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Programme and the Book of Abstracts / Twentieth Young Researchers' Conference Materials Science and Engineering, November 30 - December 2, 2022, Belgrade, Serbia Springer Nature

A number of driving forces, including the soaring global crude oil prices and environmental concerns in both developed and developing nations has triggered a renewed interest in the recent years on the R&D of biofuel crops. In this regard, many countries across the globe are investing heavily in the bioenergy sector for R&D to increase their energy security and reduce their dependence on imported fossil fuels. Currently, most of the biofuel requirement is met by sugarcane in Brazil and corn in the United States, while biodiesel from rapeseed oil in Europe. Sweet sorghum has been identified as a unique biofuel feedstock in India since it is well adapted to Indian agro-climatic conditions and more importantly it does not jeopardize food security at the cost of fuel. Sweet sorghum [*Sorghum bicolor* (L.) Moench] is considered as a SMART new generation energy crop as it can accumulate sugars in its stalks similar to sugarcane, but without food-fuel trade-offs

and can be cultivated in almost all temperate and tropical climatic conditions and has many other advantages. The grain can be harvested from the panicles at maturity. There is no single publication detailing the agronomic and biochemical traits of tropical sweet sorghum cultivars and hybrid parents. Hence, an attempt is made in this publication- "Characterization of improved sweet sorghum cultivars" to detail the complete description of cultivars. This book serves as a ready reference on the detailed characterization of different improved sweet sorghum genotypes following the PPVFRA guidelines for the researchers, entrepreneurs, farmers and other stakeholders to identify the available sweet sorghum cultivars and understand their yield potential in tropics.

Unified Chromatography John Wiley & Sons
Extremophiles have been studied for many decades - these microorganisms can thrive under a vast range of conditions, including extreme temperature, pH, pressure, radiation, salinity, energy, and nutrient limitation. Life in extreme environments has evolved to render solutions that overcome the challenges presented by such conditions. Among these solutions include extremozymes and extremolytes, an invaluable collection of natural, renewable, and biological resources with immense potential for applications aimed at the development of a sustainable bio-economy, especially in biotechnology and other industrial sectors. In line with this observation, extremophilic DNA polymerases have been instrumental in driving unprecedented progress in recombinant DNA technologies applied in diverse

areas, including agriculture and human health.

Thermostable and halotolerant enzymes are likely to feature significantly in the renewable energy sector of the future, including bioethanol production and the Gas-to-Liquid effort, which aims at converting greenhouse gases such as CO₂ and methane to liquid fuels. Furthermore, due to the stability of extremophilic protein homologs, insights to the structure and function of protein/protein complexes, including those critical to protein degradation, were solved to advance our understanding of fundamental processes across the three domains of life.

[Protective Effects of Medicinal Plant Extracts and Natural Compounds in Skin Disorders](#) Institut tehnikih naukaSANU

This revision brings the reader completely up to date on the evolving methods associated with increasingly more complex sample types analyzed using high-performance liquid chromatography, or HPLC. The book also incorporates updated discussions of many of the fundamental components of HPLC systems and practical issues associated with the use of this analytical method. This edition includes new or expanded treatments of sample preparation, computer assisted method development, as well as biochemical samples, and chiral separations.

HPLC of Peptides and Proteins Elsevier

How can I use my HPLC/UHPLC equipment in an optimal way, where are the limitations of the technique? These questions are discussed in detail in the sequel of the successful "HPLC Expert" in twelve chapters written by experts in the respective fields. The topics encompass - complementary to the first volume - typical HPLC users' problems and questions such as gradient optimization and hyphenated techniques (LC-MS). An important key aspect of the book is UHPLC: For which analytical problem is it essential, what should be considered? Besides presentation of latest developments directly from the main manufacturers, also UHPLC users and independent service engineers impart their knowledge. Consistent with the target groups, the level is advanced, but the emphasis is on practical applications.

R & D Springer Nature

This is the first comprehensive reference work for GC/MS

now in its second edition. It offers broad coverage, from sample preparation to the evaluation of MS-Data, including library searches. Fundamentals, techniques, and applications are described. A large part of the book is devoted to numerous examples for GC/MS-applications in environmental, food, pharmaceutical and clinical analysis. These proven examples come from the daily practice of various laboratories. The book also features a glossary of terms and a substance index that helps the reader to find information for his particular analytical problem. The author presents in a consistent and clear style his experience from numerous user workshops which he has organized. This is a thoroughly revised and updated English edition based on an edition which was highly successful in Germany.

