotides: Synthesis and Strong Binding to Complementary DNA and RNA. *Bioconjugate Chemistry*, **2017**, 28, 1214-1220	6.3	11
154	Enzymatic polymerisation involving 2'-amino-LNA nucleotides. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 3522-6	2.9	11
153	Synthesis and characterization of oligodeoxyribonucleotides modified with 2'-amino-L-LNA adenine monomers: high-affinity targeting of single-stranded DNA. *Journal of Organic Chemistry*, **2013**, 78, 12690-702	4.2	11
152	Photoligation of self-assembled DNA constructs containing anthracene-functionalized 2'-amino-LNA monomers. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 7407-15	3.4	11
151	NickFect type of cell-penetrating peptides present enhanced efficiency for microRNA-146a delivery into dendritic cells and during skin inflammation. *Biomaterials*, **2020**, 262, 120316	15.6	11
150	Nuclease resistant methylphosphonate-DNA/LNA chimeric oligonucleotides. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 2707-9	2.9	10
149	Identification of efficient and sequence specific bimolecular artificial ribonucleases by a combinatorial approach. *Chemical Communications*, **2008**, 762-4	5.8	10
148	Effect of locked nucleic acid (LNA) modification on hybridization kinetics of DNA duplex. *Nucleic Acids Symposium Series*, **2008**, 417-8		10

147	DNA self-assembling systems: branched oligonucleotides as building blocks and monitoring by pyrene excimer band formation. *Nucleosides, Nucleotides and Nucleic Acids*, **2005**, 24, 679-81	1.4	10
146	Alpha-L-RNA (alpha-L-ribo configured RNA): synthesis and RNA-selective hybridization of alpha-L-RNA/alpha-L-LNA chimera. *Bioorganic and Medicinal Chemistry Letters*, **2002**, 12, 593-6	2.9	10
145	N-methylpiperazinocarbonyl-2',3'-BcNA and 4'-C-(N-methylpiperazino)methyl-DNA: introduction of basic functionalities facing the major groove and the minor groove of a DNA:DNA duplex. *Chemical Communications*, **2003**, 1604-5	5.8	10
144	Enhanced inhibition of transcription start by targeting with 2'-OMe pentaribonucleotides comprising locked nucleic acids and intercalating nucleic acids. *ChemBioChem*, **2005**, 6, 1181-4	3.8	10
143	Universal hybridization using LNA (locked nucleic acid) containing a novel pyrene LNA nucleotide monomer. *Chemical Communications*, **2001**, 2114-5	5.8	10
142	Stereoselective synthesis, chemistry and antiviral evaluation of 1-(2,3-dideoxy-3-C-hydroxymethyl-beta-D-threo-pentofuranosyl)thymine derivatives. *Bioorganic and Medicinal Chemistry*, **1995**, 3, 1223-9	3.4	10
141	Branched oligodeoxynucleotides: a new synthetic strategy and formation of strong intra- and intermolecular triple helical complexes. *Bioorganic and Medicinal Chemistry Letters*, **1995**, 5, 791-794	2.9	10
140	Novel oligodeoxynucleotide analogues containing a 2?-O-methylarabinonucleoside. *Tetrahedron Letters*, **1994**, 35, 6941-6944	2	10
139	Fluorescence In Vivo Hybridization (FIVH) for Detection of Helicobacter pylori Infection in a C57BL/6 Mouse Model. *PLoS ONE*, **2016**, 11, e0148353	3.7	10
138	Stepping towards highly flexible aptamers: enzymatic recognition studies of unlocked nucleic acid nucleotides. *Chemical Communications*, **2012**, 48, 5503-5	5.8	9
137	Synthesis and structural characterization of piperazino-modified DNA that favours hybridization towards DNA over RNA. *Nucleic Acids Research*, **2011**, 39, 1953-65	20.1	9
