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IONTRONICS

IONIC CARRIERS IN ORGANIC ELECTRONIC MATERIALS AND DEVICES

CRC Press The field of organic electronics promises exciting new technologies based on inexpensive and mechanically flexible electronic devices, and is now seeing the beginning of commercial success. On the sidelines of this increasingly well-established field are several emerging technologies with innovative mechanisms and functions that utilize the mixed ionic/electronic conducting character of conjugated organic materials. **Iontronics: Ionic Carriers in Organic Electronic Materials and Devices** explores the potential of these materials, which can endow electronic devices with unique functionalities. Fundamental science and applications With contributions from a community of experts, the book focuses on the use of ionic functions to define the principle of operation in polymer devices. It begins by reviewing the scientific understanding and important scientific discoveries in the electrochemistry of conjugated polymers. It examines the known effects of ion incorporation, including the theory and modulation of electrochemistry in polymer films, and it explores the coupling of electronic and ionic transport in polymer films. The authors also describe applications that use this technology, including polymer electrochromic devices, artificial muscles, light-emitting electrochemical cells, and biosensors, and they discuss the fundamental technological hurdles in these areas. The changes in materials properties and device characteristics due to ionic conductivity and electrochemical doping in electrically conductive organic materials, as well as the importance of these processes in a number of different and exciting technologies, point to a large untapped potential in the development of new applications and novel device architecture. This volume captures the state of the science in this burgeoning field.

COMPUTERS HELPING PEOPLE WITH SPECIAL NEEDS

14TH INTERNATIONAL CONFERENCE, ICCHP 2014, PARIS, FRANCE, JULY 9-11, 2014, PROCEEDINGS, PART I

Springer The two-volume set LNCS 8547 and 8548 constitutes the refereed proceedings of the 14th International Conference on Computers Helping People with Special Needs, ICCHP 2014, held in Paris, France, in July 2014. The 132 revised full papers and 55 short papers presented were carefully reviewed and selected from 362 submissions. The papers included in the first volume are organized in the following topical sections: accessible media; digital content and media accessibility; 25 years of the Web: weaving accessibility; towards e-inclusion for people with intellectual disabilities; the impact of PDF/UA on accessible PDF; accessibility of non-verbal communication; emotions for accessibility (E4A), games and entertainment software; accessibility and therapy; implementation and take-up of e-accessibility; accessibility and usability of mobile platforms for people with disabilities and elderly persons; portable and mobile platforms for people with disabilities and elderly persons; people with cognitive disabilities: At, ICT and AAC; autism: ICT and AT; access to mathematics, science and music and blind and visually impaired people: AT, HCI and accessibility.

ASIAN BUSINESS NETWORKS

Walter de Gruyter

CARBON NANOTUBE-POLYMER COMPOSITES

Royal Society of Chemistry The purpose of this book is to summarize the basic chemical aspects for obtaining multifunctional carbon nanotube-based polymer composites, but also to highlight some of the most remarkable advances that occurred in the field during the last recent years.

MACHINE LEARNING, OPTIMIZATION, AND DATA SCIENCE

5TH INTERNATIONAL CONFERENCE, LOD 2019, SIENA, ITALY, SEPTEMBER 10-13, 2019, PROCEEDINGS

Springer Nature This book constitutes the post-conference proceedings of the 5th International Conference on Machine Learning, Optimization, and Data Science, LOD 2019, held in Siena, Italy, in September 2019. The 54 full papers presented were carefully reviewed and selected from 158 submissions. The papers cover topics in the field of machine learning, artificial intelligence, reinforcement learning, computational optimization and data science presenting a substantial array of ideas, technologies, algorithms, methods and applications.

