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Dr. Dimitar Dimov, Ph.D. AZoNano speaks with Dr. Dimitar Dimov, who is the founder of Concrene. Concrene Limited is a London-based nanotechnology company, that has developed a breakthrough solution ...

Grupo KUO

For a list of abbreviations, see Table 2. Induced genes are classified as inflammatory related on the basis of gene ontology annotation as inflammatory process, cytokine, chemokine, and/or immune ...

American Journal of Respiratory Cell and Molecular Biology

The endothelium senses biomechanical forces via mechanosensors

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(4) expressed on the cell surface that initiate a complex network of signal transduction pathways that, ultimately, regulate cell and ...

Mechanical forces regulate endothelial-to-mesenchymal transition and atherosclerosis via an Alk5-Shc mechanotransduction pathway

Background: This document provides evidence-based clinical practice guidelines on the use of mechanical ventilation in adult patients with acute respiratory distress syndrome (ARDS). Methods: A ...

American Journal of Respiratory and Critical Care Medicine

Platinum agents are known to act through the formation of DNA adducts that inhibit DNA synthesis and transcription. Proposed mechanisms of resistance include inactivation of platinum

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compounds ...

DNA Repair Gene Polymorphisms Predict Favorable Clinical Outcome in Advanced Non-Small-Cell Lung Cancer

Arrests bacterial cell wall synthesis, which in turn inhibits bacterial ... Through Food --- Foodborne Diseases Active Surveillance Network, 10 U.S. Sites, 1996—2010. [Full Text].

Which medications in the drug class Antibiotics are used in the treatment of Vibrio Infections?

See allHide authors and affiliations The endoplasmic reticulum (ER) is a central eukaryotic organelle with a tubular network made of hairpin proteins ... be involved in other ER functions such as ...

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Alternative glycosylation controls endoplasmic reticulum dynamics and tubular extension in mammalian cells

He has made fundamental contributions to the formal specification, analysis and synthesis techniques of real-time and embedded ...
599-617. with T.W. Kuo et al. Real-Time Data Semantics and Similarity ...

Aloysius K Mok

Dynamic Random Access Memory (DRAM) stores data in a capacitor. These capacitors leak charge so the information would fade unless the charge is refreshed periodically. Because of this refresh ...

DRAM: Dynamic Random Access Memory

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Dr. Roper has a B.S. in Chemistry from Furman University in South Carolina and a PhD in Chemistry from the University of Chicago. He also held a Post-doctoral appointment at Northwestern University.

John Roper

The Belmont Forum is an international group of funding agencies and scientific organisations that are involved in support of global environmental change research, that aims to further accelerate and ...

Belmont Forum

A recommendation email will be sent to the administrator(s) of the selected organisation(s) With the number of international migrants

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globally reaching an estimated 272 million (United Nations report, ...

The Cambridge Handbook of Intercultural Training

Siemens EDA is a broad line supplier of EDA tools. It provides a complete semiconductor design flow that includes simulation, emulation, place and route, verification, design for manufacturing, and ...

Siemens EDA (formerly Mentor Graphics)

The emergence of highly transmissible SARS-CoV-2 variants of concern (VOC) that are resistant to therapeutic antibodies highlights the need for continuing discovery of broadly reactive antibodies. We ...

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Ultrapotent antibodies against diverse and highly transmissible SARS-CoV-2 variants

Research in the group undertakes the synthesis of bespoke nanomaterials using biologically inspired green routes. In our new book, the aim is to address the highly sought aspect of how to translate ...

Professor Siddharth V Patwardhan

He has made fundamental contributions to the formal specification, analysis and synthesis techniques of real-time and embedded ...
599-617. with T.W. Kuo et al. Real-Time Data Semantics and Similarity ...

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This book is a collection of tutorial-like chapters on all core topics of signals and systems and the electronic circuits. All the topics dealt with in the book are parts of the core syllabi of standard programs in Electrical Engineering, Electrical and Computer Engineering, and Electronics and Telecommunication Engineering domains. This book is intended to serve as a secondary reader or supplementary text for core courses in the area of signals and systems, electronic circuits, and analog and digital signal processing. When studying or teaching a particular topic, the

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students and instructors of such courses would find it interesting and worthwhile to study the related tutorial chapter in this book in order to enhance their understanding of the fundamentals, simplification of procedures, alternative approaches and relation to other associated topics. In addition, the book can also be used as a primary or secondary text in short-term or refresher courses, and as a self-study guide for professionals wishing to gain a comprehensive review of the signals and systems domain.

