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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.

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

381	Locked nucleic acid: a potent nucleic acid analog in therapeutics and biotechnology. <i>Oligonucleotides</i> , 2004 , 14, 130-46		162
380	Improved silencing properties using small internally segmented interfering RNAs. <i>Nucleic Acids Research</i> , 2007 , 35, 5886-97	20.1	156
379	Structural studies of LNA:RNA duplexes by NMR: conformations and implications for RNase H activity. <i>Chemistry - A European Journal</i> , 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. <i>Nucleic Acids Research</i> , 2010 , 38, 5761-73	20.1	139
377	Thermodynamic, counterion, and hydration effects for the incorporation of locked nucleic acid nucleotides into DNA duplexes. <i>Biochemistry</i> , 2006 , 45, 7347-55	3.2	139
376	Improved thrombin binding aptamer by incorporation of a single unlocked nucleic acid monomer. <i>Nucleic Acids Research</i> , 2011 , 39, 1155-64	20.1	130
375	alpha-L-ribo-configured locked nucleic acid (alpha-L-LNA): synthesis and properties. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2164-76	16.4	129
374	Multilabeled pyrene-functionalized 2'-amino-LNA probes for nucleic acid detection in homogeneous fluorescence assays. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13293-9	16.4	124
373	Synthesis of 2'-Amino-LNA: A Novel Conformationally Restricted High-Affinity Oligonucleotide Analogue with a Handle. <i>Journal of Organic Chemistry</i> , 1998 , 63, 10035-10039	4.2	121
372	Novel convenient syntheses of LNA [2.2.1]bicyclo nucleosides. <i>Tetrahedron Letters</i> , 1998 , 39, 4381-4384	2	119
371	Inhibition of HIV-1 Tat-dependent trans activation by steric block chimeric 2'-O-methyl/LNA oligoribonucleotides. <i>Biochemistry</i> , 2001 , 40, 14645-54	3.2	118
370	LNAzymes: incorporation of LNA-type monomers into DNAzymes markedly increases RNA cleavage. <i>Journal of the American Chemical Society</i> , 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. <i>Bioconjugate Chemistry</i> , 2000 , 11, 228-38	6.3	96
368	Locked nucleic acid as a novel class of therapeutic agents. <i>RNA Biology</i> , 2009 , 6, 321-3	4.8	94
367	UNA (unlocked nucleic acid): a flexible RNA mimic that allows engineering of nucleic acid duplex stability. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 5420-5	3.4	94
366	Polyphenols and alkaloids from piper species. <i>Phytochemistry</i> , 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	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. <i>Chemical Communications</i> , 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. <i>Bioconjugate Chemistry</i> , 2004 , 15, 449-57	6.3	86
362	Bicyclic nucleosides and conformational restriction of oligonucleotides. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000 , 3539-3554		85
361	Utilization of unlocked nucleic acid (UNA) to enhance siRNA performance in vitro and in vivo. <i>Molecular BioSystems</i> , 2010 , 6, 862-70		84
360	Synthesis and evaluation of oligodeoxynucleotides containing acyclic nucleosides: introduction of three novel analogues and a summary. <i>Bioorganic and Medicinal Chemistry</i> , 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. <i>Chemical Communications</i> , 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. <i>Biochemical Journal</i> , 2001 , 354, 481-484	3.8	76
357	Biological activity and biotechnological aspects of locked nucleic acids. <i>Advances in Genetics</i> , 2013 , 82, 47-107	3.3	75
356	Universality of LNA-mediated high-affinity nucleic acid recognition. <i>Chemical Communications</i> , 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. <i>Bioorganic and Medicinal Chemistry</i> , 1998 , 6, 833-9	3.4	74
354	Polymerase chain reaction and transcription using locked nucleic acid nucleotide triphosphates. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8124-5	16.4	73
353	Synthesis of Novel Bicyclo[2.2.1] Ribonucleosides: 2'-Amino- and 2'-Thio-LNA Monomeric Nucleosides. <i>Journal of Organic Chemistry</i> , 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. <i>Biochemistry</i> , 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. <i>Nucleic Acids Research</i> , 2013 , 41, 9524-36	20.1	64
