Jesper Wengel

List of Publications by Year in Descending Order

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

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	Chirality transmission in macromolecular domains.. *Nature Communications*, **2022**, 13, 76	17.4	1
397	Antisense locked nucleic acid gapmers to control Candida albicans filamentation. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2022**, 39, 102469	6	
396	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
395	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
394	Locked nucleic acids: properties and applications **2021**, 339-347		
393	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
392	Oligonucleotides Targeting DNA Repeats Downregulate Gene Expression in Huntington's Patient-Derived Neural Model System. *Nucleic Acid Therapeutics*, **2021**,	4.8	2
391	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
390	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
389	Alpha-l-Locked Nucleic Acid-Modified Antisense Oligonucleotides Induce Efficient Splice Modulation In Vitro. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
388	Novel assemblies based on oligonucleotides containing intercalating nucleic acid monomers. *Nucleosides, Nucleotides and Nucleic Acids*, **2020**, 39, 82-96	1.4	
387	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
386	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
385	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
384	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	
383	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
382	Synthesis and anti-inflammatory activity evaluation of novel chroman derivatives. *New Journal of Chemistry*, **2020**, 44, 13716-13727	3.6	1

381	Improved Cancer Targeting by Multimerizing Aptamers on Nanoscaffolds. *Molecular Therapy - Nucleic Acids*, **2020**, 22, 994-1003	10.7	4
380	Carbazole modified oligonucleotides: synthesis, hybridization studies and fluorescence properties. *Organic and Biomolecular Chemistry*, **2020**, 18, 6935-6948	3.9	1
379	Albumin-Binding Fatty Acid-Modified Gapmer Antisense Oligonucleotides for Modulation of Pharmacokinetics. *Methods in Molecular Biology*, **2020**, 2176, 163-174	1.4	1
378	Molecular determinants for agonist recognition and discrimination in P2X2 receptors. *Journal of General Physiology*, **2019**, 151, 898-911	3.4	5
377	A self-assembled, modular nucleic acid-based nanoscaffold for multivalent theranostic medicine. *Theranostics*, **2019**, 9, 2662-2677	12.1	7
376	microRNA-155 inhibition restores Fibroblast Growth Factor 7 expression in diabetic skin and decreases wound inflammation. *Scientific Reports*, **2019**, 9, 5836	4.9	24
375	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
374	Improved RE31 Analogues Containing Modified Nucleic Acid Monomers: Thermodynamic, Structural, and Biological Effects. *Journal of Medicinal Chemistry*, **2019**, 62, 2499-2507	8.3	16
373	Synthetic, Structural, and Anticancer Activity Evaluation Studies on Novel Pyrazolylnucleosides. *Molecules*, **2019**, 24,	4.8	1
372	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
371	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
370	Novel conformationally constrained 2'-C-methylribonucleosides: synthesis and incorporation into oligonucleotides. *Organic and Biomolecular Chemistry*, **2018**, 16, 1312-1321	3.9	6
369	Thermodynamic, Anticoagulant, and Antiproliferative Properties of Thrombin Binding Aptamer Containing Novel UNA Derivative. *Molecular Therapy - Nucleic Acids*, **2018**, 10, 304-316	10.7	28
368	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
367	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
366	Targeting miR-9 in gastric cancer cells using locked nucleic acid oligonucleotides. *BMC Molecular Biology*, **2018**, 19, 6	4.5	12
365	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
364	Modification of oligodeoxynucleotides by on-column Suzuki cross-coupling reactions. *Chemical Communications*, **2018**, 54, 8003-8006	5.8	8

