

Tom Brown

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5524599/tom-brown-publications-by-year.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

383 papers	15,319 citations	62 h-index	105 g-index
425 ext. papers	16,493 ext. citations	9.6 avg, IF	6.57 L-index

#	Paper	IF	Citations
383	Chirality transmission in macromolecular domains.. <i>Nature Communications</i> , 2022 , 13, 76	17.4	1
382	"Split-and-Click" sgRNA. <i>Methods in Molecular Biology</i> , 2021 , 2162, 61-78	1.4	
381	Structure-Based Design of Selective Fat Mass and Obesity Associated Protein (FTO) Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 16609-16625	8.3	2
380	Chemically modified nucleic acids and DNA intercalators as tools for nanoparticle assembly. <i>Chemical Society Reviews</i> , 2021 , 50, 13410-13440	58.5	3
379	A Click Chemistry Approach to Targeted DNA Crosslinking with cis-Platinum(II)-Modified Triplex-Forming Oligonucleotides. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	2
378	Mismatch detection in homologous strand exchange amplified by hydrophobic effects. <i>Biopolymers</i> , 2021 , 112, e23426	2.2	0
377	Enrichment of Skeletal Stem Cells from Human Bone Marrow Using Spherical Nucleic Acids. <i>ACS Nano</i> , 2021 , 15, 6909-6916	16.7	3
376	DNA-Targeted Metallodrugs: An Untapped Source of Artificial Gene Editing Technology. <i>ChemBioChem</i> , 2021 , 22, 2184-2205	3.8	1
375	DNA Gold Nanoparticle Motors Demonstrate Processive Motion with Bursts of Speed Up to 50 nm Per Second. <i>ACS Nano</i> , 2021 , 15, 8427-8438	16.7	8
374	Artificial nucleic acid backbones and their applications in therapeutics, synthetic biology and biotechnology. <i>Emerging Topics in Life Sciences</i> , 2021 , 5, 691-697	3.5	3
373	Nanopore sequencing of single-cell transcriptomes with scCOLOR-seq. <i>Nature Biotechnology</i> , 2021 ,	44.5	10
372	A Hitchhiker's Guide to Click-Chemistry with Nucleic Acids. <i>Chemical Reviews</i> , 2021 , 121, 7122-7154	68.1	40
371	High-resolution targeted 3C interrogation of cis-regulatory element organization at genome-wide scale. <i>Nature Communications</i> , 2021 , 12, 531	17.4	8
370	INSIGHT: A population-scale COVID-19 testing strategy combining point-of-care diagnosis with centralized high-throughput sequencing. <i>Science Advances</i> , 2021 , 7,	14.3	22
369	A DNA sensor based on upconversion nanoparticles and two-dimensional dichalcogenide materials. <i>Frontiers of Chemical Science and Engineering</i> , 2021 , 15, 935-943	4.5	3
368	Expanding the chemical functionality of DNA nanomaterials generated by rolling circle amplification. <i>Nucleic Acids Research</i> , 2021 , 49, 9042-9052	20.1	2
367	A New 1,5-Disubstituted Triazole DNA Backbone Mimic with Enhanced Polymerase Compatibility. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16293-16301	16.4	2

366	Squaramides and Ureas: A Flexible Approach to Polymerase-Compatible Nucleic Acid Assembly. <i>Angewandte Chemie</i> , 2020 , 132, 11513-11519	3.6	1
365	Dynamics of the 4D genome during in vivo lineage specification and differentiation. <i>Nature Communications</i> , 2020 , 11, 2722	17.4	39
364	Direct Detection and Discrimination of Nucleotide Polymorphisms Using Anthraquinone Labeled DNA Probes. <i>Frontiers in Chemistry</i> , 2020 , 8, 381	5	3
363	2Palkynyl spin-labelling is a minimally perturbing tool for DNA structural analysis. <i>Nucleic Acids Research</i> , 2020 , 48, 2830-2840	20.1	3
362	Squaramides and Ureas: A Flexible Approach to Polymerase-Compatible Nucleic Acid Assembly. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11416-11422	16.4	6
361	Getting DNA and RNA out of the dark with 2CNqA: a bright adenine analogue and interbase FRET donor. <i>Nucleic Acids Research</i> , 2020 , 48, 7640-7652	20.1	10
360	DNA Structural Changes Induced by Intermolecular Triple Helix Formation. <i>ACS Omega</i> , 2020 , 5, 1679-1687	3.7	3
359	Lighting Up DNA with the Environment-Sensitive Bright Adenine Analogue qAN4. <i>ChemPlusChem</i> , 2020 , 85, 319-326	2.8	3
358	Molecular flexibility of DNA as a key determinant of RAD51 recruitment. <i>EMBO Journal</i> , 2020 , 39, e103003	3.7	5
357	Stability of the different arms of a DNA tetrahedron and its interaction with a minor groove ligand. <i>Biophysical Chemistry</i> , 2020 , 256, 106270	3.5	3
356	Oxidative DNA Cleavage with Clip-Phenanthroline Triplex-Forming Oligonucleotide Hybrids. <i>ChemBioChem</i> , 2020 , 21, 991-1000	3.8	7
355	Searching for the ideal triazole: Investigating the 1,5-triazole as a charge neutral DNA backbone mimic. <i>Tetrahedron</i> , 2020 , 76, 130914	2.4	5
354	Strict conformational demands of RNA cleavage in bulge-loops created by peptidyl-oligonucleotide conjugates. <i>Nucleic Acids Research</i> , 2020 , 48, 10662-10679	20.1	4
353	An In-labelled bis-ruthenium(ii) dipyridophenazine theranostic complex: mismatch DNA binding and selective radiotoxicity towards MMR-deficient cancer cells. <i>Chemical Science</i> , 2020 , 11, 8936-8944	9.4	6
352	Development of Gene-Targeted Polypyridyl Triplex-Forming Oligonucleotide Hybrids. <i>ChemBioChem</i> , 2020 , 21, 3563-3574	3.8	6
351	Melting temperature measurement and mesoscopic evaluation of single, double and triple DNA mismatches. <i>Chemical Science</i> , 2020 , 11, 8273-8287	9.4	12
350	Using antibodies to control DNA-templated chemical reactions. <i>Nature Communications</i> , 2020 , 11, 6242	17.4	6
349	Advances and challenges in epigenomic single-cell sequencing applications. <i>Current Opinion in Chemical Biology</i> , 2020 , 57, 17-26	9.7	10

348	Consecutive 5P and 3Pamide linkages stabilise antisense oligonucleotides and elicit an efficient RNase H response. <i>Chemical Communications</i> , 2020 , 56, 5496-5499	5.8	6
347	Optimised oligonucleotide substrates to assay XPF-ERCC1 nuclease activity for the discovery of DNA repair inhibitors. <i>Chemical Communications</i> , 2019 , 55, 11671-11674	5.8	2
346	Design of thiazole orange oligonucleotide probes for detection of DNA and RNA by fluorescence and duplex melting. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 5943-5950	3.9	14
345	Curtailing their negativity. <i>Nature Chemistry</i> , 2019 , 11, 501-503	17.6	1
344	Synthesis and biophysical properties of carbamate-locked nucleic acid (LNA) oligonucleotides with potential antisense applications. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 5341-5348	3.9	7
343	Light-Induced Reversible DNA Ligation of Gold Nanoparticle Superlattices. <i>ACS Nano</i> , 2019 , 13, 5771-5776	16.7	18
342	An artificial triazole backbone linkage provides a split-and-click strategy to bioactive chemically modified CRISPR sgRNA. <i>Nature Communications</i> , 2019 , 10, 1610	17.4	31
341	A hydroxamic-acid-containing nucleoside inhibits DNA repair nuclease SNM1A. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 8094-8105	3.9	8
340	Radiolabeled Oligonucleotides Targeting the RNA Subunit of Telomerase Inhibit Telomerase and Induce DNA Damage in Telomerase-Positive Cancer Cells. <i>Cancer Research</i> , 2019 , 79, 4627-4637	10.1	8
339	DNA-Coated Gold Nanoparticles for the Detection of mRNA in Live Hydra Vulgaris Animals. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13905-13911	9.5	15
338	Sensing of Vimentin mRNA in 2D and 3D Models of Wounded Skin Using DNA-Coated Gold Nanoparticles. <i>Small</i> , 2018 , 14, e1703489	11	19
337	Spectroscopic and Hydrodynamic Characterisation of DNA-Linked Gold Nanoparticle Dimers in Solution using Two-Photon Photoluminescence. <i>ChemPhysChem</i> , 2018 , 19, 827-836	3.2	4
336	Pentacyclic adenine: a versatile and exceptionally bright fluorescent DNA base analogue. <i>Chemical Science</i> , 2018 , 9, 3494-3502	9.4	28
335	Di-copper metallodrugs promote NCI-60 chemotherapy via singlet oxygen and superoxide production with tandem TA/TA and AT/AT oligonucleotide discrimination. <i>Nucleic Acids Research</i> , 2018 , 46, 2733-2750	20.1	29
334	Gene assembly via one-pot chemical ligation of DNA promoted by DNA nanostructures. <i>Chemical Communications</i> , 2018 , 54, 4529-4532	5.8	9
333	Redox Capacitive Assaying of C-Reactive Protein at a Peptide Supported Aptamer Interface. <i>Analytical Chemistry</i> , 2018 , 90, 3005-3008	7.8	44
332	Epigenetic Modifications of Cytosine: Biophysical Properties, Regulation, and Function in Mammalian DNA. <i>BioEssays</i> , 2018 , 40, 1700199	4.1	16
331	Multiplexed mRNA Sensing and Combinatorial-Targeted Drug Delivery Using DNA-Gold Nanoparticle Dimers. <i>ACS Nano</i> , 2018 , 12, 3333-3340	16.7	73