350	The solution structure of a locked nucleic acid (LNA) hybridized to DNA. <i>Journal of Biomolecular Structure and Dynamics</i> , 1999 , 17, 175-91	3.6	63
349	Enzymatic incorporation of LNA nucleotides into DNA strands. <i>ChemBioChem</i> , 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. <i>Biochemical Journal</i> , 2001 , 354, 481-4	3.8	60
347	Highly fluorescent conjugated pyrenes in nucleic acid probes: (phenylethynyl)pyrenecarbonyl-functionalized locked nucleic acids. <i>Chemistry - A European Journal</i> , 2008 , 14, 11010-26	4.8	58
346	Effective modulation of DNA duplex stability by reversible transition metal complex formation in the minor groove. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9392-400	16.4	57

345	Locked nucleic acid (LNA): High affinity targeting of RNA for diagnostics and therapeutics. <i>Drug Discovery Today: Technologies</i> , 2005 , 2, 287-90	7.1	57
344	By-product formation in repetitive PCR amplification of DNA libraries during SELEX. <i>PLoS ONE</i> , 2014 , 9, e114693	3.7	57
343	Scaffolding along nucleic acid duplexes using 2'-amino-locked nucleic acids. <i>Accounts of Chemical Research</i> , 2014 , 47, 1768-77	24.3	56
342	A Novel Class of Oligonucleotide Analogues Containing 2EO,3EC-Linked [3.2.0]Bicycloarabinonucleoside Monomers: Synthesis, Thermal Affinity Studies, and Molecular Modeling. <i>Journal of the American Chemical Society</i> , 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). <i>Chemical Communications</i> , 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. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2001 , 20, 389-96	1.4	51
339	Brightness through local constraint--LNA-enhanced FIT hybridization probes for in vivo ribonucleotide particle tracking. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11370-5	16.4	50
338	Novel linear and branched oligodeoxynucleotide analogues containing 4?-c-(hydroxymethyl)thymidine. <i>Tetrahedron</i> , 1995 , 51, 10389-10402	2.4	50
337	Locked nucleic acid nucleoside triphosphates and polymerases: on the way towards evolution of LNA aptamers. <i>Molecular BioSystems</i> , 2009 , 5, 787-92		49
336	Efficient enzymatic synthesis of LNA-modified DNA duplexes using KOD DNA polymerase. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 1404-9	3.9	48
335	Anti-invasive activity of alkaloids and polyphenolics in vitro. <i>Bioorganic and Medicinal Chemistry</i> , 1997 , 5, 1609-19	3.4	48
334	Pyrene-perylene as a FRET pair coupled to the N2'-functionality of 2'-amino-LNA. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 94-9	3.4	48
333	A Convenient Route to 3?-Amino-3?-deoxythymidine. <i>Synthesis</i> , 1989 , 1989, 384-387	2.9	48
332	Unlocked nucleic acid--an RNA modification with broad potential. <i>Organic and Biomolecular Chemistry</i> , 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. <i>Bioorganic and Medicinal Chemistry</i> , 1998 , 6, 1895-904	3.4	47
330	Synthesis of 2?-O,3?-C-linked bicyclic nucleosides and bicyclic oligonucleotides. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 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. <i>ChemBioChem</i> , 2007 , 8, 1122-5	3.8	46
328	Targeting of mixed sequence double-stranded DNA using pyrene-functionalized 2'-amino-alpha-L-LNA. <i>Chemical Communications</i> , 2005 , 4279-81	5.8	46

327	Naked siRNA-mediated gene silencing of lung bronchoepithelium EGFP expression after intravenous administration. <i>Oligonucleotides</i> , 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. <i>Bioconjugate Chemistry</i> , 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. <i>Retrovirology</i> , 2007 , 4, 29	3.6	45
324	Synthesis of Novel 2',3'-Linked Bicyclic Thymine Ribonucleosides. <i>Journal of Organic Chemistry</i> , 1998 , 63, 2778-2781	4.2	45
323	Thermodynamics of RNA duplexes modified with unlocked nucleic acid nucleotides. <i>Nucleic Acids Research</i> , 2010 , 38, 6697-706	20.1	44
322	Aptamers as a model for functional evaluation of LNA and 2'-amino LNA. <i>Bioorganic and Medicinal Chemistry Letters</i> , 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. <i>Biochemistry</i> , 2008 , 47, 1218-27	3.2	44
