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Titanium Dioxide (TiO₂) and Its Applications Oct 25 2019 Scientific interest in TiO₂-based materials has exponentially grown in the last few decades. Titanium Dioxide (TiO₂) and Its Applications introduces the main physicochemical properties of TiO₂ which are the basis of its applications in various fields. While the basic principles of the TiO₂ properties have been the subject of various previous publications, this book is mainly devoted to TiO₂ applications. The book includes contributions written by experts from a wide range of disciplines in order to address titanium dioxide's utilization in energy, consumer, materials, devices, and catalytic applications. The

various applications identified include: photocatalysis, catalysis, optics, electronics, energy storage and production, ceramics, pigments, cosmetics, sensors, and heat transfer. Titanium Dioxide (TiO₂) and Its Applications is suitable for a wide readership in the disciplines of materials science, chemistry, and engineering in both academia and industry. Includes a wide range of current and emerging applications of titanium dioxide in the fields of energy, consumer applications, materials, and devices Provides a brief overview of titanium dioxide and its properties, as well as techniques to design, deposit, and study the material Discusses the relevant properties, preparation methods, and other apposite considerations in each application-focused chapter
Court of Customs and Patent Appeals Reports Jun 01 2020

Software Defined Mobile Networks (SDMN) Jul 14 2021 This book describes the concept of a Software Defined Mobile Network (SDMN), which will impact the network architecture of current LTE (3GPP) networks. SDN will also open up new opportunities for traffic, resource and mobility management, as well as impose new challenges on network security. Therefore, the book addresses the main affected areas such as traffic, resource and mobility management, virtualized traffics transportation, network management, network security and techno economic concepts. Moreover, a complete introduction to SDN and SDMN concepts. Furthermore, the reader will be introduced to cutting-edge knowledge in areas such as network virtualization, as well as SDN concepts relevant to next generation mobile networks. Finally, by the end of the book the reader will be familiar with the feasibility and opportunities of SDMN concepts, and will be able to evaluate the limits of performance and scalability of these new technologies while applying them to mobile broadband networks.

Handbook of Fungal Biotechnology Jun 13 2021 The Handbook of Fungal Biotechnology offers the newest developments from the frontiers of fungal biochemical and molecular processes and industrial and semi-industrial applications of fungi. This second edition highlights the need for the integration of a number of scientific disciplines and technologies in modern fungal biotechnology and reigns as

Genetics and Genomics of Eye Disease Aug 15 2021 Genetics and Genomics of Eye Disease: Advancing to Precision Medicine thoroughly examines the latest genomics methods for studying eye disease, including complex eye disorders associated with multiple genes. GWAS, WES, WGS, RNA-sequencing, and transcriptome analysis as employed in ocular genomics are discussed in-depth, as are genomics findings tied to early-onset glaucoma, strabismus, age-related macular degeneration, adult-onset glaucoma, diabetic retinopathy, keratoconus, and leber congenital amaurosis, among other diseases. Research and clinical specialists offer guidance on conducting preventative screenings and counseling patients, as well as the promise of machine learning, computational statistics and artificial intelligence in advancing ocular genomics research. Offers thorough guidance on conducting genetic and genomic studies of eye disease Examines the genetic basis of a wide range of complex eye diseases and single-gene and Mendelian disorders Discusses the application of genetic testing and genetic risk prediction in eye disease diagnosis and patient counseling

Systems Analytics and Integration of Big Omics Data Mar 30 2020 A "genotype" is essentially an organism's full hereditary information which is obtained from its parents. A "phenotype" is an organism's actual observed physical and behavioral properties.

These may include traits such as morphology, size, height, eye color, metabolism, etc. One of the pressing challenges in computational and systems biology is genotype-to-phenotype prediction. This is challenging given the amount of data generated by modern Omics technologies. This “Big Data” is so large and complex that traditional data processing applications are not up to the task. Challenges arise in collection, analysis, mining, sharing, transfer, visualization, archiving, and integration of these data. In this Special Issue, there is a focus on the systems-level analysis of Omics data, recent developments in gene ontology annotation, and advances in biological pathways and network biology. The integration of Omics data with clinical and biomedical data using machine learning is explored. This Special Issue covers new methodologies in the context of gene–environment interactions, tissue-specific gene expression, and how external factors or host genetics impact the microbiome.

Principles and Modern Applications of Mass Transfer Operations Oct 05 2020 A staple in any chemical engineering curriculum New edition has a stronger emphasis on membrane separations, chromatography and other adsorptive processes, ion exchange Discusses many developing topics in more depth in mass transfer operations, especially in the biological engineering area Covers in more detail phase equilibrium since distillation calculations are completely dependent on this principle Integrates computational software and problems using Mathcad Features 25-30 problems per chapter

Current List of Medical Literature Nov 06 2020 Includes section, "Recent book acquisitions" (varies: Recent United States publications) formerly published separately by the U.S. Army Medical Library.