330	Fluorogenic thiazole orange TOTFO probes stabilise parallel DNA triplexes at pH 7 and above. <i>Chemical Science</i> , 2018 , 9, 7681-7687	9.4	16
329	Preparation and characterization of manganese, cobalt and zinc DNA nanoflowers with tuneable morphology, DNA content and size. <i>Nucleic Acids Research</i> , 2018 , 46, 7495-7505	20.1	18
328	Synthesis of Lipid-Carbohydrate-Peptidyl-RNA Conjugates to Explore the Limits Imposed by the Substrate Specificity of Cell Wall Enzymes on the Acquisition of Drug Resistance. <i>Chemistry - A European Journal</i> , 2018 , 24, 14911-14915	4.8	3
327	Enzyme-free synthesis of cyclic single-stranded DNA constructs containing a single triazole, amide or phosphoramidate backbone linkage and their use as templates for rolling circle amplification and nanoflower formation. <i>Chemical Science</i> , 2018 , 9, 8110-8120	9.4	17
326	Graphene Oxide-Upconversion Nanoparticle Based Portable Sensors for Assessing Nutritional Deficiencies in Crops. <i>ACS Nano</i> , 2018 , 12, 6273-6279	16.7	49
325	Replication Fork Reversal during DNA Interstrand Crosslink Repair Requires CMG Unloading. <i>Cell Reports</i> , 2018 , 23, 3419-3428	10.6	46
324	Chapter 1:DNA Recognition by Parallel Triplex Formation. <i>Chemical Biology</i> , 2018 , 1-32	0.4	7
323	Squaramide-Based 5PPhosphate Replacements Bind to the DNA Repair Exonuclease SNM1A. <i>ChemistrySelect</i> , 2018 , 3, 12824-12829	1.8	10
322	Synthesis, oligonucleotide incorporation and fluorescence properties in DNA of a bicyclic thymine analogue. <i>Scientific Reports</i> , 2018 , 8, 13970	4.9	7
321	NMR analyses on N-hydroxymethylated nucleobases - implications for formaldehyde toxicity and nucleic acid demethylases. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 4021-4032	3.9	21
320	Synthesis, Affinity for Complementary RNA and DNA, and Enzymatic Stability of Triazole-Linked Locked Nucleic Acids (t-LNAs). <i>ACS Omega</i> , 2018 , 3, 6976-6987	3.9	9
319	Molecular Requirements of High-Fidelity Replication-Competent DNA Backbones for Orthogonal Chemical Ligation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1575-1583	16.4	25
318	Nucleic Acid Labeling, Ligation, and Modification 2017 , 335-362		3
317	5-Formylcytosine does not change the global structure of DNA. <i>Nature Structural and Molecular Biology</i> , 2017 , 24, 544-552	17.6	35
316	Toward Complete Sequence Flexibility of Nucleic Acid Base Analogue FRET. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9271-9280	16.4	39
315	RPA activates the XPF-ERCC1 endonuclease to initiate processing of DNA interstrand crosslinks. <i>EMBO Journal</i> , 2017 , 36, 2047-2060	13	39
314	Graphene Oxide-Upconversion Nanoparticle Based Optical Sensors for Targeted Detection of mRNA Biomarkers Present in Alzheimer's Disease and Prostate Cancer. <i>ACS Sensors</i> , 2017 , 2, 52-56	9.2	85
313	CRISPRi is not strand-specific at all loci and redefines the transcriptional landscape. <i>ELife</i> , 2017 , 6,	8.9	19

312	Single tube gene synthesis by phosphoramidate chemical ligation. <i>Chemical Communications</i> , 2017 , 53, 10700-10702	5.8	17
311	Assembly of a biocompatible triazole-linked gene by one-pot click-DNA ligation. <i>Nature Chemistry</i> , 2017 , 9, 1089-1098	17.6	47
310	Modulation of Mitochondriotropic Properties of Cyanine Dyes by in Organello Copper-Free Click Reaction. <i>ChemBioChem</i> , 2017 , 18, 1814-1818	3.8	5
309	Site-selective immobilization of functionalized DNA origami on nanopatterned Teflon AF. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7637-7643	7.1	7
308	The Sedimentation of Colloidal Nanoparticles in Solution and Its Study Using Quantitative Digital Photography. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700095	3.1	18
307	Locked nucleic acid (LNA) enhances binding affinity of triazole-linked DNA towards RNA. <i>Chemical Communications</i> , 2017 , 53, 8910-8913	5.8	19
306	Investigating d-lysine stereochemistry for epigenetic methylation, demethylation and recognition. <i>Chemical Communications</i> , 2017 , 53, 13264-13267	5.8	16
305	Instrument-free quantitative gold nanoparticle-based liquid-phase colorimetric assays for use in resource-poor environments. <i>Chemical Communications</i> , 2017 , 53, 8407-8410	5.8	11
304	A stretched conformation of DNA with a biological role?. <i>Quarterly Reviews of Biophysics</i> , 2017 , 50, e11	7	15
303	Searching for avidity by chemical ligation of combinatorially self-assembled DNA-encoded ligand libraries. <i>Organic and Biomolecular Chemistry</i> , 2017 , 16, 48-52	3.9	
302	Specifically horizontally tethered DNA probes on Au surfaces allow labelled and label-free DNA detection using SERS and electrochemically driven melting. <i>Chemical Science</i> , 2016 , 7, 386-393	9.4	25
301	Selective killing of cells triggered by their mRNA signature in the presence of smart nanoparticles. <i>Nanoscale</i> , 2016 , 8, 16857-16861	7.7	11
300	Synthesis of chemically modified DNA. <i>Biochemical Society Transactions</i> , 2016 , 44, 709-15	5.1	14
299	2Palkynynucleotides: A Sequence- and Spin Label-Flexible Strategy for EPR Spectroscopy in DNA. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9069-72	16.4	24
298	Combination probes with intercalating anchors and proximal fluorophores for DNA and RNA detection. <i>Nucleic Acids Research</i> , 2016 , 44, e138	20.1	10
297	Electrophilic RNA for Peptidyl-RNA Synthesis and Site-Specific Cross-Linking with tRNA-Binding Enzymes. <i>Angewandte Chemie</i> , 2016 , 128, 13751-13755	3.6	7
296	Stabilisation of self-assembled DNA crystals by triplex-directed photo-cross-linking. <i>Chemical Communications</i> , 2016 , 52, 8014-7	5.8	30
295	Stable end-sealed DNA as robust nano-rulers for single-molecule fluorescence. <i>Chemical Science</i> , 2016 , 7, 4418-4422	9.4	6