363	Development of an Efficient G-Quadruplex-Stabilised Thrombin-Binding Aptamer Containing a Three-Carbon Spacer Molecule. *ChemBioChem*, **2017**, 18, 755-763	3.8	22
362	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
361	Role of Pseudoisocytidine Tautomerization in Triplex-Forming Oligonucleotides: In Silico and in Vitro Studies. *ACS Omega*, **2017**, 2, 2165-2177	3.9	7
360	CTG repeat-targeting oligonucleotides for down-regulating Huntingtin expression. *Nucleic Acids Research*, **2017**, 45, 5153-5169	20.1	15
359	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
358	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
357	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
356	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
355	LNA effects on DNA binding and conformation: from single strand to duplex and triplex structures. *Scientific Reports*, **2017**, 7, 11043	4.9	18
354	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
353	Fatty Acid-Modified Gapmer Antisense Oligonucleotide and Serum Albumin Constructs for Pharmacokinetic Modulation. *Molecular Therapy*, **2017**, 25, 1710-1717	11.7	26
352	Synthesis and Excellent Duplex Stability of Oligonucleotides Containing 2'-Amino-LNA Functionalized with Galactose Units. *Molecules*, **2017**, 22,	4.8	3
351	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
350	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
349	Peptide-oligonucleotide conjugates as nanoscale building blocks for assembly of an artificial three-helix protein mimic. *Nature Communications*, **2016**, 7, 12294	17.4	31
348	Application of locked nucleic acid-based probes in fluorescence in situ hybridization. *Applied Microbiology and Biotechnology*, **2016**, 100, 5897-906	5.7	15
347	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
346	Delivery, Effect on Cell Viability, and Plasticity of Modified Aptamer Constructs. *Nucleic Acid Therapeutics*, **2016**, 26, 183-9	4.8	7

345	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
344	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
343	Mismatch discrimination in fluorescent in situ hybridization using different types of nucleic acids. *Applied Microbiology and Biotechnology*, **2015**, 99, 3961-9	5.7	23
342	Selection of LNA-containing DNA aptamers against recombinant human CD73. *Molecular BioSystems*, **2015**, 11, 1260-70		30
341	Targeting VEGF with LNA-stabilized G-rich oligonucleotide for efficient breast cancer inhibition. *Chemical Communications*, **2015**, 51, 9499-502	5.8	38
340	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
339	Modular Assembly of Cell-targeting Devices Based on an Uncommon G-quadruplex Aptamer. *Molecular Therapy - Nucleic Acids*, **2015**, 4, e251	10.7	28
338	Watson-Crick hydrogen bonding of unlocked nucleic acids. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 5064-6	2.9	5
337	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
336	Effect of Native Gastric Mucus on in vivo Hybridization Therapies Directed at Helicobacter pylori. *Molecular Therapy - Nucleic Acids*, **2015**, 4, e269	10.7	8
335	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
334	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
333	Bis-pyrene-modified unlocked nucleic acids: synthesis, hybridization studies, and fluorescent properties. *ChemMedChem*, **2014**, 9, 2120-7	3.7	7
332	Functionalization of 2?-C-(Piperazinomethyl)-2?,3?-BcNA (Bicyclic Nucleic Acids) with Pyren-1-ylcarbonyl Units. *Helvetica Chimica Acta*, **2014**, 97, 1204-1218	2	
331	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
330	Scaffolding along nucleic acid duplexes using 2'-amino-locked nucleic acids. *Accounts of Chemical Research*, **2014**, 47, 1768-77	24.3	56
329	Improvement of a streptavidin-binding aptamer by LNA- and α-LNA-substitutions. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 2273-7	2.9	12
328	Helligkeit durch lokale Rigidifizierung: LNA-verstärkte FIT-Sonden zur bildgebenden Darstellung von Ribonukleotidpartikeln in vivo. *Angewandte Chemie*, **2014**, 126, 11553-11558	3.6	8

327	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
326	Multifunctional nucleic acids for tumor cell treatment. *Nucleic Acid Therapeutics*, **2014**, 24, 171-7	4.8	20
325	Splice-correcting oligonucleotides restore BTK function in X-linked agammaglobulinemia model. *Journal of Clinical Investigation*, **2014**, 124, 4067-81	15.9	29
324	By-product formation in repetitive PCR amplification of DNA libraries during SELEX. *PLoS ONE*, **2014**, 9, e114693	3.7	57
323	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
322	Electrochemistry of single metalloprotein and DNA-based molecules at Au(111) electrode surfaces. *ChemPhysChem*, **2013**, 14, 2101-11	3.2	18
321	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
320	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
319	"Clickable" LNA/DNA probes for fluorescence sensing of nucleic acids and autoimmune antibodies. *Chemical Communications*, **2013**, 49, 10751-3	5.8	24
318	A Chemical Perspective on Transcriptional Fidelity: Dominant Contributions of Sugar Integrity Revealed by Unlocked Nucleic Acids. *Angewandte Chemie*, **2013**, 125, 12567-12571	3.6	
317	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
316	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
315	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
314	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
313	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
312	Biological activity and biotechnological aspects of locked nucleic acids. *Advances in Genetics*, **2013**, 82, 47-107	3.3	75
311	Chemical fidelity of an RNA polymerase ribozyme. *Chemical Science*, **2013**, 4, 2804	9.4	22
310	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