Cumulated Index Medicus Aug 27 2022

Semicarbazides—Advances in Research and Application: 2012 Edition Feb 09 2021 Semicarbazides—Advances in Research and Application: 2012 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about Semicarbazides in a compact format. The editors have built Semicarbazides—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Semicarbazides in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Semicarbazides—Advances in Research and Application: 2012 Edition has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Handbook of Concentrator Photovoltaic Technology Oct 17 2021 Concentrator Photovoltaics (CPV) is one of the most promising technologies to produce solar electricity at competitive prices. High performing CPV systems with efficiencies well over 30% and multi-megawatt CPV plants are now a reality. As a result of these achievements, the global CPV market is expected to grow dramatically over the next few years reaching cumulative installed capacity of 12.5 GW by 2020. In this context, both new and consolidated players are moving fast to gain a strategic advantage in this emerging market. Written with clear, brief and self-contained technical explanations,

Handbook of Concentrator Photovoltaic Technology provides a complete overview of CPV covering: the fundamentals of solar radiation, solar cells, concentrator optics, modules and trackers; all aspects of characterization and reliability; case studies based on the description of actual systems and plants in the field; environmental impact, market potential and cost analysis. CPV technology is at a key point of expansion. This timely handbook aims to provide a comprehensive assessment of all CPV scientific, technological and engineering background with a view to equipping engineers and industry professionals with all of the vital information they need to help them sustain the impetus of this encouraging technology. Key features: Uniquely combines an explanation of the fundamentals of CPV systems and components with an overview of the market place and their real-life applications. Each chapter is written by well-known industry specialists with extensive expertise in each particular field of CPV technology. Reviews the basic concepts of multi-junction solar cells and new concepts for CPV cells, highlighting the key differences between them. Demonstrates the state of the art of several CPV centres and companies. Facilitates future cost calculation models for CPV. Features extensive case studies in each chapter, including coverage of CPV modules and systems.

Physicochemical Treatment of Hazardous Wastes Mar 22 2022 This book examines the treatability of hazardous wastes by different physicochemical treatment processes according to the Quantitative Structure and Activity Relationship (QSAR) between kinetic rate constants and molecular descriptors. The author explores how to use these models to select treatment processes according to the molecular structure of

Anorectal Malformations in Children Feb 27 2020 The revised 4th edition of this classic textbook represents an international consensus in understanding and treating anorectal malformations. New topics include tethered cord, vaginal reconstruction, continent catheterizable channels, and the impact on family studies by parents' organizations. Special attention is given to new surgical techniques: posterior sagittal anorectal plasty (PSARP), urogenital sinue advancement, and laparoscopy. Includes the results of a recent conference.

Il papa rosso. La gloria dell'Ulivo Dec 07 2020

Biological Weapons Defense Dec 27 2019 In 2003, the President's budget for bioterrorism defense totalled more than \$5 billion. Today, the nation's top academic scientists are scrambling to begin work to understand *Bacillus anthracis* and develop new vaccines and drugs. However, just five years ago, only the US Department of Defense (DOD) seemed concerned about these "exotic" agents. In 1997, the DOD spent approximately \$137 million on biodefense to protect the deployed force, while academe, industry, local governments, and most of our federal leadership was oblivious to, and in some cases doubtful of, the seriousness of the threat. The National Institutes of Health (NIH) received the largest budget increase in the organization's history. Fortunately, during this time of national urgency, a sound base exists on which to build our defenses against this new threat. A relatively small cadre of dedicated scientists within the US Army Medical Research and Materiel Command (USAMRMC) laid this foundation over the past 20 years.

Inherited Cancer Syndromes Nov 18 2021 The second edition of *Inherited Cancer Syndromes* incorporates new genetic markers data with the clinical utility and practicality of the first edition.