294	Efficient enzymatic synthesis and dual-colour fluorescent labelling of DNA probes using long chain azido-dUTP and BCN dyes. <i>Nucleic Acids Research</i> , 2016 , 44, e79	20.1	28
293	New technologies for DNA analysis--a review of the READNA Project. <i>New Biotechnology</i> , 2016 , 33, 311-304	30.1	10
292	New two dimensional liquid-phase colorimetric assay based on old iodine-starch complexation for the naked-eye quantitative detection of analytes. <i>Chemical Communications</i> , 2016 , 52, 7454-7	5.8	14
291	An autonomous molecular assembler for programmable chemical synthesis. <i>Nature Chemistry</i> , 2016 , 8, 542-8	17.6	103
290	Electrophilic RNA for Peptidyl-RNA Synthesis and Site-Specific Cross-Linking with tRNA-Binding Enzymes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13553-13557	16.4	9
289	Azide and trans-cyclooctene dUTPs: incorporation into DNA probes and fluorescent click-labelling. <i>Analyst, The</i> , 2015 , 140, 2671-8	5	41
288	The effect of temperature on electrochemically driven denaturation monitored by SERS. <i>Bioelectrochemistry</i> , 2015 , 106, 353-8	5.6	8
287	Strain discrimination of using a SERS-based electrochemically driven melting curve analysis of variable number tandem repeat sequences. <i>Chemical Science</i> , 2015 , 6, 1846-1852	9.4	11
286	Reversible Ligation of Programmed DNA-Gold Nanoparticle Assemblies. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9242-5	16.4	27
285	The effect of sequence context on the activity of cytosine DNA glycosylases. <i>Molecular BioSystems</i> , 2015 , 11, 3273-8		
284	Programming the assembly of gold nanoparticles on graphene oxide sheets using DNA. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9379-9384	7.1	14
283	Synthesis and use of universal sequence probes in fluorogenic multi-strand hybridisation complexes for economical nucleic acid testing. <i>Molecular and Cellular Probes</i> , 2015 , 29, 228-36	3.3	3
282	A triazole linkage that mimics the DNA phosphodiester group in living systems. <i>Quarterly Reviews of Biophysics</i> , 2015 , 48, 429-36	7	9
281	Rapid detection of diagnostic targets using isothermal amplification and HyBeacon probes--a homogenous system for sequence-specific detection. <i>Molecular and Cellular Probes</i> , 2015 , 29, 92-8	3.3	11
280	Using surface-enhanced Raman spectroscopy and electrochemically driven melting to discriminate <i>Yersinia pestis</i> from <i>Y. pseudotuberculosis</i> based on single nucleotide polymorphisms within unpurified polymerase chain reaction amplicons. <i>Analytical Chemistry</i> , 2015 , 87, 1605-12	7.8	26
279	Reversible energy-transfer switching on a DNA scaffold. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2444-7	16.4	19
278	Highly Sensitive DNA Sensor Based on Upconversion Nanoparticles and Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12422-9	9.5	143
277	Structural insights into how 5-hydroxymethylation influences transcription factor binding. <i>Chemical Communications</i> , 2014 , 50, 1794-6	5.8	51

276	Combined nucleobase and backbone modifications enhance DNA duplex stability and preserve biocompatibility. <i>Chemical Science</i> , 2014 , 5, 253-259	9.4	26
275	Self-reporting hybridisation assay for miRNA analysis. <i>Analyst, The</i> , 2014 , 139, 1088-92	5	5
274	Reverse transcription through a bulky triazole linkage in RNA: implications for RNA sequencing. <i>Chemical Communications</i> , 2014 , 50, 7597-600	5.8	11
273	Triplex-mediated analysis of cytosine methylation at CpA sites in DNA. <i>Chemical Communications</i> , 2014 , 50, 551-3	5.8	9
272	Transcription of click-linked DNA in human cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2362-5	16.4	59
271	Enhanced H-bonding and π -stacking in DNA: a potent duplex-stabilizing and mismatch sensing nucleobase analogue. <i>Chemical Science</i> , 2014 , 5, 3836-3844	9.4	17
270	Enzymatic incorporation and fluorescent labelling of cyclooctyne-modified deoxyuridine triphosphates in DNA. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 4384-90	3.4	28
269	Transcription of Click-Linked DNA in Human Cells. <i>Angewandte Chemie</i> , 2014 , 126, 2394-2397	3.6	9
268	Functionalizing Designer DNA Crystals with a Triple-Helical Veneer. <i>Angewandte Chemie</i> , 2014 , 126, 4063-4063	15	
267	Innenrücktitelbild: Transcription of Click-Linked DNA in Human Cells (Angew. Chem. 9/2014). <i>Angewandte Chemie</i> , 2014 , 126, 2543-2543	3.6	1
266	A mutant of uracil DNA glycosylase that distinguishes between cytosine and 5-methylcytosine. <i>PLoS ONE</i> , 2014 , 9, e95394	3.7	3
265	Functionalizing designer DNA crystals with a triple-helical veneer. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3979-82	16.4	51
264	Force-induced melting of DNA--evidence for peeling and internal melting from force spectra on short synthetic duplex sequences. <i>Nucleic Acids Research</i> , 2014 , 42, 8083-91	20.1	18
263	Kinetics of diffusion-mediated DNA hybridization in lipid monolayer films determined by single-molecule fluorescence spectroscopy. <i>ACS Nano</i> , 2013 , 7, 308-15	16.7	9
262	Copper-free click chemistry as an emerging tool for the programmed ligation of DNA-functionalised gold nanoparticles. <i>Nanoscale</i> , 2013 , 5, 7209-12	7.7	48
261	Gold nanoparticles and fluorescently-labelled DNA as a platform for biological sensing. <i>Nanoscale</i> , 2013 , 5, 9503-10	7.7	50
260	Denaturation of dsDNA immobilised at a negatively charged gold electrode is not caused by electrostatic repulsion. <i>Chemical Science</i> , 2013 , 4, 1625	9.4	30
259	Non-covalent Single Transcription Factor Encapsulation Inside a DNA Cage. <i>Angewandte Chemie</i> , 2013 , 125, 2340-2344	3.6	7

258	The structure of FemX(Wv) in complex with a peptidyl-RNA conjugate: mechanism of aminoacyl transfer from Ala-tRNA(Ala) to peptidoglycan precursors. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7278-81	16.4	29
257	Use of a large Stokes-shift fluorophore to increase the multiplexing capacity of a point-of-care DNA diagnostic device. <i>Analyst, The</i> , 2013 , 138, 3626-8	5	3
256	Solid phase click ligation for the synthesis of very long oligonucleotides. <i>Chemical Communications</i> , 2013 , 49, 6959-61	5.8	31
255	Initial DNA interactions of the binuclear threading intercalator $[\text{Ir}(\text{bidppz}(\text{bipy})_4\text{Ru}_2)]^{4+}$: an NMR study with $[\text{d}(\text{CGCGAATTCGCG})]_2$. <i>Chemistry - A European Journal</i> , 2013 , 19, 5401-10	4.8	23
254	Non-covalent single transcription factor encapsulation inside a DNA cage. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2284-8	16.4	55
253	Efficient self-assembly of DNA-functionalized fluorophores and gold nanoparticles with DNA functionalized silicon surfaces: the effect of oligomer spacers. <i>Nucleic Acids Research</i> , 2013 , 41, e80	20.1	9
252	Measurement of a reaction-diffusion crossover in exciton-exciton recombination inside carbon nanotubes using femtosecond optical absorption. <i>Physical Review Letters</i> , 2013 , 111, 197401	7.4	23
251	The Structure of FemXWv in Complex with a Peptidyl-RNA Conjugate: Mechanism of Aminoacyl Transfer from Ala-tRNAAla to Peptidoglycan Precursors. <i>Angewandte Chemie</i> , 2013 , 125, 7419-7422	3.6	6
250	The effect of base-pair sequence on electrochemically driven denaturation. <i>Bioelectrochemistry</i> , 2012 , 85, 7-13	5.6	17
249	Click nucleic acid ligation: applications in biology and nanotechnology. <i>Accounts of Chemical Research</i> , 2012 , 45, 1258-67	24.3	155
248	A label-free, electrochemical SERS-based assay for detection of DNA hybridization and discrimination of mutations. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14099-107	16.4	86
247	Self reporting RNA probes as an alternative to cleavable small molecule mass tags. <i>Analyst, The</i> , 2012 , 137, 5817-22	5	3
246	Fast and efficient DNA crosslinking and multiple orthogonal labelling by copper-free click chemistry. <i>Chemical Communications</i> , 2012 , 48, 11184-6	5.8	54
245	Triplex-directed covalent cross-linking of a DNA nanostructure. <i>Chemical Communications</i> , 2012 , 48, 9592-4	3.4	16
244	CHAPTER 5:Click Chemistry as a Versatile Method for Nucleic Acid Labelling, Cyclisation and Ligation. <i>RSC Biomolecular Sciences</i> , 2012 , 119-139		2
243	A new modular approach to nanoassembly: stable and addressable DNA nanoconstructs via orthogonal click chemistries. <i>ACS Nano</i> , 2012 , 6, 9221-8	16.7	32
242	Efficient reverse click labeling of azide oligonucleotides with multiple alkynyl Cy-Dyes applied to the synthesis of HyBeacon probes for genetic analysis. <i>Tetrahedron</i> , 2012 , 68, 857-864	2.4	34
241	Real-time surface-enhanced Raman spectroscopy monitoring of surface pH during electrochemical melting of double-stranded DNA. <i>Langmuir</i> , 2012 , 28, 5464-70	4	16

