

DNA synthesis technologies to close the gene writing gap

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Towards the controlled enzymatic synthesis of LNA containing oligonucleotides. <i>Frontiers in Chemistry</i> , 0, 11, .	3.6	6
2	Construction and Applications of Mammalian Cell-Based DNA-Encoded Peptide/Protein Libraries. <i>ACS Synthetic Biology</i> , 2023, 12, 1874-1888.	3.8	2
3	Generation of DNA Aptamers with Functional Activity in Mammalian Cells by Mimicking Retroviruses. <i>Analytical Chemistry</i> , 0, , .	6.5	0
5	Fast and efficient template-mediated synthesis of genetic variants. <i>Nature Methods</i> , 2023, 20, 841-848.	19.0	3
6	Route selection and reaction engineering for sustainable metabolite synthesis. <i>Reaction Chemistry and Engineering</i> , 0, , .	3.7	1
7	Harnessing the power of artificial intelligence to advance cell therapy. <i>Immunological Reviews</i> , 2023, 320, 147-165.	6.0	5
8	RNA origami: design, simulation and application. <i>RNA Biology</i> , 2023, 20, 510-524.	3.1	3
9	From CPG to hybrid support: Review on the approaches in nucleic acids synthesis in various media. <i>Bioorganic Chemistry</i> , 2023, 140, 106806.	4.1	0
10	Anthrax revisited: how assessing the unpredictable can improve biosecurity. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 11, .	4.1	1
11	The importance of molecular diagnostic techniques on evaluation of cancers. , 0, , .		0
12	Synthetic Biology: Major Principles and Current Trends of Development in Russia. <i>Nanobiotechnology Reports</i> , 2023, 18, 337-344.	0.6	0
13	Data Storage Using DNA. <i>Advanced Materials</i> , 2024, 36, .	21.0	0
14	Choice of fusion proteins, expression host, and analytics solves difficultâ€œtoâ€œproduce protein challenges in discovery research. <i>Biotechnology Journal</i> , 2024, 19, .	3.5	0
15	A sequential one-pot approach for rapid and convenient characterization of putative restriction-modification systems. <i>MSystems</i> , 0, , .	3.8	0
16	From nature to industry: Harnessing enzymes for biocatalysis. <i>Science</i> , 2023, 382, .	12.6	16
18	Recent development on DNA & genome synthesis. <i>Current Opinion in Systems Biology</i> , 2024, 37, 100490.	2.6	0
19	Microzone Melting Method of Porous Reactor Fabrication with Structure-Controlled Microchannel Networks for High Yield In Situ DNA Synthesis. <i>ACS Applied Polymer Materials</i> , 0, , .	4.4	0
20	â€œDifficultâ€œdeoxyribonucleotide sequences in the solid-phase synthesis by the phosphoramidite chemistry. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 0, , 1-9.	1.1	0

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22	Long oligodeoxynucleotides: chemical synthesis, isolation via catching-by-polymerization, verification via sequencing, and gene expression demonstration. <i>Beilstein Journal of Organic Chemistry</i> , 0, 19, 1957-1965.	2.2	0
23	Programming and monitoring surface-confined DNA computing. <i>Bioorganic Chemistry</i> , 2024, 143, 107080.	4.1	0
24	GMOCU: Digital Documentation, Management, and Biological Risk Assessment of Genetic Parts. <i>Advanced Biology</i> , 2024, 8, .	2.5	0
25	Nonaqueous Oxidation in DNA Microarray Synthesis Improves the Oligonucleotide Quality and Preserves Surface Integrity on Gold and Indium Tin Oxide Substrates. <i>Analytical Chemistry</i> , 2024, 96, 2378-2386.	6.5	0
26	Whispering-Gallery Mode Optoplasmonic Microcavities: From Advanced Single-Molecule Sensors and Microlasers to Applications in Synthetic Biology. <i>ACS Photonics</i> , 2024, 11, 892-903.	6.6	0
27	DNA as a universal chemical substrate for computing and data storage. <i>Nature Reviews Chemistry</i> , 2024, 8, 179-194.	30.2	0
28	<i>Mesoplasma florum</i> : a near-minimal model organism for systems and synthetic biology. <i>Frontiers in Genetics</i> , 0, 15, .	2.3	0
29	Highly Parallelized Construction of DNA from Low-Cost Oligonucleotide Mixtures Using Data-Optimized Assembly Design and Golden Gate. <i>ACS Synthetic Biology</i> , 2024, 13, 745-751.	3.8	0
30	Orthopox viruses: is the threat growing?. <i>Clinical Microbiology and Infection</i> , 2024, , .	6.0	0
31	A rapid and scalable approach to build synthetic repetitive hormone-responsive promoters. <i>Plant Biotechnology Journal</i> , 0, , .	8.3	0
32	Automated high-throughput DNA synthesis and assembly. <i>Heliyon</i> , 2024, 10, e26967.	3.2	0
33	Mutagenesis techniques for evolutionary engineering of microbes exploiting CRISPR-Cas, oligonucleotides, recombinases, and polymerases. <i>Trends in Microbiology</i> , 2024, , .	7.7	0
34	Landscape of microalgae omics and metabolic engineering research for strain improvement: An overview. <i>Aquaculture</i> , 2024, 587, 740803.	3.5	0
35	Interleukins and interferons in mesenchymal stromal stem cell-based gene therapy of cancer. <i>Cytokine and Growth Factor Reviews</i> , 2024, , .	7.2	0
36	Back to the Future of Metabolism Advances in the Discovery and Characterization of Unknown Biocatalytic Functions and Pathways. <i>Life</i> , 2024, 14, 364.	2.4	0
37	Recent Progress in High-Throughput Enzymatic DNA Synthesis for Data Storage. <i>Biochip Journal</i> , 0, , .	4.9	0
38	High-throughput DNA synthesis for data storage. <i>Chemical Society Reviews</i> , 2024, 53, 4463-4489.	38.1	0
39	Efficient data reconstruction: The bottleneck of large-scale application of DNA storage. <i>Cell Reports</i> , 2024, 43, 113699.	6.4	0