136	Novel insights into the use of Glowing LNA as nucleic acid detection probes--influence of labeling density and nucleobases. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 7265-8	2.9	9
135	Synthesis and thermal denaturation studies of novel 2'-O,3'-C-linked bicyclic oligonucleotides with a methoxy or a piperazino group facing the major groove of nucleic acid duplexes. *Organic and Biomolecular Chemistry*, **2005**, 3, 130-5	3.9	9
134	Adsorption and surface dynamics of short DNA and LNA oligonucleotides on single-crystal Au(111) electrode surfaces. *Surface Science*, **2006**, 600, 122-127	1.8	9
133	Methylphosphonate LNA: a locked nucleic acid with a methylphosphonate linkage. *Bioorganic and Medicinal Chemistry Letters*, **2003**, 13, 253-6	2.9	9
132	Stereocontrolled synthesis of LNA dinucleoside phosphorothioate by the oxathiaphospholane approach. *Bioorganic and Medicinal Chemistry Letters*, **2001**, 11, 1001-3	2.9	9
131	Oligodeoxynucleotides containing amide-linked LNA-type dinucleotides: synthesis and high-affinity nucleic acid hybridization. *Chemical Communications*, **2002**, 530-1	5.8	9
130	2-Deoxy-3-C-(hydroxymethyl)-D-pentofuranose Derivatives: Stereoselective Synthesis and Conversion into a Novel Class of Nucleoside Analogs. *Journal of Organic Chemistry*, **1995**, 60, 7298-7303	4.2	9

129	Synthesis of 2?,3?-Dideoxy-3?-piperidino- and 2?, 3?-Dideoxy-3?-pyrrolidino-D-ribo-hexofuranosyl Nucleosides from Tri-O-acetyl-D-glucal. *Synthesis*, **1992**, 1992, 319-322	2.9	9
128	Benzofuranoid Neolignans from Piper wightii Miq... *Acta Chemica Scandinavica*, **1994**, 48, 1007-1011		9
127	Folding Topology of a Short Coiled-Coil Peptide Structure Templated by an Oligonucleotide Triplex. *Chemistry - A European Journal*, **2017**, 23, 9297-9305	4.8	8
126	Effect of Native Gastric Mucus on in vivo Hybridization Therapies Directed at Helicobacter pylori. *Molecular Therapy - Nucleic Acids*, **2015**, 4, e269	10.7	8
125	Helligkeit durch lokale Rigidifizierung LNA-verstkte FIT-Sonden zur bildgebenden Darstellung von Ribonukleotidpartikeln in vivo. *Angewandte Chemie*, **2014**, 126, 11553-11558	3.6	8
124	Amplification and re-generation of LNA-modified libraries. *Molecules*, **2012**, 17, 13087-97	4.8	8
123	LNA 5'-phosphoramidites for 5'-B'-oligonucleotide synthesis. *Organic and Biomolecular Chemistry*, **2010**, 8, 5012-6	3.9	8
122	Enzymatic synthesis of DNA strands containing L-LNA (L-configured locked nucleic acid) thymine nucleotides. *Artificial DNA, PNA & XNA*, **2012**, 3, 14-21		8
121	Neolignans, cyclohexanes and alkaloids from Piper wightii. *Recueil Des Travaux Chimiques Des Pays-Bas*, **2010**, 115, 9-12		8
120	Electron injection from the side of an M-DNA duplex. *Journal of Biological Inorganic Chemistry*, **2006** , 11, 82-7	3.7	8
119	Oligonucleotide analogues containing (2?S)- and (2?R)-2?-O,3?-C-((2?-C-hydroxymethyl)ethylene)-linked bicyclic nucleoside monomers:Synthesis, RNA-selective binding, and diastereoselective formation of a very stable homocomplex based on T:T base pairing. *Journal of the Chemical Society Perkin Transactions 1*, **1999**, 2543-2551		8
118	Analogues of the antibiotic puromycin as potential prodrugs of 3?-amino-3?-deoxythymidine. *Journal of Heterocyclic Chemistry*, **1992**, 29, 5-9	1.9	8