240	Triplex-directed recognition of a DNA nanostructure assembled by crossover strand exchange. <i>ACS Nano</i> , 2012 , 6, 3604-13	16.7	30
239	Quadracyclic adenine: a non-perturbing fluorescent adenine analogue. <i>Chemistry - A European Journal</i> , 2012 , 18, 5987-97	4.8	33
238	Tension induces a base-paired overstretched DNA conformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15179-84	11.5	74
237	Secondary binding sites for heavily modified triplex forming oligonucleotides. <i>Nucleic Acids Research</i> , 2012 , 40, 3753-62	20.1	6
236	A highly fluorescent DNA toolkit: synthesis and properties of oligonucleotides containing new Cy3, Cy5 and Cy3B monomers. <i>Nucleic Acids Research</i> , 2012 , 40, e108	20.1	24
235	Assessing the biocompatibility of click-linked DNA in Escherichia coli. <i>Nucleic Acids Research</i> , 2012 , 40, 10567-75	20.1	44
234	Fast copper-free click DNA ligation by the ring-strain promoted alkyne-azide cycloaddition reaction. <i>Chemical Communications</i> , 2011 , 47, 6257-9	5.8	88
233	Discrimination against the cytosine analog tC by Escherichia coli DNA polymerase IV DinB. <i>Journal of Molecular Biology</i> , 2011 , 409, 89-100	6.5	12
232	Ultrasensitive fluorescence-based methods for nucleic acid detection: towards amplification-free genetic analysis. <i>Chemical Communications</i> , 2011 , 47, 3717-35	5.8	52
231	Rapid chemical ligation of oligonucleotides by the Diels-Alder reaction. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 232-5	3.9	29
230	Efficient RNA synthesis by in vitro transcription of a triazole-modified DNA template. <i>Chemical Communications</i> , 2011 , 47, 12057-8	5.8	47
229	Nanofabrication yields. Hybridization and click-fixation of polycyclic DNA nanoassemblies. <i>ACS Nano</i> , 2011 , 5, 7565-75	16.7	19
228	Self-assembled DNA-based fluorescence waveguide with selectable output. <i>Small</i> , 2011 , 7, 3178-85	11	35
227	2PAminoethoxy-2-amino-3-methylpyridine in triplex-forming oligonucleotides: high affinity, selectivity and resistance to enzymatic degradation. <i>Chemistry - A European Journal</i> , 2011 , 17, 14851-6	4.8	15
226	Structure and dynamics of triazole-linked DNA: biocompatibility explained. <i>Chemistry - A European Journal</i> , 2011 , 17, 14714-7	4.8	39
225	Hydroxylation of methylated CpG dinucleotides reverses stabilisation of DNA duplexes by cytosine 5-methylation. <i>Chemical Communications</i> , 2011 , 47, 5325-7	5.8	60
224	2?-Substituted 2-amino-3-methylpyridine ribonucleosides in triplex-forming oligonucleotides: triplex stability is determined by chemical environment. <i>MedChemComm</i> , 2011 , 2, 550	5	11
223	Membrane protrusion coarsening and nanotubulation within giant unilamellar vesicles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18046-9	16.4	10

222	Gauging the flexibility of fluorescent markers for the interpretation of fluorescence resonance energy transfer. <i>Journal of the American Chemical Society</i> , 2011 , 133, 279-85	16.4	18
221	Improved synthesis of 5-hydroxymethyl-2Pdeoxycytidine phosphoramidite using a 2Pdeoxyuridine to 2Pdeoxycytidine conversion without temporary protecting groups. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 1181-4	2.9	23
220	Biocompatible artificial DNA linker that is read through by DNA polymerases and is functional in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 11338-43	11.5	119
219	Formation of stable DNA triplexes. <i>Biochemical Society Transactions</i> , 2011 , 39, 629-34	5.1	47
218	PNA HyBeacons for analysis of human mutations related to statin-induced myopathy. <i>Artificial DNA, PNA & XNA</i> , 2011 , 2, 79-89		1
217	Characterization of photophysical and base-mimicking properties of a novel fluorescent adenine analogue in DNA. <i>Nucleic Acids Research</i> , 2011 , 39, 4513-24	20.1	41
216	Discrimination against the Fluorescent Cytosine Analog tC by Escherichia coli DNA Polymerase IV DinB. <i>FASEB Journal</i> , 2011 , 25, 880.11	0.9	
215	New strategy for the synthesis of chemically modified RNA constructs exemplified by hairpin and hammerhead ribozymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 15329-34	11.5	110
214	Peptide nucleic acid probes with charged photocleavable mass markers: Towards PNA-based MALDI-TOF MS genetic analysis. <i>Artificial DNA, PNA & XNA</i> , 2010 , 1, 27-35		3
213	Factors influencing hairpin oligonucleotide cyclization by the uncatalyzed alkyne-azide cycloaddition (AAC) reaction. <i>Pure and Applied Chemistry</i> , 2010 , 82, 1599-1607	2.1	8
212	The First All-Nucleobase Analog FRET Pair. <i>Biophysical Journal</i> , 2010 , 98, 582a	2.9	
211	Modulation of density and orientation of amphiphilic DNA on phospholipid membranes. II. Vesicles. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 7348-58	3.4	22
210	Modulation of density and orientation of amphiphilic DNA anchored to phospholipid membranes. I. Supported lipid bilayers. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 7338-47	3.4	33
209	Structural basis for the interaction of lactvicins with serine beta-lactamases. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 5890-4	8.3	16
208	Click chemistry with DNA. <i>Chemical Society Reviews</i> , 2010 , 39, 1388-405	58.5	601
207	End-capped HyBeacon probes for the analysis of human genetic polymorphisms related to warfarin metabolism. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 2728-34	3.9	7
206	Functionalized nanostructures: redox-active porphyrin anchors for supramolecular DNA assemblies. <i>ACS Nano</i> , 2010 , 4, 5037-46	16.7	43
205	A new fixation strategy for addressable nano-network building blocks. <i>Chemical Communications</i> , 2010 , 46, 3714-6	5.8	28

204	CG base pair recognition within DNA triple helices by modified N-methylpyrrolo-dC nucleosides. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 5087-96	3.9	23
203	Synthesis and properties of triplex-forming oligonucleotides containing 2PO-(2-methoxyethyl)-5-(3-aminoprop-1-ynyl)-uridine. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 6389-97	3.4	14
202	Six-colour HyBeacon probes for multiplex genetic analysis. <i>ChemBioChem</i> , 2010 , 11, 2530-3	3.8	25
201	Analysis of Short Tandem Repeats by Using SERS Monitoring and Electrochemical Melting. <i>Angewandte Chemie</i> , 2010 , 122, 6053-6056	3.6	4
200	Analysis of short tandem repeats by using SERS monitoring and electrochemical melting. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5917-20	16.4	18
199	Multi-modal particle manipulator to enhance bead-based bioassays. <i>Ultrasonics</i> , 2010 , 50, 235-9	3.5	8
198	Crystallographic and mass spectrometric analyses of a tandem GNAT protein from the clavulanic acid biosynthesis pathway. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 1398-407	4.2	12
197	DNA triplex formation with 5-dimethylaminopropargyl deoxyuridine. <i>Nucleic Acids Research</i> , 2009 , 37, 1288-96	20.1	19
196	Loosening the DNA wrapping around single-walled carbon nanotubes by increasing the strand length. <i>Nanotechnology</i> , 2009 , 20, 195603	3.4	14
195	Potent triple helix stabilization by 5P3Pmodified triplex-forming oligonucleotides. <i>ChemBioChem</i> , 2009 , 10, 1839-51	3.8	24
194	The Use of an Electroactive Marker as a SERS Label in an E-melting Mutation Discrimination Assay. <i>Electroanalysis</i> , 2009 , 21, 2190-2197	3	18
193	The stability of triplex DNA is affected by the stability of the underlying duplex. <i>Biophysical Chemistry</i> , 2009 , 145, 105-10	3.5	14
192	Thermodynamic Aspects of DNA Nanoconstruct Stability and Design. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5941-5946	3.8	12
191	Synthesis and polymerase chain reaction amplification of DNA strands containing an unnatural triazole linkage. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3958-64	16.4	95
190	Nucleic acid base analog FRET-pair facilitating detailed structural measurements in nucleic acid containing systems. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4288-93	16.4	145
189	Closed nanoconstructs assembled by step-by-step ss-DNA coupling assisted by phospholipid membranes. <i>Soft Matter</i> , 2009 , 5, 1639	3.6	27
188	Structural analysis of the DNA target site and its interaction with Mbp1. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 4981-91	3.9	6
187	Membrane-anchored DNA assembly for energy and electron transfer. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2831-9	16.4	44