TEACHING ABOUT AMERICAN FEDERAL DEMOCRACY

Ten essays discuss federal democracy, the form of government of the United States. The first essay discusses the origins of American federalism. The second examines why we have a federal system, the functions federalism serves, and the consequences of federalism for the American political system. Federalism in the Constitution and constitutional law are treated in the third essay. The importance of cultural pluralism in American life and the role of American federalism in supporting pluralism are the foci of the fourth essay. The roles that the local community, the states, and political parties play in the federal system are examined in essays 5, 6, and 7, respectively. State, local, and professional roles in citizenship education are discussed in the eighth essay. The ninth essay explores how high school U.S. history and government textbooks approach federalism. The concluding essay describes resources on federalism that can be used in curriculum development at the secondary and college levels. Many of the essays are followed by topics for further study and suggested readings for teachers. (RM)

CULTURAL STRUGGLES

PERFORMANCE, ETHNOGRAPHY, PRAXIS

University of Michigan Press Gathers the essential essays of Dwight Conquergood, performance studies scholar, ethnographer, and activist

NA-ION BATTERIES

John Wiley & Sons This book covers both the fundamental and applied aspects of advanced Na-ion batteries (NIB) which have proven to be a potential challenger to Li-ion batteries. Both the chemistry and design of positive and negative electrode materials are examined. In NIB, the electrolyte is also a crucial part of the batteries and the recent research, showing a possible alternative to classical electrolytes - with the development of ionic liquid-based electrolytes - is also explored. Cycling performance in NIB is also strongly associated with the quality of the electrode-electrolyte interface, where electrolyte degradation takes place; thus, Na-ion Batteries details the recent achievements in furthering knowledge of this interface. Finally, as the ultimate goal is commercialization of this new electrical storage technology, the last chapters are dedicated to the industrial point of view, given by two startup companies, who developed two different NIB chemistries for complementary applications and markets.

ARTIFICIAL INTELLIGENCE AND INDUSTRIAL APPLICATIONS

ARTIFICIAL INTELLIGENCE TECHNIQUES FOR CYBER-PHYSICAL, DIGITAL TWIN SYSTEMS AND ENGINEERING APPLICATIONS

Springer Nature This book gathers selected papers from Artificial Intelligence and Industrial Applications (A2IA'2020), the first installment of an annual international conference organized by ENSAM-Meknes at Moulay Ismail University, Morocco. The 29 papers presented here were carefully reviewed and selected from 141 submissions by an international scientific committee. They address various aspects of artificial intelligence such as digital twin, multiagent systems, deep learning, image processing and analysis, control,

prediction, modeling, optimization and design, as well as AI applications in industry, health, energy, agriculture, and education. The book is intended for AI experts, offering them a valuable overview and global outlook for the future, and highlights a wealth of innovative ideas and recent, important advances in AI applications, both of a foundational and practical nature. It will also appeal to non-experts who are curious about this timely and important subject.

FAMILY-GROUP NAMES OF RECENT FISHES

The family-group names of animals (superfamily, family, subfamily, supertribe, tribe and subtribe) are regulated by the International Code of Zoological Nomenclature. Family names are particularly important because they are among the most widely used of all technical animal names. Apart from using the correct family-group name according to the Code, it is also important to use one unique universal name (with a fixed spelling) to avoid confusion. We have compiled a list of familygroup names for Recent fishes, applied the rules of the Code and, if possible, tried to conserve the names in prevailing recent practice. We list all of the family-group names found to date for Recent fishes (N=2625), together with their author(s) and year of publication. This list can be used in assigning the correct family-group name to a genus or a group of genera. With this publication we contribute to the usage of correct, universal family-group names in the classification of, and for communication about, Recent fishes.

THE ROUTLEDGE HANDBOOK OF ENVIRONMENTAL ECONOMICS IN ASIA

Routledge Problems of climate change, biodiversity and air pollution are clearly growing globally, but more particularly in Asia because of its economic importance and richness in nature. The increasing interest in environmental and resource economics applied in regions of Asia will make this book an outstanding resource to the existing literature, particularly in the fields of environmental and resource economics and the integration of applied content in traditional and agricultural development. At present there is no single handbook or text on the state of current knowledge in environmental economics in Asia or one which offers a comprehensive guide to students and academics on the subjects of environmental economics research. This book will help to fill the gap in the existing literature.