309	Peptide-LNA oligonucleotide conjugates. *Organic and Biomolecular Chemistry*, **2013**, 11, 4240-9	3.9	20
308	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
307	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
306	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
305	Enzymatic polymerisation involving 2'-amino-LNA nucleotides. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 3522-6	2.9	11
304	Pyrene-modified unlocked nucleic acids: synthesis, thermodynamic studies, and fluorescent properties. *ChemBioChem*, **2012**, 13, 590-601	3.8	18
303	Oligonucleotides with 1,4-dioxane-based nucleotide monomers. *Journal of Organic Chemistry*, **2012**, 77, 3878-86	4.2	6
302	Cleavage and protection of locked nucleic acid-modified DNA by restriction endonucleases. *Bioorganic and Medicinal Chemistry Letters*, **2012**, 22, 4836-8	2.9	7
301	Photoinduzierter reduktiver Elektronentransfer in LNA:DNA-Hybriden: Kompromiss aus Konformation und Basenstapelung. *Angewandte Chemie*, **2012**, 124, 10168-10172	3.6	6
300	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
299	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
298	Large scale synthesis of 2'-amino-LNA thymine and 5-methylcytosine nucleosides. *Journal of Organic Chemistry*, **2012**, 77, 10718-28	4.2	15
297	Stepping towards highly flexible aptamers: enzymatic recognition studies of unlocked nucleic acid nucleotides. *Chemical Communications*, **2012**, 48, 5503-5	5.8	9
296	Efficient reverse transcription using locked nucleic acid nucleotides towards the evolution of nuclease resistant RNA aptamers. *PLoS ONE*, **2012**, 7, e35990	3.7	25
295	Amplification and re-generation of LNA-modified libraries. *Molecules*, **2012**, 17, 13087-97	4.8	8
294	Synthetic genetic polymers capable of heredity and evolution. *Science*, **2012**, 336, 341-4	33.3	515
293	Novel (phenylethynyl)pyrene-LNA constructs for fluorescence SNP sensing in polymorphic nucleic acid targets. *ChemBioChem*, **2012**, 13, 1509-19	3.8	24
292	Enzymatic synthesis of DNA strands containing L-LNA (L-configured locked nucleic acid) thymine nucleotides. *Artificial DNA, PNA & XNA*, **2012**, 3, 14-21		8

291	Locked nucleic acid and aptamers. *Nucleic Acid Therapeutics*, **2012**, 22, 366-70	4.8	30
290	Modulating Anti-MicroRNA-21 Activity and Specificity Using Oligonucleotide Derivatives and Length Optimization. *ISRN Pharmaceutics*, **2012**, 2012, 407154		7
289	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
288	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
287	Amino acids attached to 2'-amino-LNA: synthesis and excellent duplex stability. *Organic and Biomolecular Chemistry*, **2011**, 9, 243-52	3.9	32
286	Unlocked nucleic acid--an RNA modification with broad potential. *Organic and Biomolecular Chemistry*, **2011**, 9, 3591-7	3.9	47
285	Photoligation of self-assembled DNA constructs containing anthracene-functionalized 2'-amino-LNA monomers. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 7407-15	3.4	11
284	LNA for optimization of fluorescent oligonucleotide probes: improved spectral properties and target binding. *Bioconjugate Chemistry*, **2011**, 22, 533-9	6.3	23
283	Minimal substrate features for Erm methyltransferases defined by using a combinatorial oligonucleotide library. *ChemBioChem*, **2011**, 12, 610-4	3.8	5
282	Synthesis and structural characterization of 2'-fluoro-L-RNA-modified oligonucleotides. *ChemBioChem*, **2011**, 12, 1904-11	3.8	7
281	Locked Nucleic Acid Oligonucleotides toward Clinical Applications **2011**, 335-348		
280	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
279	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
278	Improved thrombin binding aptamer by incorporation of a single unlocked nucleic acid monomer. *Nucleic Acids Research*, **2011**, 39, 1155-64	20.1	130
277	Optimizing anti-gene oligonucleotide 'Zorro-LNA' for improved strand invasion into duplex DNA. *Nucleic Acids Research*, **2011**, 39, 1142-54	20.1	23
276	Fluorescent oligonucleotides containing a novel perylene 2?-amino-L-LNA monomer: Synthesis and analytical potential. *Collection of Czechoslovak Chemical Communications*, **2011**, 76, 1347-1360		6
275	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
274	Thermodynamics of RNA duplexes modified with unlocked nucleic acid nucleotides. *Nucleic Acids Research*, **2010**, 38, 6697-706	20.1	44