117	Modification of oligodeoxynucleotides by on-column Suzuki cross-coupling reactions. *Chemical Communications*, **2018**, 54, 8003-8006	5.8	8
116	Role of Pseudoisocytidine Tautomerization in Triplex-Forming Oligonucleotides: In Silico and in Vitro Studies. *ACS Omega*, **2017**, 2, 2165-2177	3.9	7
115	A self-assembled, modular nucleic acid-based nanoscaffold for multivalent theranostic medicine. *Theranostics*, **2019**, 9, 2662-2677	12.1	7
114	Synthesis and Biophysical Investigations of Oligonucleotides Containing Galactose-Modified DNA, LNA, and 2'-Amino-LNA Monomers. *Journal of Organic Chemistry*, **2016**, 81, 10845-10856	4.2	7
113	Delivery, Effect on Cell Viability, and Plasticity of Modified Aptamer Constructs. *Nucleic Acid Therapeutics*, **2016**, 26, 183-9	4.8	7
112	Bis-pyrene-modified unlocked nucleic acids: synthesis, hybridization studies, and fluorescent properties. *ChemMedChem*, **2014**, 9, 2120-7	3.7	7

111	Cleavage and protection of locked nucleic acid-modified DNA by restriction endonucleases. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 4836-8	2.9	7
110	Synthesis and structural characterization of 2'-fluoro-β-L-RNA-modified oligonucleotides. *ChemBioChem*, **2011**, 12, 1904-11	3.8	7
109	Modulating Anti-MicroRNA-21 Activity and Specificity Using Oligonucleotide Derivatives and Length Optimization. *ISRN Pharmaceutics*, **2012**, 2012, 407154		7
108	Synthesis of novel 3?-C-branched 2?-deoxynucleosides. Incorporation of 3?-C-(3-hydroxypropyl)thymidine into oligodeoxynucleotides. *Journal of the Chemical Society Perkin Transactions 1*, **1998**, 1409-1422		7
107	N2'-functionalized 2'-amino-alpha-L-LNA adenine derivatives--efficient targeting of single stranded DNA. *Nucleosides, Nucleotides and Nucleic Acids*, **2007**, 26, 1415-7	1.4	7
106	Novel applications of locked nucleic acids. *Nucleic Acids Symposium Series*, **2007**, 29-30		7
105	Locked nucleic acid synthesis. *Methods in Molecular Biology*, **2005**, 288, 127-46	1.4	7
104	NMR solution structure of dsDNA containing a bicyclic D-arabino-configured nucleotide fixed in an O4'-endo sugar conformation. *Organic and Biomolecular Chemistry*, **2003**, 1, 1790-7	3.9	7
103	Selective transacylation reactions on 4-aryl-3,4-dihydropyrimidin-2-ones and nucleosides mediated by novel lipases. *Pure and Applied Chemistry*, **2005**, 77, 237-243	2.1	7
102	Oligonucleotides containing 4'-C-aminomethyl-2'-modified thymidines show increased binding affinity towards DNA and RNA. *Bioorganic and Medicinal Chemistry Letters*, **1999**, 9, 2667-72	2.9	7
101	Synthesis of 3?-(N-Acetylpiperazino)-2?,3?-dideoxy-D-ribo-hexofuranosyl and -D-erythro-pentofuranosyl Thymine Nucleosides. *Synthesis*, **1994**, 1994, 823-826	2.9	7
100	Dual role of the miR-146 family in rhinovirus-induced airway inflammation and allergic asthma exacerbation. *Clinical and Translational Medicine*, **2021**, 11, e427	5.7	7
99	3'-Pyrene-modified unlocked nucleic acids: synthesis, fluorescence properties and a surprising stabilization effect on duplexes and triplexes. *Organic and Biomolecular Chemistry*, **2017**, 15, 2073-2085	3.9	6
98	Novel conformationally constrained 2'-C-methylribonucleosides: synthesis and incorporation into oligonucleotides. *Organic and Biomolecular Chemistry*, **2018**, 16, 1312-1321	3.9	6
