

The Weekly

DNA Nanoscience Advanced Intelligent Computing Technology and Applications The Hunter-gatherer Within Emerging Infectious Diseases 2002 Ocean Sciences Meeting Ionic Liquids in the Biorefinery Concept Kenneth Douglas De-Shuang Huang Kerry G. Brock Rafal Bogel-Lukasik
DNA Nanoscience Advanced Intelligent Computing Technology and Applications The Hunter-gatherer Within Emerging Infectious Diseases 2002 Ocean Sciences Meeting Ionic Liquids in the Biorefinery Concept *Kenneth Douglas De-Shuang Huang Kerry G. Brock Rafal Bogel-Lukasik*

dna nanoscience from prebiotic origins to emerging nanotechnology melds two tales of dna one is a look at the first 35 years of dna nanotechnology to better appreciate what lies ahead in this emerging field the other story looks back 4 billion years to the possible origins of dna which are shrouded in mystery the book is divided into three parts comprised of 15 chapters and two brief interludes part i includes subjects underpinning the book such as a primer on dna the broader discipline of nanoscience and experimental tools used by the principals in the narrative part ii examines the field of structural dna nanotechnology founded by biochemist crystallographer nadrian seeman that uses dna as a construction material for nanoscale structures and devices rather than as a genetic material part iii looks at the work of physicists noel clark and tommaso bellini who found that short dna nanodna forms liquid crystals that act as a structural gatekeeper orchestrating a series of self assembly processes using nanodna this led to an explanation of the polymeric structure of dna and of how life may have emerged from the prebiotic clutter

the 20 volume set Incs 15842 15861 together with the 4 volume set Inai 15862 15865 and the 4 volume set Inbi 15866 15869 constitutes the refereed proceedings of the 21st international conference on intelligent computing icic 2025 held in ningbo china during july 26 29 2025 the 1206 papers presented in these proceedings books were carefully reviewed and selected from 4032 submissions they deal with emerging and challenging topics in artificial intelligence machine learning pattern recognition bioinformatics and computational biology

we want to examine what the scientific evidence suggests is really going on when we eat food and how we can eat and live in a way that best gives us the health benefits of a hunter gatherer lifestyle while living in and enjoying the advantages of the modern world we also hope to use the evidence to explore how we can increase our chances of avoiding chronic diseases obesity and other health problems the diseases of civilization p 7

the implementation of ionic liquids technologies in future biorefineries is challenging different approaches can be applied along the entire chain of biomass valorisation to achieve a specific target molecule from biomass pre treatment and fractionation processes to extraction downstream separation and purification methodologies of high value added products and pivot chemicals this book summarises recent achievements in the use of ionic liquids in biomass processing as an alternative to conventional processes particularly in the context of green chemistry it features real world case studies where high value added products have been obtained using ionic liquid processing demonstrating the practical applications of these technologies the book concludes by assessing the development of further biorefineries with ionic liquids the book is an important reference for researchers and practising chemists bringing readers up to date with current research in this field

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