186	Platform for controlled supramolecular nanoassembly. <i>Nano Letters</i> , 2009 , 9, 2482-6	11.5	18
185	Flexible acoustic particle manipulation device with integrated optical waveguide for enhanced microbead assays. <i>Analytical Sciences</i> , 2009 , 25, 285-91	1.7	28
184	DNA closed nanostructures: a structural and Monte Carlo simulation study. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 15283-94	3.4	19
183	Synthesis of alkyne- and azide-modified oligonucleotides and their cyclization by the CuAAC (click) reaction. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2008 , Chapter 4, Unit 4.33	0.5	3
182	SERS-melting: a new method for discriminating mutations in DNA sequences. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15589-601	16.4	151
181	Interrogation of short tandem repeats using fluorescent probes and melting curve analysis: a step towards rapid DNA identity screening. <i>Forensic Science International: Genetics</i> , 2008 , 2, 333-9	4.3	26
180	Rapid typing of STRs in the human genome by HyBeacon melting. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 4553-9	3.9	18
179	Kinetic studies on the formation of DNA triplexes containing the nucleoside analogue 2PO-(2-aminoethyl)-5-(3-amino-1-propynyl)uridine. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 122-9	3.9	17
178	DNA polymorphism as an origin of adenine-thymine tract length-dependent threading intercalation rate. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14651-8	16.4	28
177	Controlled release of chol-TEG-DNA from Nano- and micropatterned SU-8 surfaces by a spreading lipid film. <i>Nano Letters</i> , 2008 , 8, 227-31	11.5	18
176	Phospholipid membranes decorated by cholesterol-based oligonucleotides as soft hybrid nanostructures. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 10942-52	3.4	53
175	Characterization and use of an unprecedentedly bright and structurally non-perturbing fluorescent DNA base analogue. <i>Nucleic Acids Research</i> , 2008 , 36, 157-67	20.1	144
174	A membrane anchored DNA-based energy/electron transfer assembly. <i>Nucleic Acids Symposium Series</i> , 2008 , 691		
173	Characterization and use of tricyclic fluorescent nucleic acid base analogues. <i>Nucleic Acids Symposium Series</i> , 2008 , 3-4		1
172	Towards the Targeted Modulation of Gene Expression by Modified Triplex-Forming Oligonucleotides. <i>Current Chemical Biology</i> , 2008 , 2, 1-10	0.4	6
171	Synthesis, Serum Stability and Cell Uptake of Cyclic and Hairpin Decoy Oligonucleotides for TCF/LEF and GLI Transcription Factors. <i>International Journal of Peptide Research and Therapeutics</i> , 2008 , 14, 367-372	2.1	13
170	A very stable cyclic DNA miniduplex with just two base pairs. <i>ChemBioChem</i> , 2008 , 9, 50-2	3.8	56
169	Rapid and efficient DNA strand cross-linking by click chemistry. <i>ChemBioChem</i> , 2008 , 9, 1280-5	3.8	75

168	Binding of 14-3-3 proteins to a single stranded oligodeoxynucleotide aptamer. <i>Bioorganic Chemistry</i> , 2008 , 36, 215-9	5.1	11
167	Towards the Targeted Modulation of Gene Expression by Modified Triplex-Forming Oligonucleotides. <i>Current Chemical Biology</i> , 2008 , 2, 1-10	0.4	8
166	HyBeacon probes for rapid DNA sequence detection and allele discrimination. <i>Methods in Molecular Biology</i> , 2008 , 429, 171-85	1.4	6
165	Photoinduced crosslinking of double-helical DNA by psoralen covalently linked to a triple helix-forming oligonucleotide under near-physiological conditions. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007 , 26, 1005-9	1.4	4
164	Triplex addressability as a basis for functional DNA nanostructures. <i>Nano Letters</i> , 2007 , 7, 3832-9	11.5	54
163	Synthesis of anthraquinone oligonucleotides for triplex stabilization. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007 , 26, 921-5	1.4	7
162	Naphthalenyl- and anthracenyl-ethynyl dT analogues as base discriminating fluorescent nucleosides and intramolecular energy transfer donors in oligonucleotide probes. <i>Tetrahedron</i> , 2007 , 63, 3483-3490	2.4	51
161	Addressable high-information-density DNA nanostructures. <i>Chemical Physics Letters</i> , 2007 , 440, 125-129	2.5	51
160	Deuterated water as super solvent for short carbon nanotubes wrapped by DNA. <i>Carbon</i> , 2007 , 45, 2701-2703	12.0	8
159	Structural and mechanistic basis of penicillin-binding protein inhibition by lactvicins. <i>Nature Chemical Biology</i> , 2007 , 3, 565-9	11.7	51
158	Synthesis and oligonucleotide incorporation of fluorescent cytosine analogue tC: a promising nucleic acid probe. <i>Nature Protocols</i> , 2007 , 2, 615-23	18.8	32
157	Simultaneous MLPA-based multiplex point mutation and deletion analysis of the dystrophin gene. <i>Molecular Biotechnology</i> , 2007 , 35, 135-40	3	21
156	CG base pair recognition within DNA triple helices using N-methyl-3H-pyrrolo[2,3-d]pyrimidin-2(7H)-one nucleoside analogues. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007 , 26, 1363-7	1.4	11
155	2Po-dimethylaminoethoxyuridine and 5-dimethylaminopropargyl deoxyuridine for at base pair recognition in triple helices. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007 , 26, 1283-6	1.4	5
154	Synthesis and properties of oligonucleotides containing a cholesterol thymidine monomer. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2007 , 26, 785-94	1.4	11
153	Electrospray ionisation-cleavable tandem nucleic acid mass tag-peptide nucleic acid conjugates: synthesis and applications to quantitative genomic analysis using electrospray ionisation-MS/MS. <i>Nucleic Acids Research</i> , 2007 , 35, e28	20.1	11
152	Intramolecular DNA quadruplexes with different arrangements of short and long loops. <i>Nucleic Acids Research</i> , 2007 , 35, 4214-22	20.1	132
151	Sequence effects of single base loops in intramolecular quadruplex DNA. <i>FEBS Letters</i> , 2007 , 581, 1657-60	3.8	109

150	Template-directed oligonucleotide strand ligation, covalent intramolecular DNA circularization and catenation using click chemistry. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6859-64	16.4	231
149	A Raman probe for selective wrapping of single-walled carbon nanotubes by DNA. <i>Nanotechnology</i> , 2007 , 18, 405706	3.4	26
148	Rapid mass spectrometric identification of human genomic polymorphisms using multiplexed photocleavable mass-tagged probes and solid phase capture. <i>Organic and Biomolecular Chemistry</i> , 2007 , 5, 1878-85	3.9	12
147	Effect of G-tract length on the topology and stability of intramolecular DNA quadruplexes. <i>Biochemistry</i> , 2007 , 46, 3036-44	3.2	105
146	Triplex staples: DNA double-strand cross-linking at internal and terminal sites using psoralen-containing triplex-forming oligonucleotides. <i>Bioconjugate Chemistry</i> , 2006 , 17, 1561-7	6.3	27
145	HyBeacons [®] : A novel DNA probe chemistry for rapid genetic analysis. <i>International Congress Series</i> , 2006 , 1288, 707-709		2
144	DNA sequence recognition by an imidazole-containing isopropyl-substituted thiazole polyamide (thiazotropsin B). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 3469-74	2.9	13
143	DNA triple-helix formation at target sites containing duplex mismatches. <i>Biophysical Chemistry</i> , 2006 , 123, 134-40	3.5	11
142	Four base recognition by triplex-forming oligonucleotides at physiological pH. <i>Nucleic Acids Research</i> , 2005 , 33, 3025-32	20.1	127
141	Fluorescence based strategies for genetic analysis. <i>Chemical Communications</i> , 2005 , 5487-502	5.8	221
140	Recognition of CG inversions in DNA triple helices by methylated 3H-pyrrolo[2,3-d]pyrimidin-2(7H)-one nucleoside analogues. <i>Chemical Communications</i> , 2005 , 2555-7	5.8	38
139	Stable recognition of TA interruptions by triplex forming oligonucleotides containing a novel nucleoside. <i>Biochemistry</i> , 2005 , 44, 5884-92	3.2	39
138	Determining the origin of the stabilization of DNA by 5-aminopropynylation of pyrimidines. <i>Biochemistry</i> , 2005 , 44, 4710-9	3.2	13
137	Quenching of CdSe quantum dot emission, a new approach for biosensing. <i>Chemical Communications</i> , 2005 , 3201-3	5.8	179
136	Combining nucleoside analogues to achieve recognition of oligopurine tracts by triplex-forming oligonucleotides at physiological pH. <i>FEBS Letters</i> , 2005 , 579, 6616-20	3.8	17
135	Exceptionally slow kinetics of the intramolecular quadruplex formed by the Oxytricha telomeric repeat. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 4153-7	3.9	20
134	Synthesis and evaluation of a new non-fluorescent quencher in fluorogenic oligonucleotide probes for real-time PCR. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 2534-42	3.9	16
133	Genomic sequence correction by single-stranded DNA oligonucleotides: role of DNA synthesis and chemical modifications of the oligonucleotide ends. <i>Journal of Gene Medicine</i> , 2005 , 7, 1534-44	3.5	54