320	Functionalized 2'-amino-alpha-L-LNA: directed positioning of intercalators for DNA targeting. <i>Journal of Organic Chemistry</i> , 2009 , 74, 1070-81	4.2	43
319	Novel chemoselective de-esterification of esters of polyacetoxo aromatic acids by lipases. <i>Tetrahedron</i> , 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. <i>Chemistry - A European Journal</i> , 2002 , 8, 3001-9	4.8	42
317	Synthesis of 2'-amino-LNA: a new strategy. <i>Organic and Biomolecular Chemistry</i> , 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. <i>Chemical Communications</i> , 2001 , 651-652	5.8	40
315	alpha-L-LNA (alpha-L-ribo configured locked nucleic acid) recognition of RNA. A study by NMR spectroscopy and molecular dynamics simulations. <i>Journal of the American Chemical Society</i> , 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. <i>Bioorganic and Medicinal Chemistry</i> , 1999 , 7, 369-73	3.4	40
313	Synthesis and hybridization studies of 2'-amino-alpha-L-LNA and tetracyclic "locked LNA". <i>Journal of Organic Chemistry</i> , 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. <i>Journal of Organic Chemistry</i> , 2000 , 65, 5167-76	4.2	39
311	Structural basis of cleavage by RNase H of hybrids of arabinonucleic acids and RNA. <i>Biochemistry</i> , 2000 , 39, 3525-32	3.2	39
310	Synthesis of 3'-C-(Hydroxymethyl)thymidine: Introduction of a Novel Class of Deoxynucleosides and Oligodeoxynucleotides. <i>Journal of the American Chemical Society</i> , 1994 , 116, 2231-2232	16.4	39

309	Targeting VEGF with LNA-stabilized G-rich oligonucleotide for efficient breast cancer inhibition. <i>Chemical Communications</i> , 2015 , 51, 9499-502	5.8	38
308	Synthesis of L-3'-azido-3'-deoxythymidine (L-AZT) and its stereoisomers. <i>Journal of Organic Chemistry</i> , 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. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 4739-45	3.4	37
306	LNA (locked nucleic acid) and analogs as triplex-forming oligonucleotides. <i>Organic and Biomolecular Chemistry</i> , 2007 , 5, 2375-9	3.9	37
305	Oligonucleotide analogue interference with the HIV-1 Tat protein-TAR RNA interaction. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 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). <i>Chemical Communications</i> , 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. <i>Tetrahedron Letters</i> , 1995 , 36, 6163-6166 ²		36
302	Oligodeoxynucleotide analogues containing 3'-deoxy-3'-C-threo-hydroxymethylthymidine: Synthesis, hybridization properties and enzymatic stability. <i>Tetrahedron</i> , 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. <i>Journal of Controlled Release</i> , 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. <i>Chemistry - A European Journal</i> , 2013 , 19, 1112-22	4.8	35
299	Functionalization of 2'-amino-LNA with additional nucleobases. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 1793-7	3.9	35
298	The sugar conformation governs (6-4) photoproduct formation at the dinucleotide level. <i>Journal of the American Chemical Society</i> , 2008 , 130, 30-1	16.4	35
297	Nucleic acid structural engineering using pyrene-functionalized 2'-amino-alpha-L-LNA monomers and abasic sites. <i>Journal of Organic Chemistry</i> , 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. <i>Oligonucleotides</i> , 2003 , 13, 435-53		35
295	Antisense molecules and furanose conformations: Is it really that simple?. <i>Chemical Communications</i> , 2001 , 1419-1424	5.8	35
294	LNA-antisense rivals siRNA for gene silencing. <i>Current Opinion in Drug Discovery & Development</i> , 2004 , 7, 188-94		35
293	Sensitive SNP dual-probe assays based on pyrene-functionalized 2'-amino-LNA: lessons to be learned. <i>ChemBioChem</i> , 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. <i>Chemical Communications</i> , 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. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 2885-7	3.9	34
290	Exploring cellular activity of locked nucleic acid-modified triplex-forming oligonucleotides and defining its molecular basis. <i>Journal of Biological Chemistry</i> , 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. <i>Perkin Transactions II RSC</i> , 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. <i>Artificial DNA, PNA & XNA</i> , 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. <i>Bioorganic and Medicinal Chemistry</i> , 2000 , 8, 1707-12	3.4	33