PROCEEDINGS OF INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENT ON COMPUTER AND COMMUNICATION

ICRAC 2017

Springer The book is a compilation of best papers presented at International Conference on Recent Advancement in Computer and Communication (ICRAC 2017) organized by IMPLab Research and Innovation Foundation, Bhopal, India. The book covers all aspects of computers and communication techniques including pervasive computing, distributed computing, cloud computing, sensor and adhoc network, image, text and speech processing, pattern recognition and pattern analysis, digital signal processing, digital electronics, telecommunication technologies, robotics, VLSI technologies, embedded system, satellite communication, digital signal processing, and digital communication. The papers included are original research works of experts from industry, government centers and academic institutions; experienced in engineering, design and research.

ADVANCES IN FOOD BIOTECHNOLOGY

John Wiley & Sons The application of biotechnology in the food sciences has led to an increase in food production and enhanced the quality and safety of food. Food biotechnology is a dynamic field and the continual progress and advances have not only dealt effectively with issues related to food security but also augmented the nutritional and health aspects of food. Advances in Food Biotechnology provides an overview of the latest development in food biotechnology as it relates to safety, quality and security. The seven sections of the book are multidisciplinary and cover the following topics: GMOs and food security issues Applications of enzymes in food processing Fermentation technology Functional food and nutraceuticals Valorization of food waste Detection and control of foodborne pathogens Emerging techniques in food processing Bringing together experts drawn from around the world, the book is a comprehensive reference in the most progressive field of food science and will be of interest to professionals, scientists and academics in the food and biotech industries. The book will be highly resourceful to governmental research and regulatory agencies and those who are studying and teaching food biotechnology.

CONTEMPORARY CLIMATOLOGY

Routledge Now in its second edition, Climatology continues to provide an up-to-date stimulating and comprehensive guide to the nature of the earth's climate. It presents a synthesis of contemporary scientific ideas about atmospheric circulation. Topics covered include: -Energy systems-The hydrological cycle-General circulation, local and regional climate-

Application of climate information-Use of satellite observations

CARP GENETIC RESOURCES FOR AQUACULTURE IN ASIA

WorldFish

RECTANGULAR CONCRETE TANKS

ADVANCES IN COMPUTING AND COMMUNICATIONS, PART I

FIRST INTERNATIONAL CONFERENCE, ACC 2011, KOCHI, INDIA, JULY 22-24, 2011. PROCEEDINGS, PART I

Springer This volume is the first part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 68 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are organized in topical sections on ad hoc networks; advanced micro architecture techniques; autonomic and context-aware computing; bioinformatics and bio-computing; cloud, cluster, grid and P2P computing; cognitive radio and cognitive networks; cyber forensics; database and information systems.

MANUFACTURING FACILITIES DESIGN AND MATERIAL HANDLING

Pearson Educación This project-oriented facilities design and material handling reference explores the techniques and procedures for developing an efficient facility layout, and introduces some of the state-of-the-art tools involved, such as computer simulation. A "how-to," systematic, and methodical approach leads readers through the collection, analysis and development of information to produce a quality functional plant layout. Lean manufacturing; work cells and group technology; time standards; the concepts behind calculating machine and personnel requirements, balancing assembly lines, and leveling workloads in manufacturing cells; automatic identification and data collection; and ergonomics. For facilities planners, plant layout, and industrial engineer professionals who are involved in facilities planning and design.

EMERGING TECHNOLOGIES IN COMPUTER ENGINEERING

MICROSERVICES IN BIG DATA ANALYTICS : SECOND INTERNATIONAL CONFERENCE, ICETCE 2019, JAIPUR, INDIA, FEBRUARY 1-2, 2019, REVISED SELECTED PAPERS

This book constitutes the refereed proceedings of the Second International Conference on Emerging Technologies in Computer Engineering: Microservices in Big Data Analytics, ICETCE 2019, held in Jaipur, India, in February 2019. The 28 revised full papers along with 1 short paper presented were carefully reviewed and selected from 253 submissions. ICETCE conference aims to showcase advanced technologies, techniques, innovations and equipments in computer engineering. It provides a platform for researchers, scholars, experts, technicians, government officials and industry personnel from all over the world to discuss and share their valuable ideas and experiences.