97	Oligonucleotides with 1,4-dioxane-based nucleotide monomers. *Journal of Organic Chemistry*, **2012**, 77, 3878-86	4.2	6
96	Photoinduzierter reduktiver Elektronentransfer in LNA:DNA-Hybriden: Kompromiss aus Konformation und Basenstapelung. *Angewandte Chemie*, **2012**, 124, 10168-10172	3.6	6
95	Parallel RNA-strand recognition by 2'-amino-beta-L-LNA. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 2396-9	2.9	6
94	Fluorescent oligonucleotides containing a novel perylene 2?-amino-β-L-LNA monomer: Synthesis and analytical potential. *Collection of Czechoslovak Chemical Communications*, **2011**, 76, 1347-1360		6

93	Synthesis and hybridization studies of alpha-configured arabino nucleic acids. *Organic and Biomolecular Chemistry*, **2009**, 7, 2389-401	3.9	6
92	Synthesis and hybridization properties of [illegible]and [illegible]oligodeoxynucleotides containing [illegible]and [illegible]1-(3-C-allyl-2-deoxy-D-erythro-pentofuranosyl)thymine and [illegible]1-[3-C-(3-aminopropyl)-2-deoxy-D-erythro-pentofuranosyl]thymine. *Journal of the Chemical Society Perkin Transactions 1*, **1997**, 3275-3284		6
91	Chemically modified oligonucleotides with efficient RNase H response. *Bioorganic and Medicinal Chemistry Letters*, **2008**, 18, 2296-300	2.9	6
90	Triplex-forming ability of modified oligonucleotides. *Nucleosides, Nucleotides and Nucleic Acids*, **2007**, 26, 1411-4	1.4	6
89	Synthesis, nucleic acid hybridization properties and molecular modelling studies of conformationally restricted 3'-O,4'-C-methylene-linked alpha-L-ribonucleotides. *Carbohydrate Research*, **2006**, 341, 1398-407	2.9	6
88	The Eight Stereoisomers of LNA (Locked Nucleic Acid): A Remarkable Family of Strong RNA Binding Molecules. *Angewandte Chemie*, **2000**, 112, 1722-1725	3.6	6
87	Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part 6: hydrolysis of 7,8-diacetoxy-4-methylcoumarin by a novel deacetylase in rat liver microsomes--a simple method for assay and characterisation. *Bioorganic and Medicinal Chemistry*, **2000**, 8, 233-7	3.4	6
86	Synthesis and evaluation of anti-HIV activity of 3-azido-4-(hydroxymethyl)tetrahydrofuran derivatives containing 2-(thymin-1-yl)methyl, 2-(cytosin-1-yl)methyl or 2-(adenin-9-yl)methyl substituents [illegible]a new series of AZT analogues. *Journal of the Chemical Society, Perkin Transactions 1*, [illegible]		6
85	Synthesis of Novel 3?-C-(Hydroxymethyl)thymidines and Oligodeoxynucleotide Analogues Containing Compressed 3?-C-Hydroxymethyl-Linked Phosphodiester Backbones. *Nucleosides & Nucleotides*, **1995**, 14, 1465-1479		6
84	Incorporation of amide linked thymidine dimers into oligodeoxynucleotides. *Bioorganic and Medicinal Chemistry Letters*, **1996**, 6, 987-990	2.9	6
83	Lignans and neolignans from stems of Piper wightii. *Tetrahedron*, **1994**, 50, 10579-10586	2.4	6
82	Molecular determinants for agonist recognition and discrimination in P2X2 receptors. *Journal of General Physiology*, **2019**, 151, 898-911	3.4	5
81	Watson-Crick hydrogen bonding of unlocked nucleic acids. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 5064-6	2.9	5
80	Minimal substrate features for Erm methyltransferases defined by using a combinatorial oligonucleotide library. *ChemBioChem*, **2011**, 12, 610-4	3.8	5