Mitteilungen Klosterneuburg Springer

Completely revised and updated, this text provides an easy-to-read guide to the concept of mass spectrometry and demonstrates its potential and limitations. Written by internationally recognised experts and utilising "real life" examples of analyses and applications, the book presents real cases of qualitative and quantitative applications of mass spectrometry. Unlike other mass spectrometry texts, this comprehensive reference provides systematic descriptions of the various types of mass analysers and ionisation, along with corresponding strategies for interpretation of data. The book concludes with a comprehensive 3000 references. This multi-disciplined text covers the fundamentals as well as recent advance in this topic, providing need-to-know information for researchers in many disciplines including pharmaceutical, environmental and biomedical analysis who are utilizing mass spectrometry

Bulletin Frontiers Media SA

Advances in the Use of Liquid Chromatography Mass Spectrometry (LC-MS): Instrumentation Developments and Application, Volume 79, highlights the most recent LC-MS evolutions through a series of contributions by world renowned scientists that will lead the readers through the most recent innovations in the field and their possible applications. Many authoritative books on LC-MS are already present in market, describing in detail the different interfaces and their principles of operation. This book focuses more on new trends, starting with the innovations of each technique, to the most progressive challenges of LC-MS. - Presents an understanding of the new advancements in LC and MS which are essential for a step forward in LC-MS applications - Provides insight into the state-of-the-

art in the currently available LC-MS interfaces and their principle of use - Expounds on the new frontiers in LC-MS and their application potential

Handbook of Pharmaceutical Analysis by HPLC John Wiley & Sons
This publication comprises the proceedings of the first International Conference devoted to the structural roots of trees and woody plants. 'The Supporting Roots - Structure and Function,' 20-24 July 1998, Bordeaux, France. The meeting was held under the auspices of IUFRO WPS 2. 01. 13 'Root Physiology and Symbiosis,' and its aim was to bring together scientific researchers, foresters and arboriculturalists, to discuss current problems in structural root research and disseminate knowledge to an audience from a wide disciplinary background. For the first time in an international conference, emphasis was placed on presenting recent research in the field of tree anchorage mechanics and root biomechanics. The way in which tree stability can be affected by root system symmetry and architecture was addressed, as well as how movement during wind sway can influence the development and shape of woody roots. The role of different nursery and planting techniques was discussed, in relation to effects on root system form and development. Root response to different environmental stresses, including water, temperature, nutrient and mechanical stress was addressed in detail. The structure and function of woody roots was also considered at different levels, from coarse to fine roots, with several papers discussing the interaction between roots and the rhizosphere. One of the conference highlights was the presentation of new methods in root research, by a series of workshops held at LRBB-INRA, Pierroton, on the northern border of the Gascony forest.

The Supporting Roots of Trees and Woody Plants: Form, Function and Physiology Elsevier

This book addresses different methods and techniques of integration for enhancing the overall goal of data mining. The book is a collection of high-quality peer-reviewed research papers presented in the Sixth International Conference on Computational Intelligence in Data Mining (ICCIDM 2021) held at Aditya Institute of Technology and Management, Tekkali, Andhra Pradesh, India, during December 11–12, 2021. The book addresses the difficulties and challenges for the seamless integration of two core disciplines of computer science, i.e., computational intelligence and data mining. The book helps to disseminate the knowledge about some innovative, active research directions in the field of data mining, machine and computational intelligence, along with some current issues and applications of related topics.

Handbook of GC/MS Frontiers Media SA

The latest edition of the authoritative reference to HPLC High-performance liquid chromatography (HPLC) is today the leading technique for chemical analysis and related applications, with an ability to separate, analyze, and/or purify

virtually any sample. Snyder and Kirkland's Introduction to Modern Liquid Chromatography has long represented the premier reference to HPLC. This Third Edition, with John Dolan as added coauthor, addresses important improvements in columns and equipment, as well as major advances in our understanding of HPLC separation, our ability to solve problems that were troublesome in the past, and the application of HPLC for new kinds of samples. This carefully considered Third Edition maintains the strengths of the previous edition while significantly modifying its organization in light of recent research and experience. The text begins by introducing the reader to HPLC, its use in relation to other modern separation techniques, and its history, then leads into such specific topics as: The basis of HPLC separation and the general effects of different experimental conditions Equipment and detection The column—the "heart" of the HPLC system Reversed-phase separation, normal-phase chromatography, gradient elution, two-dimensional separation, and other techniques Computer simulation, qualitative and quantitative analysis, and method validation and quality control The separation of large molecules, including both biological and synthetic polymers Chiral separations, preparative separations, and sample preparation Systematic development of HPLC separations—new to this edition Troubleshooting tricks, techniques, and case studies for both equipment and chromatograms Designed to fulfill the needs of the full range of HPLC users, from novices to experts, Introduction to Modern Liquid Chromatography, Third Edition offers the most up-to-date, comprehensive, and accessible survey of HPLC methods and applications available.