CHITIN

FORMATION AND DIAGENESIS

Springer Science & Business Media There are several books on properties of chitin and associated biomolecules and their biochemical significance. However, the present volume deals with a wide variety of biogeochemical and organic geochemical aspects of this vital macromolecule written by leading authors and experts in the field. Each chapter is carefully peer reviewed and is an updated account of recent research in isotopic, nanostructural, biochemical, microstructural, geochemical, paleontological and experimental aspects of chitin formation, distribution and preservation in the environment and earth history.

LOVING ANNA

CreateSpace Amelia Kurt was different. And she knew it. That didn't stop her from loving her best friend, Annabelle Johnson. They spent an entire summer making love, and growing into what was promising to be the only relationship either ever knew. Then, one day, the unexpected happens. Anna disappears. No reason, no forwarding address, no number. She

was simply gone. Eleven years later, Anna returns. Her truth is heartbreaking but it's only the beginning of their journey to recovery.

NATURAL PRODUCTS

DRUG DISCOVERY AND THERAPEUTIC MEDICINE

Springer Science & Business Media A fresh examination of the past successes of natural products as medicines and their new future from both conventional and new technologies. High-performance liquid chromatography profiling, combinatorial synthesis, genomics, proteomics, DNA shuffling, bioinformatics, and genetic manipulation all now make it possible to rapidly evaluate the activities of extracts as well as purified components derived from microbes, plants, and marine organisms. The authors apply these methods to new natural product drug discoveries, to microbial diversity, to specific groups of products (Chinese herbal drugs, antitumor drugs from microbes and plants, terpenoids, and arsenic compounds), and to specific sources (the sea, rainforest, and endophytes). These new opportunities show how research and development trends in the pharmaceutical industry can advance to include both synthetic compounds and natural products, and how this paradigm shift can be more productive and efficacious.

POSSIBLE WORLDS IN IMPOSSIBLE SPACES

KNOWLEDGE, GLOBALITY, GENDER AND INFORMATION TECHNOLOGY IN THE PHILIPPINES

Ateneo University Press

CHARACTERIZATION OF BIOMATERIALS

Newnes One of the key challenges current biomaterials researchers face is identifying which of the dizzying number of highly specialized characterization tools can be gainfully applied to different materials and biomedical devices. Since this diverse marketplace of tools and techniques can be used for numerous applications, choosing the proper characterization tool is highly important, saving both time and resources. Characterization of Biomaterials is a detailed and multidisciplinary discussion of the physical, chemical, mechanical, surface, in vitro and in vivo characterization tools and techniques of increasing importance to fundamental biomaterials research. Characterization of Biomaterials will serve as a comprehensive resource for biomaterials researchers requiring detailed information on physical, chemical, mechanical, surface, and in vitro or in vivo characterization. The book is designed for materials scientists, bioengineers, biologists, clinicians and biomedical device researchers seeking input on planning on how to test their novel materials, structures or biomedical devices to a specific application. Chapters are developed considering the need for industrial researchers as well as academics. Biomaterials researchers come from a wide variety of disciplines: this book will help them to analyze their materials and devices taking advantage of the multiple experiences on offer. Coverage encompasses a cross-section of the physical sciences, biological sciences, engineering and applied sciences characterization community, providing gainful and cross-cutting insight into this highly multi-disciplinary field. Detailed coverage of important test protocols presents specific examples and standards for applied characterization

MODEL CODE FOR SERVICE LIFE DESIGN

MODEL CODE

fib Fédération internationale du béton fib Bulletin 34 addresses Service Life Design (SLD) for plain concrete, reinforced concrete and pre-stressed concrete structures, with a special focus on design provisions for managing the adverse effects of degradation. Its objective is to identify agreed durability related models and to prepare the framework for standardization of performance based design approaches. Four different options for SLD are given: - a full probabilistic approach, - a semi probabilistic approach (partial factor design), - deemed to satisfy rules, - avoidance of deterioration. The service life design approaches described in this document may be applied for the design of new structures, for updating the service life design if the structure exists and real material properties and/or the interaction of environment and structure can be measured (real concrete covers, carbonation depths), and for calculating residual service life. The bulletin is divided into five chapters: 1. General 2. Basis of design 3. Verification of Service Life Design 4. Execution and its quality management 5. Maintenance and condition control It also includes four informative annexes, which give background information and examples of procedures and deterioration models for the application in SLD. The format of Bulletin 34 follows the CEB-FIP tradition for Model Codes: the main provisions are given on the right-hand side of the page, and on the left-hand side, the comments. Note: An Italian translation of Bulletin 34 is also available; contact us for further details.

