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High Resolution Active Optical Remote Sensing Observations of Aerosols, Clouds and Aerosol-Cloud Interactions and Their Implication to Climate
Royal Society of Chemistry
The eight-volume set LNCS 12901, 12902, 12903, 12904, 12905, 12906, 12907, and 12908 constitutes the refereed proceedings of the 24th International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2021, held in Strasbourg, France, in September/October 2021.* The 531 revised full papers presented were carefully reviewed and selected from 1630 submissions in a double-blind review process. The papers are organized in the following topical sections: Part I: image segmentation Part II: machine learning - self-supervised learning; machine learning - semi-supervised learning; and machine learning - weakly supervised learning Part III: machine learning - advances in machine learning theory; machine learning - attention models; machine learning - domain adaptation; machine learning - federated learning; machine learning - interpretability / explainability; and machine learning - uncertainty Part IV: image registration; image-guided interventions and surgery; surgical data science; surgical planning and simulation; surgical skill and work flow analysis; and surgical visualization and mixed, augmented and virtual reality Part V: computer aided diagnosis; integration of imaging with non-imaging biomarkers; and outcome/disease prediction Part VI: image reconstruction; clinical applications - cardiac; and clinical applications - vascular Part VII: clinical applications - abdomen; clinical applications - breast; clinical applications - dermatology; clinical applications - fetal imaging; clinical applications - lung; clinical applications - neuroimaging - brain development; clinical applications - neuroimaging - DWI and tractography; clinical applications - neuroimaging - functional brain networks; clinical applications - neuroimaging - others; and clinical applications - oncology Part VIII: clinical applications - ophthalmology; computational (integrative) pathology; modalities - microscopy; modalities - histopathology; and modalities - ultrasound *The conference was held virtually.

Pharmacogenomics and Pharmacomicrobiomics in Type 2 Diabetes Mellitus (T2DM) Springer Nature
Microbial Cell Factories Engineering for Production of Biomolecules presents a compilation of chapters written by eminent scientists worldwide. Sections cover major tools and technologies for DNA synthesis, design of biosynthetic pathways, synthetic biology tools, biosensors, cell-free systems, computer-aided design, OMICS tools, CRISPR/Cas systems, and many more. Although it is not easy to find relevant information collated in a single volume, the book covers the production of a wide range of biomolecules from several MCFs, including Escherichia coli, Bacillus subtilis, Pseudomonas putida, Streptomyces, Corynebacterium, Cyanobacteria, Saccharomyces cerevisiae, Pichia pastoris and Yarrowia lipolytica, and algae, among many others. This will be an excellent platform from which scientific knowledge can grow and widen in MCF engineering research for the production of biomolecules. Needless to say, the book is a valuable source of information not only for researchers designing cell factories, but also for students, metabolic engineers, synthetic biologists, genome engineers, industrialists, stakeholders and policymakers interested in harnessing the potential of MCFs in several fields. Offers basic understanding and a clear picture of various MCFs Explains several tools and technologies, including DNA synthesis, synthetic biology tools, genome editing, biosensors, computer-aided design, and OMICS tools, among others Harnesses the potential of engineered MCFs to produce a wide range of biomolecules for industrial, therapeutic, pharmaceutical, nutraceutical and biotechnological applications Highlights the advances, challenges, and future opportunities in designing MCFs

Advances in Asset Management and Condition Monitoring John Wiley & Sons
The articles in this volume cover the various radiosurgical techniques used to treat benign and malignant intracranial tumors, cavernous malformations, and functional disorders, as well as a wide array of specific details on medical physics, neuroimaging, and anesthetic support. Particular emphasis is put on the optimal combination of microneurosurgery and radiosurgery for attaining the best functional results in patients with vestibular schwannomas, craniopharyngiomas, and pituitary adenomas, and on the most effective methods of treatment planning and radiation dosimetry in cases of metastatic brain tumors. The highlighted clinical aspects include indications for radiosurgery and the prediction of patients ’ prognosis, along with analysis of outcomes in comparison with results achieved by other modalities in the context of multifaceted therapeutic strategies. In addition, possible options for applying advanced treatment using such modern devices as Leksell Gamma Knife PerfexionTM and IconTM are presented in depth. This information will interest both radiosurgical practitioners and neurosurgeons, and help them to provide optimal care and to achieve the greatest benefit of their patients. This book will serve as an excellent companion for the previous publication “ Gamma Knife Neurosurgery in the Management of Intracranial Disorders ” (Acta Neurochirurgica Supplement, Volume 116, Springer, 2013).

Republic of Korea Springer
This book describes the key printing technologies for printed electronics.