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Psychology uses a psychological perspective, and a uniquely global focus, to review the latest literature and research in the interconnected fields of training, development, and performance appraisal. Maintains a truly global focus on the field with top international contributors exploring research and practice from around the world Offers researchers and professionals essential information for building a talented organization, a critical and challenging task for organizational success in the 21st century Covers a diverse range of topics, including needs analysis, job design, active learning, self-regulation, simulation approaches, 360-degree feedback, and virtual learning environments

Provides, in one handbook, comprehensive coverage of one of the hottest topics in stereoselective chemistry Written by leading

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international authors in the field, this book introduces readers to C-H activation in asymmetric synthesis along with all of its facets. It presents stereoselective C-H functionalization with a broad coverage, from outer-sphere to inner-sphere C-H bond activation, and from the control of olefin geometry to the induction of point, planar and axial chirality. Moreover, methods wherein asymmetry is introduced either during the C-H activation or in a different elementary step are discussed. Presented in two parts?asymmetric activation of C(sp³)-H bonds and stereoselective synthesis implying activation of C(sp²)-H bonds?CH-Activation for Asymmetric Synthesis showcases the diversity of stereogenic elements, which can now be constructed by C-H activation methods. Chapters in Part 1 cover: C(sp³)-H bond insertion by metal carbenoids and nitrenoids; stereoselective C-C bond and C-N bond forming

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reactions through C(sp³)–H bond insertion of metal nitrenoids; enantioselective intra- and intermolecular couplings; and more. Part 2 looks at: C–H activation involved in stereodiscriminant step; planar chirality; diastereoselective formation of alkenes through C(sp²)–H bond activation; amongst other methods. -Covers one of the most rapidly developing fields in organic synthesis and catalysis -Clearly structured in two parts (activation of sp³- and activation of sp²-H bonds) -Edited by two leading experts in C–H activation in asymmetric synthesis CH-Activation for Asymmetric Synthesis will be of high interest to chemists in academia, as well as those in the pharmaceutical and agrochemical industry.

Carbon in Earth's fluid envelopes - the atmosphere, biosphere, and hydrosphere, plays a fundamental role in our planet's climate system

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and a central role in biology, the environment, and the economy of earth system. The source and original quantity of carbon in our planet is uncertain, as are the identities and relative importance of early chemical processes associated with planetary differentiation. Numerous lines of evidence point to the early and continuing exchange of substantial carbon between Earth's surface and its interior, including diamonds, carbon-rich mantle-derived magmas, carbonate rocks in subduction zones and springs carrying deeply sourced carbon-bearing gases. Thus, there is little doubt that a substantial amount of carbon resides in our planet's interior. Yet, while we know it must be present, carbon's forms, transformations and movements at conditions relevant to the interiors of Earth and other planets remain uncertain and untapped. Volume highlights include: - Reviews key, general topics, such as carbonate minerals,

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the deep carbon cycle, and carbon in magmas or fluids - Describes new results at the frontiers of the field with presenting results on carbon in minerals, melts, and fluids at extreme conditions of planetary interiors - Brings together emerging insights into carbon's forms, transformations and movements through study of the dynamics, structure, stability and reactivity of carbon-based natural materials - Reviews emerging new insights into the properties of allied substances that carry carbon, into the rates of chemical and physical transformations, and into the complex interactions between moving fluids, magmas, and rocks to the interiors of Earth and other planets - Spans the various chemical redox states of carbon, from reduced hydrocarbons to zero-valent diamond and graphite to oxidized CO₂ and carbonates - Captures and synthesizes the exciting results of recent, focused efforts in an emerging scientific

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discipline - Reports advances over the last decade that have led to a major leap forward in our understanding of carbon science -
Compiles the range of methods that can be tapped tap from the deep carbon community, which includes experimentalists, first principles theorists, thermodynamic modelers and geodynamicists -
Represents a reference point for future deep carbon science research
Carbon in Planetary Interiors will be a valuable resource for researchers and students who study the Earth's interior. The topics of this volume are interdisciplinary, and therefore will be useful to professionals from a wide variety of fields in the Earth Sciences, such as mineral physics, petrology, geochemistry, experimentalists, first principles theorists, thermodynamics, material science, chemistry, geophysics and geodynamics.

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Faculties, publications and doctoral theses in departments or divisions of chemistry, chemical engineering, biochemistry and pharmaceutical and/or medicinal chemistry at universities in the United States and Canada.

Recent advances in genomic studies have stimulated synergetic research and development in many cross-disciplinary areas. Processing the vast genomic data, especially the recent large-scale microarray gene expression data, to reveal the complex biological functionality, represents enormous challenges to signal processing and statistics. This perspective naturally leads to a new field, genomic signal processing (GSP), which studies the processing of genomic signals by integrating the theory of signal processing and statistics. Written by an international, interdisciplinary team of

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authors, this invaluable edited volume is accessible to students just entering this emergent field, and to researchers, both in academia and in industry, in the fields of molecular biology, engineering, statistics, and signal processing. The book provides tutorial-level overviews and addresses the specific needs of genomic signal processing students and researchers as a reference book. The book aims to address current genomic challenges by exploiting potential synergies between genomics, signal processing, and statistics, with special emphasis on signal processing and statistical tools for structural and functional understanding of genomic data. The first part of this book provides a brief history of genomic research and a background introduction from both biological and signal-processing/statistical perspectives, so that readers can easily follow the material presented in the rest of the book. In what follows,

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overviews of state-of-the-art techniques are provided. We start with a chapter on sequence analysis, and follow with chapters on feature selection, classification, and clustering of microarray data. We then discuss the modeling, analysis, and simulation of biological regulatory networks, especially gene regulatory networks based on Boolean and Bayesian approaches. Visualization and compression of gene data, and supercomputer implementation of genomic signal processing systems are also treated. Finally, we discuss systems biology and medical applications of genomic research as well as the future trends in genomic signal processing and statistics research.

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