79	The solution structure of a DNA duplex containing a single 1-(2-O,3-C-ethylene-beta-D-arabinofuranosyl)thymidine nucleoside. *Journal of Biomolecular Structure and Dynamics*, **2000**, 18, 45-57	3.6	5
78	Methylenedioxyphenyl substituted compounds from Piper species as inhibitors of liver microsome-mediated aflatoxin B1-DNA binding in vitro. *Bioorganic and Medicinal Chemistry Letters*, **1995**, 5, 1567-1572	2.9	5
77	Convenient Synthesis of 4-C-Branched Lactones and 3?-C-Branched 2?,3?-Dideoxynucleosides. *Nucleosides & Nucleotides*, **1996**, 15, 1361-1368		5
76	Self-Assembly of DNA-Peptide Supermolecules: Coiled-Coil Peptide Structures Templated by d-DNA and l-DNA Triplexes Exhibit Chirality-Independent but Orientation-Dependent Stabilizing Cooperativity. *Chemistry - A European Journal*, **2020**, 26, 5676-5684	4.8	4

75	Alpha-l-Locked Nucleic Acid-Modified Antisense Oligonucleotides Induce Efficient Splice Modulation In Vitro. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
74	Synergy of Two Highly Specific Biomolecular Recognition Events: Aligning an AT-Hook Peptide in DNA Minor Grooves via Covalent Conjugation to 2'-Amino-LNA. *Bioconjugate Chemistry*, **2018**, 29, 1025-1029	6.3	4
73	Selective biocatalytic acylation studies on 5'-O-(4,4'-dimethoxytrityl)-2',3'-secouridine: an efficient synthesis of UNA monomer. *Nucleosides, Nucleotides and Nucleic Acids*, **2012**, 31, 831-40	1.4	4
72	Automated synthesis of branched oligodeoxynucleotide analogues usingarabino-uridine as branching nucleotide. *Journal of the Chemical Society Perkin Transactions 1*, **1997**, 1951-1956		4
71	Pyrene-functionalized 2'-amino-alpha-L-LNA as potential diagnostic probes. *Nucleosides, Nucleotides and Nucleic Acids*, **2007**, 26, 1407-9	1.4	4
70	Synthesis and biophysical studies of N2'-functionalized 2'-amino-alpha-L-LNA. *Nucleosides, Nucleotides and Nucleic Acids*, **2007**, 26, 1403-5	1.4	4
69	Synthesis and biological evaluation of conformationally restricted and nucleobase-modified analogs of the anticancer compound 3'-C-ethynylcytidine (ECyd). *Nucleosides, Nucleotides and Nucleic Acids*, **2005**, 24, 397-400	1.4	4
68	Synthesis of 1-(2?- O -methyl-□d -ribofuranosyl)-5-nitroindole and its phosphoramidite derivative. *Tetrahedron Letters*, **2004**, 45, 5629-5632	2	4
67	Structural characterization of LNA and alpha-L-LNA hybridized to RNA. *Nucleosides, Nucleotides and Nucleic Acids*, **2003**, 22, 1691-3	1.4	4
66	xylo-configured oligonucleotides (XNA, xylo nucleic acids): synthesis and hybridization studies. *Nucleosides, Nucleotides and Nucleic Acids*, **2003**, 22, 1147-9	1.4	4
65	Novel nucleic acid architectures involving locked nucleic acid (LNA) and pyrene residues: Results from an Indo-Danish collaboration. *Pure and Applied Chemistry*, **2005**, 77, 319-326	2.1	4
64	Oligodeoxynucleotides Containing Diastereomeric O2?,C3?-linked Bicyclic Nucleotide Units for Functionalization of the Major Groove of Nucleic Acid Duplexes: A Summary and Novel Derivatives*. *Journal of Carbohydrate Chemistry*, **2005**, 24, 475-502	1.7	4
63	Synthesis and Evaluation of Oligodeoxynucleotides Containing 3?-O-Ethyl-4?-C-(hydroxymethyl)thymidine: Introduction of a Novel Class of Phosphodiester Internucleoside Linkages. *Nucleosides & Nucleotides*, **1994**, 13, 1939-1952		4