132	An extra dimension in nucleic acid sequence recognition. <i>Quarterly Reviews of Biophysics</i> , 2005 , 38, 311-20	45
131	Fluorescent properties of DNA base analogue tC upon incorporation into DNA--negligible influence of neighbouring bases on fluorescence quantum yield. <i>Nucleic Acids Research</i> , 2005 , 33, 5019-25	20.1 104
130	DNA adopts normal B-form upon incorporation of highly fluorescent DNA base analogue tC: NMR structure and UV-Vis spectroscopy characterization. <i>Nucleic Acids Research</i> , 2004 , 32, 5087-95	20.1 73
129	Selectivity and affinity of triplex-forming oligonucleotides containing 2Paminoethoxy-5-(3-aminoprop-1-ynyl)uridine for recognizing AT base pairs in duplex DNA. <i>Nucleic Acids Research</i> , 2004 , 32, 4439-47	20.1 33
128	DNA sequence recognition by an isopropyl substituted thiazole polyamide. <i>Nucleic Acids Research</i> , 2004 , 32, 3410-7	20.1 19
127	Photopatterning of DNA oligonucleotides on silicon surfaces with micron-scale dimensions 2004 ,	2
126	Submicron patterning of DNA oligonucleotides on silicon. <i>Nucleic Acids Research</i> , 2004 , 32, e118	20.1 27
125	Effects of a hairpin polyamide on DNA melting: comparison with distamycin and Hoechst 33258. <i>Biophysical Chemistry</i> , 2004 , 111, 205-12	3.5 10
124	An analogue of adenine that forms an "A:T" base pair of comparable stability to G:C. <i>Chemical Communications</i> , 2004 , 2208-9	5.8 9
123	Chemical modification and micropatterning of Si(1 0 0) with oligonucleotides. <i>Microelectronic Engineering</i> , 2004 , 73-74, 830-836	2.5 24
122	Crystal structure of the Escherichia coli dcm very-short-patch DNA repair endonuclease bound to its reaction product-site in a DNA superhelix. <i>Nucleic Acids Research</i> , 2003 , 31, 1633-9	20.1 19
121	Cleavage of fragments containing DNA mismatches by enzymic and chemical probes. <i>Biochemical Journal</i> , 2003 , 371, 697-708	3.8 13
120	Sequence-selective metalation of double-helical oligodeoxyribonucleotides with PtII, MnII, and ZnII ions. <i>Chemistry - A European Journal</i> , 2003 , 9, 1620-30	4.8 25
119	DNA sequence specificity of triplex-binding ligands. <i>FEBS Journal</i> , 2003 , 270, 4982-92	19
118	Novel photocleavable universal support for oligonucleotide synthesis. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003 , 22, 1403-6	1.4 7
117	Synthesis of fluorophore and quencher monomers for use in scorpion primers and nucleic acid structural probes. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 2267-75	3.9 30
116	Synthesis of HyBeacons and dual-labelled probes containing 2Pfluorescent groups for use in genetic analysis. <i>Chemical Communications</i> , 2003 , 1234-5	5.8 26
115	A new dark quencher for use in genetic analysis. <i>Chemical Communications</i> , 2003 , 970-1	5.8 13

114	The solution structure of a DNA*RNA duplex containing 5-propynyl U and C; comparison with 5-Me modifications. <i>Nucleic Acids Research</i> , 2003 , 31, 2683-93	20.1	27
113	Thermodynamic and kinetic stability of intermolecular triple helices containing different proportions of C+*GC and T*AT triplets. <i>Nucleic Acids Research</i> , 2003 , 31, 5598-606	20.1	54
112	First synthesis of 1-deazacytidine, the C-nucleoside analogue of cytidine. <i>Tetrahedron Letters</i> , 2002 , 43, 3121-3123	2	33
111	High throughput measurement of duplex, triplex and quadruplex melting curves using molecular beacons and a LightCycler. <i>Nucleic Acids Research</i> , 2002 , 30, e39	20.1	136
110	Stable DNA triple helix formation using oligonucleotides containing 2Paminoethoxy,5-propargylamino-U. <i>Biochemistry</i> , 2002 , 41, 7224-31	3.2	45
109	Intramolecular TaqMan probes for genetic analysis. <i>Chemical Communications</i> , 2002 , 2272-3	5.8	4
108	Affinity of mismatch-binding protein MutS for heteroduplexes containing different mismatches. <i>Biochemical Journal</i> , 2001 , 354, 627-633	3.8	69
107	Synthesis of a modified thymidine monomer for site-specific incorporation of reporter groups into oligonucleotides. <i>Tetrahedron Letters</i> , 2001 , 42, 2587-2591	2	14
106	[1H, 15N] NMR Studies of the Platination of Phosphorothioate Nucleotides [Monofunctional Sulfur Adducts versus Macrochelation. <i>European Journal of Inorganic Chemistry</i> , 2001 , 2001, 2743	2.3	5
105	Duplex Scorpion primers in SNP analysis and FRET applications. <i>Nucleic Acids Research</i> , 2001 , 29, E96	20.1	109
104	Novel method for detection, typing, and quantification of human papillomaviruses in clinical samples. <i>Journal of Clinical Microbiology</i> , 2001 , 39, 3204-12	9.7	33
103	HyBeacon probes: a new tool for DNA sequence detection and allele discrimination. <i>Molecular and Cellular Probes</i> , 2001 , 15, 363-74	3.3	85
102	Linear fluorescent oligonucleotide probes with an acridine quencher generate a signal upon hybridisation. <i>Chemical Communications</i> , 2001 , 1480-1481	5.8	20
101	Affinity of mismatch-binding protein MutS for heteroduplexes containing different mismatches. <i>Biochemical Journal</i> , 2001 , 354, 627-33	3.8	46
100	. <i>Chemistry - A European Journal</i> , 2000 , 6, 3636-3644	4.8	10
99	The mechanism of DNA repair by uracil-DNA glycosylase: studies using nucleotide analogues. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000 , 19, 1505-16	1.4	2
98	Recognition of GT mismatches by Vsr mismatch endonuclease. <i>Nucleic Acids Research</i> , 2000 , 28, 2535-40	20.1	18
97	Molecular beacons attached to glass beads fluoresce upon hybridisation to target DNA. <i>Chemical Communications</i> , 2000 , 621-622	5.8	22