The HPLC Expert II Elsevier Health Sciences

For the majority of the world's population, medicinal and aromatic plants are the most important source of life-saving drugs. Biotechnological tools represent important resources for selecting, multiplying and conserving the critical genotypes of medicinal plants. In this regard, in-vitro regeneration holds tremendous potential for the production of high-quality plant-based medicines, while cryopreservation – a long-term conservation method using liquid nitrogen – provides an opportunity to conserve endangered medicinal and aromatic plants. In-vitro production of secondary metabolites in plant cell suspension cultures has been reported for various medicinal plants, and bioreactors represent a key step toward the commercial production of secondary metabolites by means of plant biotechnology. Addressing these key aspects, the book contains 29 chapters, divided into three sections. Section 1: In-

vitro production of secondary metabolites Section 2: In-vitro propagation, genetic transformation and germplasm conservation Section 3: Conventional and molecular approaches

Introduction to Modern Liquid Chromatography Springer Science & Business Media

This volume provides a straightforward approach to isolation and purification problems with a thorough presentation of preparative LC strategy including the interrelationship between the input and output of the instrumentation, while keeping to an application focus. The book stresses the practical aspects of preparative scale separations from TLC isolations through various laboratory scale column separations to very large scale production. It also gives a thorough description of the performance parameters (e.g. throughput, separation quality, etc.) as a function of operational parameters (e.g. particle size, column size, solvent usage, etc.). Experts in the field have contributed a well balanced presentation of separation development strategies from preparative TLC to commercial preparative process with practical examples in a wide variety of application areas such as drugs, proteins, nucleotides, industrial extracts, organic chemicals, enantiomers, polymers, etc.

Introduction to Mass Spectrometry Springer Science & Business Media

Young Researchers' meetings are held annually late in December since 2002 and they are organized by the Materials Research Society of Serbia. Originally conceived as seminars, since 2007 these meetings were transformed into conferences. The previous eleven meetings featured presentations based on the research of various young scientists from Serbia, Bosnia and Herzegovina, Montenegro, Slovenia, Brazil, Germany, United States of America, China, Poland, Belgium, Spain, Romania, United Kingdom, Austria, Italy, Hungary, Russia, Canada, etc. At the Conference, young researchers, students of doctoral, master and undergraduate studies, are given the opportunity to make an overview of their research into materials science and engineering through oral and poster presentations. As for the scientific content of the conference, we have given full priority to research topics that are currently considered as being on the frontier of the field.

Nanotechnology and Advanced Materials, Synthesis and Engineering of Biomaterials, Application of Biomaterials,

Theoretical Modeling of Materials and Advanced Methods for Synthesis and Processing present only some of those exciting topics that will be given the central stage and most attention during this meeting. The 20th Young Researchers' Conference Materials Science and Engineering was held in Belgrade, Serbia on November 30 - December 2, 2022, Belgrade, Serbia. It was organized by the Materials Research Society of Serbia and Institute of Technical Sciences of the Serbian Academy of Sciences and Arts.

Practical HPLC Method Development John Wiley & Sons

The latest title from the acclaimed Current Protocols series, *Current Protocols Essential Laboratory Techniques, 2e* provides the new researcher with the skills and understanding of the fundamental laboratory procedures necessary to run successful experiments, solve problems, and become a productive member of the modern life science laboratory. From covering the basic skills such as measurement, preparation of reagents and use of basic instrumentation to the more advanced techniques such as blotting, chromatography and real-time PCR, this book will serve as a practical reference manual for any life science researcher. Written by a combination of distinguished investigators and outstanding faculty, *Current Protocols Essential Laboratory Techniques, 2e* is the cornerstone on which the beginning scientist can develop the skills for a successful research career.

Tappi Journal Elsevier

Here, authors specializing in different branches of chromatography--including gas chromatography, supercritical fluid chromatography, and high-pressure liquid chromatography--describe their fields while drawing out connections with other branches.

Research & Development Frontiers Media SA

A reader friendly overview of the structure and functional relevance of natural glycosylation and its cognate proteins (lectins), this book is also one of the few books to cover their role in health and disease. Edited by one of the pioneering experts in the field and written by a team of renowned researchers this resource is a perfect introduction for all students in life and medical sciences, biochemistry, chemistry and pharmacy. Website: WWW.WILEY-VCH.DE/HOME/THESUGARCODE