AS LONG AS THE RIVERS RUN

HYDROELECTRIC DEVELOPMENT AND NATIVE COMMUNITIES

Univ. of Manitoba Press In past treaties, the Aboriginal people of Canada surrendered title to their lands in return for guarantees that their traditional ways of life would be protected. Since the 1950s, governments have reneged on these commitments in order to acquire more land and water for hydroelectric development. James B. Waldram examines this controversial topic through an analysis of the politics of hydroelectric dam construction in the Canadian Northwest, focusing on three Aboriginal communities in Manitoba and Saskatchewan. He argues that little has changed in our treatment of Aboriginal people in the past hundred years, when their resources are still appropriated by the government "for the common good." Using archival materials, personal interviews and largely inaccessible documents and letters, Waldram highlights the clear parallel between the treatment of Aboriginal people in the negotiations and agreements that accompany hydro development with the treaty and scrip processes of the past century.

VACCINE EFFICACY EVALUATION

THE GNOTOBIOTIC PIG MODEL

CRC Press This book provides detailed information on establishing gnotobiotic pig models, determining a proper virus inoculum pool and challenge dose, measuring protection and calculating efficacy, and delineating intestinal and systemic immune responses associated with the protection.

GLOBAL DESERTS OUTLOOK

UNEP/Earthprint Namibia Business Intelligence Report - Practical Information, Opportunities, Contacts

ADVANCES IN COMPUTING AND COMMUNICATIONS, PART IV

FIRST INTERNATIONAL CONFERENCE, ACC 2011, KOCHI, INDIA, JULY 22-24, 2011. PROCEEDINGS

Springer Science & Business Media This volume is the fourth part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 62 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are the papers of the Workshop on Cloud Computing: Architecture, Algorithms and Applications (CloudComp2011), of the Workshop on Multimedia Streaming (MultiStreams2011), and of the Workshop on Trust Management in P2P Systems (IWTMP2PS2011).

CREATE A SAFE AND HEALTHY WORKPLACE

THE CRESCENT AND THE RISING SUN

INDONESIAN ISLAM UNDER THE JAPANESE OCCUPATION, 1942-1945

ACCOUNTING

TOOLS FOR BUSINESS DECISION MAKING 5E CA EDITION

APPLIED COGNITIVE COMPUTING

2018 Worldcomp International C The primary goal of the Applied Cognitive Computing conference is to provide a platform for researchers, scientists, industry experts and scholars to share their novel ideas and research results on the application of human cognition models in various practical computing applications. Through this conference, the organizers would like to develop an interdisciplinary venue to contribute and discuss the ongoing innovations, applications and solutions to challenging problems of engineering human brain

processes, learning mechanisms and decision making processes. This book contains the proceedings of the 2018 International Conference on Applied Cognitive Computing (ACC'18).

SHIP AUTOMATION

FOR MARINE ENGINEERS AND ETOS

TIME AND TIDE

Lucy Nash has just finished up her sophomore year of high school and is anticipating an uneventful summer at her rural Georgia home. . . that is, until a weird twist of fate and physics takes her on a trip back through time to the year 1975 with Cameron Hall, a boy her age whose own time is thirty years into her future. Cameron is hoping to stop a series of child disappearances, one of which deeply affected his family, and ends up teaming up with his accidental "passenger" to solve the crime. But despite their access to resources from the future, can two teenagers resolve a mystery that has remained a cold case for over sixty years. . . and what impact will their presence in the past have on their own lives - and their own futures?

COMPUTERS FOR HANDICAPPED PERSONS

4TH INTERNATIONAL CONFERENCE, ICCHP '94, VIENNA, AUSTRIA, SEPTEMBER 14-16, 1994 : PROCEEDINGS