Exotic Animal Hematology and Cytology Aug 03 2020 The newly revised Fifth Edition of Exotic Animal Hematology and Cytology delivers a fully updated new edition of the most complete reference to hematology and cytology in exotic animals. The book features high-quality images and step-by-step descriptions of practical techniques. Organized by animal class to make it easier to quickly find critical information, the authors have included 45 new case studies to highlight the application of the content in a real-world setting. All major exotic animal groups are covered, including mammals, birds, reptiles, amphibians, and fish. Clinicians seeking a decision-making aid for patient workup, treatment, and prognosis will find what they need in Exotic Animal Hematology and Cytology. The book also includes: Thorough cellular descriptions unique to mammalian, avian, herptile, and fish species, with extensive discussions of blood and bone marrow sample collection and hematologic techniques for each group Comprehensive evaluation of the peripheral blood specific to mammals, birds, herptiles, and fish, as well as the evaluation of bone marrow Practical discussions of hematology case studies with applications to common real-world clinical problems Color atlas of hemic cells of select species for quick and easy reference Extensive examinations of cytodiagnosis and exploration of unique features within mammals, birds, herptiles, and fish, as well as cytology case studies and wet-mount cases in fish Access to video clips and additional case reports on a companion website Exotic Animal Hematology and Cytology is an essential reference for veterinary clinical pathologists, anatomic pathologists, clinicians, and technicians, as well as for veterinary students taking courses involving exotic hematology and cytology.

Seismicity in Volcanic Areas Jul 26 2022

Novel Biomarkers in the Continuum of Breast Cancer May 12 2021 This volume provides a comprehensive review of established and novel biomarkers across the continuum of breast cancer. The volume covers topics related to breast cancer risk and prevention, prediction of response to today's standard therapies, and markers capable of influencing treatment decisions in the near future. Chapter authors combine their wide-ranging expertise to review the current status of the biomarker and to offer their individual perspectives on how biomarkers may be used in future treatments and research. Breast cancer continues to be the most common malignancy diagnosed in women in the Western world. While there are multiple treatment approaches for breast cancer, today more than ever we recognize that each tumor is unique. The challenge ahead is to consider how to best use validated and novel biomarkers to select the most appropriate treatment(s) for individual patients.

Control and Systems Engineering Feb 21 2022 This book is a tribute to 40 years of contributions by Professor Mo Jamshidi who is a well known and respected scholar, researcher, and educator. Mo Jamshidi has spent his professional career formalizing and extending the field of large-scale complex systems (LSS) engineering resulting in educating numerous graduates specifically, ethnic minorities. He has made significant contributions in modeling, optimization, CAD, control and applications of large-scale systems leading to his current global role in formalizing system of systems engineering (SoSE), as a new field. His books on complex LSS and SoSE have filled a vacuum in cyber-physical systems literature for the 21st Century. His contributions to ethnic minority engineering education commenced with his work at the University of New Mexico (UNM, Tier-I Hispanic Serving Institution) in 1980 through a NASA JPL

grant. Followed by several more major federal grants, he formalized a model for educating minorities, called VI-P Pyramid where K-12 students(bottom of pyramid) to doctoral (top of pyramid) students form a seamless group working on one project. Upper level students mentor lower ones on a sequential basis. Since 1980, he has graduated over 114 minority students consisting of 62 Hispanics, 34 African Americans., 15 Native Americans, and 3 Pacific Islanders. This book contains contributed chapters from colleagues, and former and current students of Professor Jamshidi. Areas of focus are: control systems, energy and system of systems, robotics and soft computing.

Hidden Markov Models Jun 25 2022 Hidden Markov Models (HMMs), although known for decades, have made a big career nowadays and are still in state of development. This book presents theoretical issues and a variety of HMMs applications in speech recognition and synthesis, medicine, neurosciences, computational biology, bioinformatics, seismology, environment protection and engineering. I hope that the reader will find this book useful and helpful for their own research.

Liquid Phase Aerobic Oxidation Catalysis Jan 08 2021 The first book to place recent academic developments within the context of real life industrial applications, this is a timely overview of the field of aerobic oxidation reactions in the liquid phase that also illuminates the key challenges that lie ahead. As such, it covers both homogeneous as well as heterogeneous chemocatalysis and biocatalysis, along with examples taken from various industries: bulk chemicals and monomers, specialty chemicals, flavors and fragrances, vitamins, and pharmaceuticals. One chapter is devoted to reactor concepts and engineering aspects of these methods, while another deals with the relevance of aerobic oxidation catalysis for the conversion of renewable feedstock. With chapters written by a team of academic and industrial researchers, this is a valuable reference for synthetic and catalytic chemists at universities as well as those working in the pharmaceutical and fine chemical industries seeking a better understanding of these reactions and how to design large scale processes based on this technology.

***Index Medicus* Jan 28 2020**

The Use of Video Technologies in Refereeing Football and Other Sports Oct 29 2022 For a long time, various different lobbying sectors have claimed that the use of video technology is an effective aid in decision-making. Now the IFAB has taken a historic step in the approval of experiments on the use of video to provide support to football refereeing. **The Use of Video Technologies in Refereeing Football and Other Sports** analyses the capacity of audio-visual technology from different perspectives to help understand the best implementation of the Video Assistant Referee (VAR) system in football and, more generally, in other sports. This book addresses in-depth interdisciplinary viewpoints on the need and the opportunity of the implementation procedures regarding how to use it, considering that it could lead to very important changes. The book goes on to examine various approaches to the most interesting topics for players, amateurs, coaches, referees and referees coaches. Offering viewpoints from both academics and professionals, this new volume addresses the VAR issue in a multidisciplinary way, analysing the implications of video replay application in football from the perspective of players, coaches, television professionals, referees, amateurs, sports lawyers, media and educators.