Biotechnological Approaches for Medicinal and Aromatic Plants Frontiers Media SA

A concise yet comprehensive reference guide on HPLC/UHPLC that focuses on its fundamentals, latest

developments, and best practices in the pharmaceutical and biotechnology industries Written for practitioners by an expert practitioner, this new edition of HPLC and UHPLC for Practicing Scientists adds numerous updates to its coverage of high-performance liquid chromatography, including comprehensive information on UHPLC (ultra-high-pressure liquid chromatography) and the continuing migration of HPLC to UHPLC, the modern standard platform. In addition to introducing readers to HPLC's fundamentals, applications, and developments, the book describes basic theory and terminology for the novice, and reviews relevant concepts, best practices, and modern trends for the experienced practitioner. HPLC and UHPLC for Practicing Scientists, Second Edition offers three new chapters. One is a standalone chapter on UHPLC, covering concepts, benefits, practices, and potential issues. Another examines liquid chromatography/mass spectrometry (LC/MS). The third reviews the analysis of recombinant biologics, particularly monoclonal antibodies (mAbs), used as therapeutics. While all chapters are revised in the new edition, five chapters are essentially rewritten (HPLC columns, instrumentation, pharmaceutical analysis, method development, and regulatory aspects). The book also includes problem and answer sections at the end of each chapter. Overviews fundamentals of HPLC to UHPLC, including theories, columns, and instruments with an abundance of tables, figures, and key references Features brand new chapters on UHPLC, LC/MS, and analysis of recombinant biologics Presents updated information on the best practices in method development, validation, operation, troubleshooting, and maintaining regulatory compliance for both HPLC and UHPLC Contains major revisions to all chapters of the first edition and substantial rewrites of chapters on HPLC columns, instrumentation, pharmaceutical analysis, method development, and regulatory aspects Includes end-of-chapter quizzes as assessment and learning aids Offers a reference guide to graduate students and practicing scientists in pharmaceutical, biotechnology, and other industries Filled with intuitive explanations, case studies, and clear figures, HPLC and UHPLC for Practicing Scientists, Second Edition is an essential resource for practitioners of all levels who need to understand and utilize this versatile analytical technology. It will be a great benefit to every busy laboratory analyst and researcher.

Molecular Descriptors for Chemoinformatics John Wiley & Sons During its short 20 year history High Performance Liquid Chro

matography (HPLC) has won itself a firm place amongst the instrumental methods of analysis. HPLC has caused a revolution in biological and pharmaceutical chemistry. Approximately two thirds of the publications on HPLC are concerned with problems from this area of life science. Biotechnology, where it is necessary to isolate substances from complicated mixtures, is likely to give further impetus to the dissemination of modern liquid chromatography in columns, particularly on the preparative scale. This book presents, by means of examples, the application of HPLC to various fields, as well as fundamental discussions of chromatographic methods. The quality of the analytical result is decisively dependent on the qualities of the equipment employed (by Colin, Guiochon, and Martin). Especially the demands are discussed that are placed on the components of the instrument including those for data acquisition and processing. The section on "quantitative analysis" (by ABhauer, Ullner) covers besides the principles also the problems of ensuring the quality of the data in detail. The basic problems arising by enlarging the sample size to preparative dimensions and the requirements put on the apparatus are discussed in the section on "preparative applications" (by Wehrli).

Quality Control and Evaluation of Herbal Drugs Springer
Science & Business Media

High pressure liquid chromatography—frequently called high performance liquid chromatography (HPLC or, LC) is the premier analytical technique in pharmaceutical analysis and is predominantly used in the pharmaceutical industry. Written by selected experts in their respective fields, the Handbook of Pharmaceutical Analysis by HPLC Volume 6, provides a complete yet concise reference guide for utilizing the versatility of HPLC in drug development and quality control. Highlighting novel approaches in HPLC and the latest developments in hyphenated techniques, the book captures the essence of major pharmaceutical applications (assays, stability testing, impurity testing, dissolution testing, cleaning validation, high-throughput screening). A complete reference guide to HPLC Describes best practices in HPLC and offers 'tricks of the trade' in HPLC operation and method development Reviews key HPLC pharmaceutical applications and highlights current trends in HPLC ancillary techniques, sample preparations, and data handling

Transcriptome & Metabolic Profiling: An Insight Into the Abiotic Stress Response Crosstalk in Plants Elsevier

We are delighted to present the 2022 Women in Chemistry article collection. Following the celebration of International Women's Day 2022, the UNESCO International Day of Women and Girls in Science, Frontiers in Chemistry is proud to offer this platform to promote the work of women scientists, across all branches of

Chemistry. At present, less than 30% of researchers worldwide are women. Long-standing biases and gender stereotypes are discouraging girls and women away from science-related fields, and STEM research in particular. Chemistry is no exception to this. Science and gender equality are, however, essential to ensure sustainable development as highlighted by UNESCO. In order to change traditional mindsets, gender equality must be promoted, stereotypes defeated, and girls and women should be encouraged to pursue STEM careers.