62	In vitro and in vivo properties of therapeutic oligonucleotides containing non-chiral 3' and 5' thiophosphate linkages. *Nucleic Acids Research*, **2020**, 48, 63-74	20.1	4
61	Improved Cancer Targeting by Multimerizing Aptamers on Nanoscaffolds. *Molecular Therapy - Nucleic Acids*, **2020**, 22, 994-1003	10.7	4
60	Oligodeoxynucleotides containing 2'-amino-LNA nucleotides as constrained morpholino phosphoramidate and phosphorodiamidate monomers. *Bioorganic and Medicinal Chemistry Letters*, **2017**, 27, 3173-3176	2.9	3
59	Boronic acid-based autoligation of nucleic acids: influence of the nature of the 3?-end ribonucleotidic strand. *Monatshefte F□ Chemie*, **2013**, 144, 495-500	1.4	3
58	Synthesis and Excellent Duplex Stability of Oligonucleotides Containing 2'-Amino-LNA Functionalized with Galactose Units. *Molecules*, **2017**, 22,	4.8	3

57	David versus Goliath. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2010**, 6, 504-9	6	3
56	Stereoselective synthesis of C-branched nucleoside analogues. *Studies in Natural Products Chemistry*, **1996**, 19, 511-547	1.5	3
55	Diastereoselective and regioselective reactions on D-aldopentose mixtures: A possible reason for nature's choice of D-ribofuranose based nucleic acids?. *Bioorganic and Medicinal Chemistry Letters*, **1997**, 7, 1999-2002	2.9	3
54	Dual-probe system using pyrenylmethyl-modified amino-LNA for mismatch detection. *Nucleosides, Nucleotides and Nucleic Acids*, **2007**, 26, 1261-3	1.4	3
53	Synthesis of 2'-spiro ribo- and arabinonucleosides. *Nucleosides, Nucleotides and Nucleic Acids*, **2003**, 22, 1313-5	1.4	3
52	Chemistry of locked nucleic acids (LNA): Design, synthesis, and bio-physical properties. *International Journal of Peptide Research and Therapeutics*, **2003**, 10, 237-253		3
51	Improved synthesis of 2'-amino-LNA. *Nucleosides, Nucleotides and Nucleic Acids*, **2003**, 22, 1131-3	1.4	3
50	Evaluation of oligonucleotides containing two novel 2'-O-methyl modified nucleotide monomers: a 3'-C-allyl and a 2'-O,3'-C-linked bicyclic derivative. *Nucleosides & Nucleotides*, **1999**, 18, 2017-30		3
49	New Strategies in the Synthesis of 3?-Azido-2?,3?-dideoxy-nucleosides with Furanose Configuration. *Nucleosides & Nucleotides*, **1991**, 10, 405-408		3
48	Palmitoylated phosphodiester gapmer designs with albumin binding capacity and maintained in vitro gene silencing activity. *Journal of Gene Medicine*, **2018**, 20, e3025	3.5	3
47	The ability of locked nucleic acid oligonucleotides to pre-structure the double helix: A molecular simulation and binding study. *PLoS ONE*, **2019**, 14, e0211651	3.7	2
46	Electrochemical intercalator binding to single- and double-strand DNA- and LNA-based molecules on Au(111)-electrode surfaces. *Journal of Electroanalytical Chemistry*, **2020**, 865, 114138	4.1	2
45	Synthesis and biophysical properties of oligodeoxynucleotides containing 2'-deoxy-5-(4-nitro-1H-imidazol-1-yl)-beta-D-uridine and 2'-deoxy-5-(1,3-dioxo-1H-benzo[de]isoquinolin-2(3H)-yl)-beta-D-uridine monomers. *Chemistry and Biodiversity*, **2010**, 7, 350-62	2.5	2
44	New conformationally restricted DNA mimics. *Nucleic Acids Symposium Series*, **2008**, 271-2		2
43	Thermodynamic, counterion and hydration effects for the incorporation of locked nucleic acid (LNA) nucleotides in duplex. *Nucleic Acids Symposium Series*, **2008**, 425-6		2