96	Synthesis of a novel bis-amino-modified thymidinemonomer for use in DNA triplex stabilisation. <i>Chemical Communications</i> , 2000 , 2315-2316	5.8	13
95	Mode of action and application of Scorpion primers to mutation detection. <i>Nucleic Acids Research</i> , 2000 , 28, 3752-61	20.1	242
94	The crystal structure of the RNA/DNA hybrid r(GAAGAGAAGC). d(GCTTCTCTTC) shows significant differences to that found in solution. <i>Nucleic Acids Research</i> , 1999 , 27, 555-61	20.1	47
93	5-(1-propargylamino)-2Pdeoxyuridine (UP): a novel thymidine analogue for generating DNA triplexes with increased stability. <i>Nucleic Acids Research</i> , 1999 , 27, 1802-9	20.1	68
92	Detection of PCR products using self-probing amplicons and fluorescence. <i>Nature Biotechnology</i> , 1999 , 17, 804-7	44.5	596
91	Crystal structure of a thwarted mismatch glycosylase DNA repair complex. <i>EMBO Journal</i> , 1999 , 18, 6599-609	2.9	108
90	DNA triple helix stabilisation by covalent attachment of a triplex-specific ligand. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1999 , 1447, 137-45		9
89	Solution conformation of a parallel DNA triple helix with 5P and 3P triplex-duplex junctions. <i>Structure</i> , 1999 , 7, 1-11	5.2	56
88	Simplified sample preparation for the analysis of oligonucleotides by matrix-assisted laser desorption/ionisation time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1999 , 13, 1717-23	2.2	34
87	Ein neues Platin-Krebsmedikament bildet hochstereoselektiv ein Addukt mit Duplex-DNA. <i>Angewandte Chemie</i> , 1999 , 111, 2192-2196	3.6	2
86	A New Platinum Anticancer Drug Forms a Highly Stereoselective Adduct with Duplex DNA. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 2060-2063	16.4	32
85	Conformational and Thermodynamic Properties of Parallel Intramolecular Triple Helices Containing a DNA, RNA, or 2EOMeDNA Third Strand. <i>Journal of the American Chemical Society</i> , 1999 , 121, 11063-11070	16.4	49
84	DNA triple helix formation at target sites containing several pyrimidine interruptions: stabilization by protonated cytosine or 5-(1-propargylamino)dU. <i>Biochemistry</i> , 1999 , 38, 13747-58	3.2	24
83	Structure of a DNA base-excision product resembling a cisplatin inter-strand adduct. <i>Nature Structural and Molecular Biology</i> , 1998 , 5, 697-701	17.6	14
82	Crystal structure of an octameric RuvA-Holliday junction complex. <i>Molecular Cell</i> , 1998 , 2, 361-72	17.6	108
81	Crystal structure of a G:T/U mismatch-specific DNA glycosylase: mismatch recognition by complementary-strand interactions. <i>Cell</i> , 1998 , 92, 117-29	56.2	222
80	The contribution of cytosine protonation to the stability of parallel DNA triple helices. <i>Journal of Molecular Biology</i> , 1998 , 275, 811-22	6.5	135
79	A synthetic holliday junction is sandwiched between two tetrameric Mycobacterium leprae RuvA structures in solution: new insights from neutron scattering contrast variation and modelling. <i>Journal of Molecular Biology</i> , 1998 , 284, 385-400	6.5	17

78	DNA duplexes stabilized by modified monomer residues: synthesis and stability. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1998 , 1131-1138		55
77	Solution structures of DNA.RNA hybrids with purine-rich and pyrimidine-rich strands: comparison with the homologous DNA and RNA duplexes. <i>Biochemistry</i> , 1998 , 37, 73-80	3.2	101
76	Direct measurement of the substrate preference of uracil-DNA glycosylase. <i>Journal of Biological Chemistry</i> , 1998 , 273, 45-50	5.4	43
75	Comparison of the solution structures of intramolecular DNA triple helices containing adjacent and non-adjacent CG.C+ triplets. <i>Nucleic Acids Research</i> , 1998 , 26, 3677-86	20.1	23
74	A comparative study of digoxigenin, 2,4-dinitrophenyl, and alkaline phosphatase as deoxyoligonucleotide labels in non-radioisotopic in situ hybridisation. <i>Journal of Clinical Pathology</i> , 1997 , 50, 686-90	3.9	7
73	Hydrogen-Bonding Patterns Observed in the Base Pairs of Duplex Oligonucleotides. <i>ACS Symposium Series</i> , 1997 , 77-90	0.4	3
72	The dependence of DNase I activity on the conformation of oligodeoxynucleotides. <i>Biochemical Journal</i> , 1997 , 321 (Pt 2), 481-6	3.8	23
71	Solution conformation of an intramolecular DNA triplex containing a nonnucleotide linker: comparison with the DNA duplex. <i>Biochemistry</i> , 1997 , 36, 14502-11	3.2	38
70	Comparison of the electrophoretic and hydrodynamic properties of DNA and RNA oligonucleotide duplexes. <i>Biophysical Journal</i> , 1997 , 73, 1532-8	2.9	52
69	Interaction of oligonucleotide-conjugates with the dipeptide transporter system in Caco-2 cells. <i>Biochemical Pharmacology</i> , 1997 , 53, 1223-8	6	13
68	Coralyn has a preference for intercalation between TA.T triples in intramolecular DNA triple helices. <i>Nucleic Acids Research</i> , 1997 , 25, 1890-6	20.1	58
67	Non-Watson-Crick base associations in DNA and RNA revealed by single crystal x-ray diffraction methods: Mismatches, modified bases, and nonduplex DNA. <i>Biopolymers</i> , 1997 , 44, 91-103	2.2	23
66	Comparison of the thermodynamic stabilities and solution conformations of DNA.RNA hybrids containing purine-rich and pyrimidine-rich strands with DNA and RNA duplexes. <i>Biochemistry</i> , 1996 , 35, 12538-48	3.2	103
65	Synthesis and properties of DNA-PNA chimeric oligomers. <i>Nucleic Acids Research</i> , 1996 , 24, 3357-63	20.1	43
64	¹ H-NMR characterization of L-tryptophan binding to TRAP, the trp RNA-binding attenuation protein of <i>Bacillus subtilis</i> . <i>Biochemical Journal</i> , 1996 , 315 (Pt 3), 895-900	3.8	5
63	Hydration of the RNA duplex r(CGCAAUUUGCG) ₂ determined by NMR. <i>Nucleic Acids Research</i> , 1996 , 24, 3693-9	20.1	37
62	The structural basis of specific base-excision repair by uracil-DNA glycosylase. <i>Nature</i> , 1995 , 373, 487-93	50.4	377
61	Synthetic oligonucleotide cocktails as probes for detection of human parvovirus B19. <i>Journal of Virological Methods</i> , 1995 , 53, 91-102	2.6	14

60	Cholesteryl-conjugated phosphorothioate oligodeoxynucleotides modulate CYP2B1 expression in vivo. <i>Journal of Drug Targeting</i> , 1995 , 2, 477-85	5.4	35
59	Synthesis and Antibody Mediated Detection of 2,4-Dinitrophenyl (DNP) Labelled Oligonucleotides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 1995 , 14, 1049-1052	1.4	5
58	A trigonal form of the idarubicin:d(CGATCG) complex; crystal and molecular structure at 2.0 Å resolution. <i>Nucleic Acids Research</i> , 1995 , 23, 1710-6	20.1	22
57	Dot-blot hybridisation assay for detection of parvovirus B19 infections using synthetic oligonucleotides. <i>Molecular and Cellular Probes</i> , 1995 , 9, 59-65	3.3	4
56	Do C-H...O hydrogen bonds contribute to the stability of nucleic acid base pairs?. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1995 , 51, 136-9		66
55	Self-association of a DNA loop creates a quadruplex: crystal structure of d(GCATGCT) at 1.8 Å resolution. <i>Structure</i> , 1995 , 3, 335-40	5.2	66
54	Studies of the structure and stability of base pair mismatches, base pairs involving modified bases, and DNA-drug complexes. <i>Journal of Chemical Crystallography</i> , 1994 , 24, 5-15	0.5	
53	Crystal and molecular structure of r(CGCGAAUUAGCG): an RNA duplex containing two G(anti).A(anti) base pairs. <i>Structure</i> , 1994 , 2, 483-94	5.2	70
52	Thermodynamic stability and solution conformation of tandem G.A mismatches in RNA and RNA.DNA hybrid duplexes. <i>FEBS Journal</i> , 1994 , 220, 703-15		25
51	Properties of multiple G.A mismatches in stable oligonucleotide duplexes. <i>FEBS Journal</i> , 1994 , 220, 717-27		20
50	Crystal structure of a DNA duplex containing 8-hydroxydeoxyguanine-adenine base pairs. <i>Biochemistry</i> , 1994 , 33, 10266-70	3.2	210
49	Guanine-1,N6-ethenoadenine base pairs in the crystal structure of d(CGCGAATT(epsilon dA)GCG). <i>Biochemistry</i> , 1994 , 33, 4755-61	3.2	39
48	Detection of PCR products from Mycobacterium avium subspecies Paratuberculosis using oligonucleotides containing multiple 2,4-dinitrophenyl reporter groups. <i>Biomedical Peptides, Proteins & Nucleic Acids: Structure, Synthesis & Biological Activity</i> , 1994 , 1, 17-20		1
47	Branched poly-labelled oligonucleotides: enhanced specificity of fork-shaped biotinylated oligoribonucleotides for antisense affinity selection. <i>Nucleic Acids Research</i> , 1993 , 21, 4651-2	20.1	7
46	Synthesis and antibody-mediated detection of oligonucleotides containing multiple 2,4-dinitrophenyl reporter groups. <i>Nucleic Acids Research</i> , 1993 , 21, 1705-12	20.1	14
45	NMR assignments and solution conformation of the DNA.RNA hybrid duplex d(GTGAAGTT).r(AAGUUCAC). <i>FEBS Journal</i> , 1993 , 215, 297-306		49
44	The structure of an idarubicin-d(TGATCA) complex at high resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1993 , 49, 311-7		3
43	Anthracycline-DNA interactions at unfavourable base-pair triplet-binding sites: structures of d(CGGCCG)/daunomycin and d(TGGCCA)/adriamycin complexes. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1993 , 49, 458-67		26

