

# DNA data storage

DNA data storage is a rapidly developing technology owing to its high density, long-term durability and low maintenance cost. However, errors that often arise out of in-vitro coding remain a major technical challenge for this ...

The rapid expansion of genomic data is driving an imminent storage crisis that traditional silicon-based technologies, limited by density and durability, cannot adequately address. This ...

Theoretical modeling predicts superior performance in array-based synthesis systems for large-scale data storage applications. HYCFS shows potential to enhance DNA-based data storage ...

Data storage and retrieval using DNA sequences have been extensively studied in computer and information sciences because of the increasing demand for archiving large amounts of data ...

DNA, or deoxyribonucleic acid, is nature's data storage system. It holds the genetic instructions necessary for the development, functioning, growth, and reproduction of all known ...

A group of scientists at ETH Zürich has discovered a means of instilling 3D printed objects with their own DNA. Contributing to a field of research exploring DNA's potential for data storage ...

DNA, the blueprint of life, possesses a remarkable capacity for information storage. It functions as a natural archive, holding the instructions that define every living organism. Beyond its ...

Abstract Digital data encoding is crucial for communication and data storage, but conventional techniques, such as ASCII and binary coding, have drawbacks in terms of processing speed ...

DNA???????????? ??????????(????????)?? ...

DNA is increasingly recognized for its superior data storage density, favorable stability, and low energy requirements, positioning it as a potential alternative for future digital information ...

Compared with conventional DNA cryptography methods based on complex biological operations, our method offers superior practicality and reliability, positioning it as an ideal solution for data ...

Abstract A wide range of codecs with vastly different error-correction approaches have been proposed and implemented for DNA data storage to date. However, while many codecs claim ...



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