42	Novel selective biocatalytic deacylation studies on key precursors for bicyclonucleosides. *Nucleosides, Nucleotides and Nucleic Acids*, **2007**, 26, 1517-21	1.4	2
41	Synthesis and Thermal Denaturation Studies of Conformationally Restricted 3?-C-Ethynyl-3?-O,4?-C-methyleneribonucleotides. *European Journal of Organic Chemistry*, **2005**, 2005, 5184-5188	3.2	2
40	Evaluation of Oligonucleotides with Novel Modifications. *Nucleosides, Nucleotides and Nucleic Acids*, **1995**, 14, 1097-1100	1.4	2

39	3?-C-Hydroxymethylthymidine: Synthesis and Incorporation into Oligodeoxynucleotide Analogues. *Nucleosides, Nucleotides and Nucleic Acids*, **1995**, 14, 921-924	1.4	2
38	Synthesis and Characterization of Short Oligonucleotide Segments Containing Nonnatural Internucleoside Amine- and Amide Linkages. *Nucleosides, Nucleotides and Nucleic Acids*, **1995**, 14, 925-928	1.4	2
37	Towards 2?,3?-dideoxynucleoside libraries: synthesis of 3?-alkylthio analogues from an α,β-unsaturated aldehyde. *Tetrahedron Letters*, **1996**, 37, 7619-7622	2	2
36	Enzymatic synthesis of LNA oligonucleotides using polymerases **2008**,		2
35	Gapmer Antisense Oligonucleotides Containing 2’,3’-Dideoxy-2’-fluoro-3’-C-hydroxymethyl-β-d-lyxofuranosyl Nucleotides Display Site-Specific RNase H Cleavage and Induce Gene Silencing. *Chemistry - A European Journal*, **2020**, 26, 1368-1379	4.8	2
34	Systemic Evaluation of Chimeric LNA/2’-O-Methyl Steric Blockers for Myotonic Dystrophy Type 1 Therapy. *Nucleic Acid Therapeutics*, **2020**, 30, 80-93	4.8	2
33	Oligonucleotides Targeting DNA Repeats Downregulate Gene Expression in Huntington’s Patient-Derived Neural Model System. *Nucleic Acid Therapeutics*, **2021**,	4.8	2
32	Synthetic, Structural, and Anticancer Activity Evaluation Studies on Novel Pyrazolylnucleosides. *Molecules*, **2019**, 24,	4.8	1
31	Greener biocatalytic approach to the synthesis of nucleosides and their precursors. *Nucleic Acids Symposium Series*, **2008**, 273-4		1
30	Synthesis of a 2’-amino-alpha-1-LNA-T phosphoramidite. *Nucleosides, Nucleotides and Nucleic Acids*, **2005**, 24, 1101-4	1.4	1
29	Synthesis of a base-protected alpha-L-LNA guanine nucleoside. *Nucleosides, Nucleotides and Nucleic Acids*, **2003**, 22, 1155-7	1.4	1
28	A New Synthetic Approach Towards α- and β-LNA (Locked Nucleic Acids). *Nucleosides & Nucleotides*, **1999**, 18, 701-702		1
27	Synthesis of 1-(3-(1,2,4-triazol-1-yl)-2,3,6-trideoxy-L-arabino-hexofuranosyl)uracils via an α,β-unsaturated aldehydrohexose. *Monatshefte Für Chemie*, **1992**, 123, 349-354	1.4	1
26	Syntiiesis of New 3?-Amino-2?,3?-Dideoxynucleosides in Five Steps Starting from Peracetylated Clycals. *Nucleosides, Nucleotides and Nucleic Acids*, **1989**, 8, 961-965	1.4	1
25	Chirality transmission in macromolecular domains.. *Nature Communications*, **2022**, 13, 76	17.4	1
24	Synthesis and anti-inflammatory activity evaluation of novel chroman derivatives. *New Journal of Chemistry*, **2020**, 44, 13716-13727	3.6	1
23	Carbazole modified oligonucleotides: synthesis, hybridization studies and fluorescence properties. *Organic and Biomolecular Chemistry*, **2020**, 18, 6935-6948	3.9	1