42	The conformational variability of an adenosine.inosine base-pair in a synthetic DNA dodecamer. <i>Nucleic Acids Research</i> , 1992 , 20, 4753-9	20.1	37
41	The molecular structure of a 4Pepiadriamycin complex with d(TGATCA) at 1.7Å resolution: comparison with the structure of 4Pepiadriamycin d(TGTACA) and d(CGATCG) complexes. <i>Nucleic Acids Research</i> , 1992 , 20, 3561-6	20.1	30
40	Purification of synthetic DNA. <i>Methods in Enzymology</i> , 1992 , 211, 20-35	1.7	25
39	Solution conformation of a deoxynucleotide containing tandem G.A mismatched base pairs and 3Poverhanging ends in d(GTGAAGTT)2. <i>Biochemistry</i> , 1992 , 31, 12087-95	3.2	51
38	Conformational properties of the G.G mismatch in d(CGCGAATTGGCG)2 determined by NMR. <i>Biochemistry</i> , 1992 , 31, 5411-22	3.2	51
37	Barnase has subsites that give rise to large rate enhancements. <i>Biochemistry</i> , 1992 , 31, 6390-5	3.2	52
36	Very stable mismatch duplexes: structural and thermodynamic studies on tandem G.A mismatches in DNA. <i>Biochemistry</i> , 1992 , 31, 12083-6	3.2	57
35	Conformation of guanine-8-oxoadenine base pairs in the crystal structure of d(CGCGAATT(O8A)GCG). <i>Biochemistry</i> , 1992 , 31, 8415-20	3.2	51
34	Synthesis and physical properties of anti-HIV antisense oligonucleotides bearing terminal lipophilic groups. <i>Nucleic Acids Research</i> , 1992 , 20, 3411-7	20.1	121
33	Attachment of vitamin E derivatives to oligonucleotides during solid-phase synthesis. <i>Tetrahedron Letters</i> , 1992 , 33, 2729-2732	2	40
32	Anthracycline binding to DNA. High-resolution structure of d(TGTACA) complexed with 4Pepiadriamycin. <i>FEBS Journal</i> , 1992 , 204, 69-74		28
31	N.m.r. determination of the solution conformation and dynamics of the A.G mismatch in the d(CGCAAATTGGCG)2 dodecamer. <i>Biochemical Journal</i> , 1991 , 279 (Pt 1), 269-81	3.8	51
30	Synthesis of Base Modified Phosphorothioate Oligodeoxynucleotides as Inhibitors of HIV-1. <i>Nucleosides & Nucleotides</i> , 1991 , 10, 555-561		3
29	The synthesis of oligonucleotides that contain 2,4-dinitrophenyl reporter groups. <i>Carbohydrate Research</i> , 1991 , 216, 315-22	2.9	8
28	Interaction of berenil with the EcoRI dodecamer d(CGCGAATTCGCG)2 in solution studied by NMR. <i>Biochemistry</i> , 1991 , 30, 1372-85	3.2	108
27	High-resolution structure of a mutagenic lesion in DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 9573-6	11.5	90
26	Crystal structure of a berenil-dodecanucleotide complex: the role of water in sequence-specific ligand binding.. <i>EMBO Journal</i> , 1990 , 9, 1329-1334	13	86
25	Structural and thermodynamic studies on the adenine.guanine mismatch in B-DNA. <i>Nucleic Acids Research</i> , 1990 , 18, 5617-23	20.1	95

24	Influence of pH on the conformation and stability of mismatch base-pairs in DNA. <i>Journal of Molecular Biology</i> , 1990 , 212, 437-40	6.5	105
23	Refined crystal structure of an octanucleotide duplex with I.T. mismatched base pairs. <i>Nucleic Acids Research</i> , 1989 , 17, 55-72	20.1	49
22	Crystal structure and stability of a DNA duplex containing A(anti).G(syn) base-pairs. <i>Journal of Molecular Biology</i> , 1989 , 207, 455-7	6.5	115
21	A new base-stable linker for solid-phase oligonucleotide synthesis. <i>Journal of the Chemical Society Chemical Communications</i> , 1989 , 891		50
20	The Incorporation of 2,6-Diaminopurine Into Oligodeoxyribonucleotides by the Phosphoramidite Method. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 1989 , 8, 1051-1051	1.4	8
19	Inosine.adenine base pairs in a B-DNA duplex. <i>Nucleic Acids Research</i> , 1987 , 15, 7935-49	20.1	65
18	Structural features and hydration of a dodecamer duplex containing two C.A mispairs. <i>Nucleic Acids Research</i> , 1987 , 15, 6589-606	20.1	65
17	The structure of guanosine-thymidine mismatches in B-DNA at 2.5-A resolution.. <i>Journal of Biological Chemistry</i> , 1987 , 262, 9962-9970	5.4	127
16	The structure of guanosine-thymidine mismatches in B-DNA at 2.5-A resolution. <i>Journal of Biological Chemistry</i> , 1987 , 262, 9962-70	5.4	121
15	Molecular structure of the G.A base pair in DNA and its implications for the mechanism of transversion mutations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986 , 83, 2402-6	11.5	220
14	Structure of an adenine-cytosine base pair in DNA and its implications for mismatch repair. <i>Nature</i> , 1986 , 320, 552-5	50.4	279
13	Structural features and hydration of d(C-G-C-G-A-A-T-T-A-G-C-G); a double helix containing two G.A mispairs. <i>Journal of Biomolecular Structure and Dynamics</i> , 1986 , 4, 173-91	3.6	70
12	Chiral phosphorothioate analogues of B-DNA. The crystal structure of Rp-d[Gp(S)CpGp(S)CpGp(S)C]. <i>Journal of Molecular Biology</i> , 1986 , 192, 891-905	6.5	122
11	Structural characterisation of the bromouracil.guanine base pair mismatch in a Z-DNA fragment. <i>Nucleic Acids Research</i> , 1986 , 14, 1801-9	20.1	52
10	Refined crystal structure of an octanucleotide duplex with G . T mismatched base-pairs. <i>Journal of Molecular Biology</i> , 1986 , 190, 605-18	6.5	65
9	High-resolution structure of a DNA helix containing mismatched base pairs. <i>Nature</i> , 1985 , 315, 604-6	50.4	132
8	G . T base-pairs in a DNA helix: the crystal structure of d(G-G-G-G-T-C-C-C). <i>Journal of Molecular Biology</i> , 1985 , 186, 805-14	6.5	100
7	Intrauterine parvovirus infection associated with hydrops fetalis. <i>Lancet, The</i> , 1984 , 2, 1033-4	40	334

6	Use of inter-proton nuclear Overhauser effects to assign the nuclear magnetic resonance spectra of oligodeoxynucleotide and hybrid duplexes in aqueous solution. <i>FEBS Journal</i> , 1983 , 135, 307-14	29
5	Purines, pyrimidines, and imidazoles. Part 53. Synthesis of some 5-halogeno-analogues of metiamide and cimetidine. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1980 , 2310	12
4	Targeted high-resolution chromosome conformation capture at genome-wide scale	1
3	CRISPRi is not strand-specific and redefines the transcriptional landscape	1
2	INSIGHT: a population scale COVID-19 testing strategy combining point-of-care diagnosis with centralised high-throughput sequencing	6
1	Dynamics of the 4D genome during lineage specification, differentiation and maturation in vivo	4