Studies in Natural Products Chemistry Springer Nature
Recent Advances in Natural Products Analysis is a thorough guide to the latest analytical methods used for identifying and studying bioactive phytochemicals and other natural products. Chemical compounds, such as flavonoids, alkaloids, carotenoids and saponins are examined, highlighting the many techniques for studying their properties. Each chapter is devoted to a compound category, beginning with the underlying chemical properties of the main components followed by techniques of extraction, purification and fractionation, and then techniques of identification and quantification. Biological activities, possible interactions, levels found in plants, the effects of processing, and current and potential industrial applications are also included. Focuses on the latest analytical techniques used for studying phytochemical and other biological compounds Authored and edited by the top worldwide experts in their field Discusses the current and potential applications and predicts future trends of each compound group

Phytochemical Omics in Medicinal Plants CSIRO PUBLISHING

Balancing basic science with information on everyday clinical practice, Blumgart's Surgery of the Liver, Biliary Tract and Pancreas, 7th Edition, provides you with expert guidance and advances in the field so you can offer patients the most optimal diagnostic and surgical care. In two convenient volumes, Dr. William Jarnagin and his team of internationally recognized surgeons cover exactly what you need to know, including advances in diagnostic and surgical techniques, minimally invasive surgeries, new interventional diagnostic techniques, and all relevant diseases. This comprehensive, practical reference is designed to help you choose and perform the most appropriate procedures that will minimize inpatient hospital time, curtail costs, and reduce overall recovery time for your patients. Presents cutting-edge guidance on pathology, diagnostics, surgery and non-operative intervention of the liver, biliary tract, and pancreas in one highly regarded, authoritative reference. Covers all surgical approaches, both open and minimally invasive. Considers all worldwide opinions and approaches to management, and includes key data on surgical outcomes to better inform clinical decision-making. Contains 161 chapters with updated references and additional figures—more than 1,500 illustrations in all. The imaging section has been reorganized to reflect a disease-based approach. Includes new and expanded sections on advances in molecular characterization of benign and malignant HPB diseases, perioperative management, interventional techniques, minimally invasive surgery and robotics, and therapeutic advances for malignant disease. Features a section dedicated entirely to operative technique, plus a new historical chapter authored by Professor Jacques Belghitti: “ Hepatobiliary and Pancreatic Surgery: Historical Perspective.

Long-Term Care in Europe Springer Nature
This book gathers select contributions from the 32nd International Congress and Exhibition on Condition Monitoring and Diagnostic Engineering Management (COMADEM 2019), held at the University of Huddersfield, UK in September 2019, and jointly organized by the University of Huddersfield and COMADEM International. The aim of the Congress was to promote awareness of the rapidly emerging interdisciplinary areas of condition monitoring and diagnostic engineering management. The contents discuss the latest tools and techniques in the multidisciplinary field of performance monitoring, root cause failure modes analysis, failure diagnosis, prognosis, and proactive management of industrial systems. There is a special focus on digitally enabled asset management and covers several topics such as condition monitoring, maintenance, structural health monitoring, non-destructive testing and other allied areas. Bringing together expert contributions from academia and industry, this book will be a valuable resource for those interested in latest condition monitoring and asset management techniques.

Biomaterials In asia Frontiers Media SA
Biodegradable thermogels are a promising class of stimuli-responsive polymers. This book summarizes recent developments in thermogel research with a focus on synthesis and self-assembly mechanisms, gel biodegradability, and applications for drug delivery, cell encapsulation and tissue engineering. A closing chapter on commercialisation shows the challenges faced bringing this new material to market. Edited by leading authorities on the subject, this book offers a comprehensive overview for academics and professionals across polymer science, materials science and biomedical and chemical engineering.

Bioactive Materials for Bone Regeneration MDPI
Endoscopic spinal surgery has become popular due its procedure-related benefits. The biportal endoscopic surgery is a recent technique, which has gained popularity in Asia, Europe, and Latin America since it can be applied to treat many diseases of the whole spine as cervical, thoracic, lumbar and sacral. Divided into thirty-four chapters, this first-ever book on unilateral biportal endoscopic spine surgery presents the technique history review and its current applications; the currently available technology and basic principles of this surgery: anesthesia, position, and operative room setup; endoscopic instruments, hydrostatic pressure, and intraoperative radiology; as well as anatomical considerations of basic approaches. It also details the techniques to resolve lumbar, cervical and thoracic spine diseases. Written by the world's most influential groups that perform the method, Unilateral Biportal Endoscopy of the Spine: An Atlas of Surgical Techniques will certainly be widely accepted by all surgeons interested to improve their daily practice in minimally invasive spine surgery.