22	Polyamine-Functionalized 2’-Amino-LNA in Oligonucleotides: Facile Synthesis of New Monomers and High-Affinity Binding towards ssDNA and dsDNA. *Chemistry - A European Journal*, **2021**, 27, 1416-1422	4.8	1

21	Unlocked nucleic acid modified primer-based enzymatic polymerization assay: towards allele-specific genotype detection of human platelet antigens.. *RSC Advances*, **2018**, 8, 32770-32774	3.7	1
20	Albumin-Binding Fatty Acid-Modified Gapmer Antisense Oligonucleotides for Modulation of Pharmacokinetics. *Methods in Molecular Biology*, **2020**, 2176, 163-174	1.4	1
19	Synthesis of Novel 3?-C-Hydroxymethyl Nucleosides by a Convergent Strategy. *Nucleosides & Nucleotides*, **1997**, 16, 1063-1066		0
18	Aryl-beta-C-LNA monomers as universal hybridization probes. *Nucleosides, Nucleotides and Nucleic Acids*, **2003**, 22, 1317-9	1.4	0
17	Synthesis of a base-protected xylo-LNA adenine nucleoside. *Nucleosides, Nucleotides and Nucleic Acids*, **2003**, 22, 1163-5	1.4	0
16	Synthesis and hybridization properties of oligodeoxynucleotides containing 3'-deoxy-3'-C-methyleneuridine. *Nucleosides, Nucleotides and Nucleic Acids*, **2003**, 22, 1159-61	1.4	0
15	Synthesis of an asymmetrically substituted AZA crown ether as metal and amino acid binding site in DNA conjugates. *Nucleosides, Nucleotides and Nucleic Acids*, **2003**, 22, 1039-40	1.4	0
14	Cationic oligonucleotide derivatives and conjugates: A favorable approach for enhanced DNA and RNA targeting oligonucleotides. *Beilstein Journal of Organic Chemistry*, **2021**, 17, 1828-1848	2.5	0
13	Functionalization of 2?-C-(Piperazinomethyl)-2?,3?-BcNA (Bicyclic Nucleic Acids) with Pyren-1-ylcarbonyl Units. *Helvetica Chimica Acta*, **2014**, 97, 1204-1218	2	
12	A Chemical Perspective on Transcriptional Fidelity: Dominant Contributions of Sugar Integrity Revealed by Unlocked Nucleic Acids. *Angewandte Chemie*, **2013**, 125, 12567-12571	3.6	
11	Locked Nucleic Acid Oligonucleotides toward Clinical Applications **2011**, 335-348		
10	Synthesis and Evaluation of Novel Oligodeoxynucleotides Containing 3?-C-(3-Benzoyloxypropyl)thymidine and Bicyclo Nucleoside Derivatives. *Nucleosides & Nucleotides*, **1997**, 16, 1439-1442		
9	Nucleosides with 1,4-dioxane as sugar moiety. *Nucleic Acids Symposium Series*, **2008**, 269-70		
8	Locked Nucleic Acids: Properties, Applications, and Perspectives133-152		
7	Chemistry of locked nucleic acids (LNA): Design, synthesis, and bio-physical properties. *International Journal of Peptide Research and Therapeutics*, **2005**, 10, 237-253	2.1	
6	2,3-Dideoxy-3-Phthalimidopentoses in the Synthesis of 3?-Amino-2?,3?-Dideoxynucleosides. *Nucleosides, Nucleotides and Nucleic Acids*, **1989**, 8, 1069-1070	1.4	
5	Chemistry of Locked Nucleic Acids (LNA) **2006**, 114-132		
4	Antisense locked nucleic acid gapmers to control Candida albicans filamentation. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2022**, 39, 102469	6	

3	Novel assemblies based on oligonucleotides containing intercalating nucleic acid monomers. *Nucleosides, Nucleotides and Nucleic Acids*, **2020**, 39, 82-96	1.4
2	Reprint of "Electrochemical intercalator binding to single- and double-strand DNA- and LNA-based molecules on Au(111)-electrode surfaces". *Journal of Electroanalytical Chemistry*, **2020**, 872, 114527	4.1
1	Locked nucleic acids: Properties and applications **2021**, 339-347	