286	Incorporation of (R)- and (S)-3',4'-seco-thymidine into oligodeoxynucleotides: hybridization properties and enzymatic stability. <i>Nucleic Acids Research</i> , 1994 , 22, 703-10	20.1	33
285	Hybridization-based detection of <i>Helicobacter pylori</i> at human body temperature using advanced locked nucleic acid (LNA) probes. <i>PLoS ONE</i> , 2013 , 8, e81230	3.7	32
284	Amino acids attached to 2'-amino-LNA: synthesis and excellent duplex stability. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 243-52	3.9	32
283	Neolignans and alkaloids from <i>Piper argyrophyllum</i> . <i>Phytochemistry</i> , 1996 , 43, 1355-1360	4	32
282	Peptide-oligonucleotide conjugates as nanoscale building blocks for assembly of an artificial three-helix protein mimic. <i>Nature Communications</i> , 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. <i>Molecular BioSystems</i> , 2009 , 5, 838-43		31
280	Selection of LNA-containing DNA aptamers against recombinant human CD73. <i>Molecular BioSystems</i> , 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. <i>Journal of Organic Chemistry</i> , 2013 , 78, 9560-70	4.2	30
278	Modulation of i-motif thermodynamic stability by the introduction of UNA (unlocked nucleic acid) monomers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 752-5	2.9	30
277	Locked nucleic acid and aptamers. <i>Nucleic Acid Therapeutics</i> , 2012 , 22, 366-70	4.8	30
276	Splice-switching efficiency and specificity for oligonucleotides with locked nucleic acid monomers. <i>Biochemical Journal</i> , 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. <i>Nucleic Acids Research</i> , 2005 , 33, 4223-34	20.1	30
274	Enzyme-Mediated Protecting Group Chemistry on the Hydroxyl Groups of Nucleosides. <i>Nucleosides & Nucleotides</i> , 1996 , 15, 1347-1359		30

273	Optimized DNA targeting using N,N-bis(2-pyridylmethyl)-beta-alanyl 2'-amino-LNA. <i>Chemical Communications</i> , 2005 , 1705-7	5.8	29
272	Locked nucleoside analogues expand the potential of DNAzymes to cleave structured RNA targets. <i>BMC Molecular Biology</i> , 2006 , 7, 19	4.5	29
271	Lna (Locked Nucleic Acid). <i>Nucleosides & Nucleotides</i> , 1999 , 18, 1365-1370		29
270	Splice-correcting oligonucleotides restore BTK function in X-linked agammaglobulinemia model. <i>Journal of Clinical Investigation</i> , 2014 , 124, 4067-81	15.9	29
269	Modular Assembly of Cell-targeting Devices Based on an Uncommon G-quadruplex Aptamer. <i>Molecular Therapy - Nucleic Acids</i> , 2015 , 4, e251	10.7	28
268	Thermodynamic, Anticoagulant, and Antiproliferative Properties of Thrombin Binding Aptamer Containing Novel UNA Derivative. <i>Molecular Therapy - Nucleic Acids</i> , 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. <i>Chemical Communications</i> , 2010 , 46, 8362-4	5.8	28
266	In vitro incorporation of LNA nucleotides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 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. <i>Bioorganic and Medicinal Chemistry</i> , 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. <i>Bioorganic and Medicinal Chemistry</i> , 1998 , 6, 2205-12	3.4	27
263	Investigations toward new lead compounds from medicinally important plants. <i>Pure and Applied Chemistry</i> , 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. <i>Nucleic Acids Research</i> , 2004 , 32, 1874-85	20.1	27
261	Chemistry of locked nucleic acids (LNA): Design, synthesis, and bio-physical properties. <i>International Journal of Peptide Research and Therapeutics</i> , 2003 , 10, 237-253	2.1	27
260	Improved RNA cleavage by LNAzyme derivatives of DNAzymes. <i>Biochemical Society Transactions</i> , 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. <i>Journal of Organic Chemistry</i> , 2001 , 66, 5106-12	4.2	27
258	Fatty Acid-Modified Gapmer Antisense Oligonucleotide and Serum Albumin Constructs for Pharmacokinetic Modulation. <i>Molecular Therapy</i> , 2017 , 25, 1710-1717	11.7	26
257	Efficient reverse transcription using locked nucleic acid nucleotides towards the evolution of nuclease resistant RNA aptamers. <i>PLoS ONE</i> , 2012 , 7, e35990	3.7	25
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