Synthesis and Applications of Nanomaterials and Nanocomposites Royal Society of Chemistry
This book constitutes the refereed post-conference proceedings of the 17th EAI International Conference on Quality, Reliability, Security and Robustness in Heterogeneous Networks, QShine 2021, held in November 2020. Due to COVID-19 pandemic the conference was held virtually. The 20 revised full papers were carefully reviewed and selected from 43 submissions. The papers are organized thematically in tracks Machine Learning in Distributed Networks; 5G Networks and Security; IoT Security and Lightweight Cryptography; Network Security; and Privacy-preserving Emerging Networked Applications.

Unilateral Biportal Endoscopy of the Spine Elsevier
Small Animal Soft Tissue Surgery Provides a fully updated new edition of this comprehensive, detailed reference to surgical syndromes and diseases in small animals Small Animal Soft Tissue Surgery, Second Edition offers a thoroughly revised new edition of this comprehensive, detailed reference to surgical syndromes and diseases in small animal patients. Featuring detailed surgical descriptions accompanied by high-quality illustrations, the book updates the procedures throughout to include new and revised techniques. New chapters cover pyloric hypertrophy, coagulation factors and anticoagulation strategies, and pacemakers, with a newly standalone chapter on persistent aortic arches. Organized by body system, each section of the book includes a brief review of surgical anatomy and physiology. Chapters present surgical techniques, with information on pathophysiology, diagnosis, treatment, and prognosis, and a companion website provides video clips and slideshows demonstrating the procedures. The Second Edition: Presents a complete resource to small animal soft tissue surgery Features detailed surgical descriptions accompanied by high-quality illustrations Updates surgical techniques throughout to reflect new or refined procedures Adds chapters on pyloric hypertrophy, coagulation factors and anticoagulation strategies, and pacemakers, and splits persistent aortic arches into an expanded standalone chapter Features video clips and slideshows on a companion website to demonstrate the techniques covered Relying on the very latest literature to present the current state of the art, Small Animal Soft Tissue Surgery is an essential reference for small animal surgeons, residents, and practitioners performing soft tissue surgery.

The Fibroblast Growth Factor Signaling Pathway in Metabolic Regulation, Development, Disease and Repair After Injury Springer Nature
This book brings together multiple aspects of the recent research conducted in the field of nanotechnology covering topics such as the synthesis of various nanoparticles, nanorods, graphene, graphene oxide-metal composites, characterization of these materials, and ample aspects of various applications including in heavy metal sensing, optoelectronic devices, gas sensing, solar cells, biomedical sensors, role in the drug delivery, and waste-water treatment. The book is of interest to early career researchers, who are trying to grasp multiple aspects of nanomaterials and nanocomposite synthesis and its potential applications.

Biodegradable Thermogels Frontiers Media SA
Studies in Natural Products Chemistry, Volume 63, covers the rapid developments in spectroscopic techniques and accompanying advances in high-throughput screening techniques that have made it possible to rapidly isolate and determine the structures and biological activity of natural products. The book highlights these new and exciting opportunities in the field of new drug development to the pharmaceutical industry. As natural products in the plant and animal kingdom offer a huge diversity of chemical structures that are the result of biosynthetic processes that have been modulated over the millennia through genetic effects, this book is an ideal resource on the material presented. Focuses on the chemistry of bioactive natural products Contains contributions by leading authorities in the field Presents sources of new pharmacophores

Functional Properties of Advanced Engineering Materials and Biomolecules Frontiers Media SA
State of the Art in Neural Networks and Their Applications, Volume Two presents the latest advances in artificial neural networks and their applications across a wide range of clinical diagnoses. The book provides over views and case studies of advances in the role of machine learning, artificial intelligence, deep learning, cognitive image processing, and suitable data analytics useful for clinical diagnosis and research applications. The application of neural network, artificial intelligence and machine learning methods in biomedical image analysis have resulted in the development of computer-aided diagnostic (CAD) systems that aim towards the automatic early detection of several severe diseases. State of the Art in Neural Networks and Their Applications is presented in two volumes. Volume One: Neural Networks in Oncology Imaging covers lung cancer, prostate cancer, and bladder cancer. Volume Two: Neural Networks in Brain Disorders and Other Diseases covers autism spectrum disorder, Alzheimer ’ s disease, attention deficit hyperactivity disorder, hypertension, and other diseases. Written by experienced engineers in the field, these two volumes will help engineers, computer scientists, researchers, and clinicians understand the technology and applications of artificial neural networks. Includes applications of neural networks, AI, machine learning, and deep learning techniques to a variety of oncology imaging technologies Provides in-depth technical coverage of computer-aided diagnosis (CAD), including coverage of computer-aided classification, unified deep learning frameworks, 3D MRI, PET/CT, and more Covers deep learning cancer identification from histopathological images, medical image analysis, detection, segmentation and classification via AI