273	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
272	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
271	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
270	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
269	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
268	LNA 5'-phosphoramidites for 5'-B'-oligonucleotide synthesis. *Organic and Biomolecular Chemistry*, **2010**, 8, 5012-6	3.9	8
267	Biocatalytic separation of N-7/N-9 guanine nucleosides. *Journal of Organic Chemistry*, **2010**, 75, 7932-5	4.2	12
266	Polymerase-directed synthesis of C5-ethynyl locked nucleic acids. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 6565-8	2.9	21
265	Utilization of unlocked nucleic acid (UNA) to enhance siRNA performance in vitro and in vivo. *Molecular BioSystems*, **2010**, 6, 862-70		84
264	David versus Goliath. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2010**, 6, 504-9	6	3
263	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
262	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
261	Locked nucleic acids: promising nucleic acid analogs for therapeutic applications. *Chemistry and Biodiversity*, **2010**, 7, 536-42	2.5	189
260	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
259	Neolignans, cyclohexanes and alkaloids from Piper wightii. *Recueil Des Travaux Chimiques Des Pays-Bas*, **2010**, 115, 9-12		8
258	Locked nucleic acid as a novel class of therapeutic agents. *RNA Biology*, **2009**, 6, 321-3	4.8	94
257	Nuclease resistant methylphosphonate-DNA/LNA chimeric oligonucleotides. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 2707-9	2.9	10
256	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

255	Parallel RNA-strand recognition by 2'-amino-beta-L-LNA. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 2396-9	2.9	6
254	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
253	Naked siLNA-mediated gene silencing of lung bronchoepithelium EGFP expression after intravenous administration. *Oligonucleotides*, **2009**, 19, 163-8		45
252	Functionalized 2'-amino-alpha-L-LNA: directed positioning of intercalators for DNA targeting. *Journal of Organic Chemistry*, **2009**, 74, 1070-81	4.2	43
251	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
250	Locked nucleic acid nucleoside triphosphates and polymerases: on the way towards evolution of LNA aptamers. *Molecular BioSystems*, **2009**, 5, 787-92		49
249	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
248	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
247	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
246	Efficient enzymatic synthesis of LNA-modified DNA duplexes using KOD DNA polymerase. *Organic and Biomolecular Chemistry*, **2009**, 7, 1404-9	3.9	48
245	Functionalization of 2'-amino-LNA with additional nucleobases. *Organic and Biomolecular Chemistry*, **2009**, 7, 1793-7	3.9	35
244	Synthesis and hybridization studies of alpha-configured arabino nucleic acids. *Organic and Biomolecular Chemistry*, **2009**, 7, 2389-401	3.9	6
243	Design of LNA-modified siRNAs against the highly structured 5' UTR of coxsackievirus B3. *FEBS Letters*, **2008**, 582, 3061-6	3.8	16
242	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
241	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
240	Polymerase chain reaction and transcription using locked nucleic acid nucleotide triphosphates. *Journal of the American Chemical Society*, **2008**, 130, 8124-5	16.4	73
239	Identification of efficient and sequence specific bimolecular artificial ribonucleases by a combinatorial approach. *Chemical Communications*, **2008**, 762-4	5.8	10
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