Emerging Infectious Diseases MDPI
Bioactive Materials for Bone Regeneration summarizes research advances on the topic, including sections on the characteristics of biomaterial-induced microenvironments, interactions of bioactive materials with stem cells and tissues, and the immunomodulatory microenvironment induced by biomaterials and its effects on osteogenesis. As the regeneration of large-size bone tissue defects represents a significant clinical challenge, this book demonstrates how new biomaterials with specific chemical and physical characteristics may interact with the host and create a unique micro-environment that actively facilitates stem cell differentiation along a specific lineage, thus stimulating tissue regeneration. Provides readers with the latest research developments in the fabrication techniques of bioactive materials for tissue regeneration and tissue engineering applications Presents the latest research advancements on how bioactive materials interact with the host and induce micro-environments for stem cell differentiation, immunomodulation and tissue regeneration Covers the methods, strategies, principle and mechanisms on constructing beneficial biomaterial microenvironments

Recent Advances in Natural Products Analysis Taylor & Francis
This book gives an overview of the latest technologies in the Industry 4.0, using smart and autonomous systems driven by data and machine learning, to develop a sustainable approach to manufacturing. It includes the implementation of smart technological approaches in different manufacturing processes such as laser welding, additive manufacturing, equipment maintenance and inspection, automotive manufacturing, poultry processing, supply chain management, value stream mapping and development. This book caters to research experts and practitioners who are keen to realize the benefits of industry 4.0 to transform the manufacturing sector into a more sustainable-based state.

Life and Moral Education in Greater China Elsevier
This book shows how a small toolbox of experimental techniques, physical chemistry concepts as well as quantum/classical mechanics and statistical methods can be used to understand, explain and even predict extraordinary applications of these advanced engineering materials and biomolecules. It highlights how improving the material foresight by design, including the fundamental understanding of their physical and chemical properties, can provide new technological levels in the future.

State of the Art in Neural Networks and Their Applications Springer Nature
Systems of Nanovesicular Drug Delivery provides a thorough insight into the complete and up-to-date discussions about the preparation, properties and drug delivery applications of various nanovesicles. This volume discusses cubosomes, proniosomes and niosomes, dendrimerosomes and other new and effective approaches for drug delivery. It will be a valuable title and resource for academics and pharmaceutical scientists, including industrial pharmacists, analytical scientists, health care professionals and regulatory scientists actively involved in pharmaceutical products and process development of tailor-made polysaccharides in drug delivery applications. Recently, there have been a number of outstanding nanosystems in nanovesicular carrier-forms (such as nanoemulsions, self-nanoemulsifying systems, nanoliposomes, nanotransferosomes, etc.), that have been researched and developed for efficient drug delivery by many formulators, researchers and scientists. However, no previously published books have covered all these drug delivery nanovesicles collectively in a single resource. Provides thorough insights and up-to-date discussions about the various systems of nanovesicular drug delivery Covers advanced trigger-assisted systems (such as iontophoresis, ultra-sound triggering, etc.) and how they have been used for improved drug delivery by

nanovesicles Presents recent advances in drug delivery fields by global leaders and experts from academia, research, industry and regulatory agencies Includes an updated literature review of relevant key topics, good quality illustrations, chemical structures, attractive flow charts and well-organized tables
Inorganic Battery Materials Academic Press
This volume looks at modern approaches to catalysis and reviews the extensive literature which bridges the gap from academic studies in the laboratory to practical applications in industry not only for catalysis field but also for environmental protection.

Microbial Cell Factories Engineering for Production of Biomolecules Royal Society of Chemistry
Arguing for life, moral and values education as a bedrock for the original goals of school education, this monograph explores how life and values education is conceptualised and imparted in Greater China. Under a globalized, transnational, and technological world, where there has been an increase in people ’ s mobility, in information and cultural exchanges, there is also a growing emphasis on personal and professional ethics. Against this context, life, moral and values education has gained attention for its impact on shaping students' characters as future citizens. However, the cultivation of these values is made deeply diversified and complex by varying interpretations of "life education" and "values education" across societies, given that different societies are influenced by different socio-cultural traditions, educational ideologies and religious beliefs. The means and approaches towards life education also vary vastly from formal school subjects, school-based programmes as well as teachers and peers ’ role modelling, community services, extra-curricular activities, school discipline, charity work, pastoral care, and school ethos. Recognising this inherent diversity and complexity in the approach to and the dissemination of life education, the contributors to this volume survey the practice of life education in Greater China so far, suggesting that life education is most effective when it is "diversified, dynamic and developmental across contexts". This book will provide the opportunity for engaging in important and serious debates about the future and the values that will underpin it and will prove of special interest to scholars and practitioners working on education policies curriculum development and teacher education in Greater China.