Nature-Based Solutions and Water Security Dec 19 2021 Nature-Based Solutions and Water Security: An Action Agenda for the 21st Century presents an action agenda for natural infrastructure on topics of standards and principles, technical evaluation and design tools, capacity building and innovative finance. Chapters introduce the topic and concepts of natural infrastructure, or nature-based solutions (NBS) and water security, with important background on the urgency of the global water crisis and the role that NBS can, and should play, in addressing this crisis. Sections also present the community of practice's collective thinking on a prioritized action agenda to guide more rapid progress in mainstreaming NBS. With contributions from global authors, including key individuals and organizations active in developing NBS solutions, users will also find important conclusions and recommendations, thus presenting a collaboratively developed, consensus roadmap to scaling NBS. Covers all issues of water security and natural infrastructures Presents a comprehensive state of synthesis, providing readers with a solid grounding in the field of natural infrastructures and water security Includes a fully workable and intuitive roadmap for action that is presented as a guide to the most important actions for practitioners, research questions for academics, and information on promising careers for students entering the field

International Manual of Oncology Practice Jul 02 2020 This textbook addresses themes ranging from the molecular issues of cancer sciences to clinical practice in medical oncology. It clarifies many topics, including molecular oncology, chemotherapy pharmacology and practical issues for clinicians. Systemic treatments in many areas of oncology feature, such as breast cancer, gastrointestinal, thoracic, urological oncology, head and neck tumors, bone tumors, sarcomas and palliative care. An excellent source for young physicians and researchers in the field of oncology, this book furthers understanding of medical oncology practice and facilitates professionals' treatment of cancer patients. It sets the direction for future research in the field, and will become the readers' regular working tool.

Corporate Environmental Strategy Nov 25 2019 This book is a first step towards understanding the complexity of corporate environmental strategy while explaining the relationships between the numerous dimensions of the concept. When we think of corporate environmental strategy, we usually have in mind a dull and stereotypical statement issued by the CEO, addressing aspects such as pollution reduction, stakeholder dialogue, and unfailing care for the environment. However, genuine environmental protection relies on proactive policies, managerial commitment, cleaner technologies, and advanced management procedures. The author identifies a series of environmental strategy dimensions, some of which have been thoroughly researched in the literature, whereas others have only emerged in recent years. The main dimensions presented in this book include corporate environmental performance; environmental accounting and disclosure; environmental management practices; greening the supply-chain; environmental values and responsibility; green entrepreneurship and innovation; environmental training, culture and policies; and environmental legitimacy and reputation. For each dimension, the author develops a discussion framework, which provides the necessary operational definitions, methodological implications, and practical situations in which these constructs can be used. Each section contains a visual representation of the relationships between the

dimensions of corporate environmental strategy and the actions of decision-makers and relevant stakeholders.

Legumes Mar 10 2021 Legumes have high potential for improving the nutritional quality of foods, but limited data on their bioactive compounds exists. Results of clinical and epidemiological studies suggest that natural antioxidants can protect us against oxidative stress that is closely associated with cancer and cardiovascular disease. Legumes are a valuable source of bioactive compounds such as phenolic compounds, peptides and non-nutritional factors. They are rich in several important micronutrients, including potassium, magnesium, folate, iron, and zinc, and are an important source of protein in vegetarian diets. They are among the only plant foods that provide significant amounts of the amino acid, lysine. Commonly consumed legumes are also rich in total and soluble fibre as well as in resistant starch. This book provides a comprehensive overview of the antioxidant activity and health aspects of legumes. The international spread of contributors will describe the key factors that influence consumer acceptance of legumes in the diet, as well as the known functional properties of legumes and legume based food products. It will serve as an excellent and up-to-date reference for food scientists, food chemists, researchers in human nutrition, dietetics and the chemistry of natural compounds.

L. A. Baseball Sep 28 2022 Like all of America, Los Angeles first caught baseball fever in the 19th Century. The sport that writers dubbed the national pastime soon spread to every part of the Southland. Members of Riverside's Cahuilla Indian tribe played ball, Issei immigrants from Japan played besuboru, Mexican American kids played béisbol. African American players from the Negro Leagues gathered for wintertime training, while talented local ballplayers stocked the rosters of Major League teams: Fred Snodgrass, Walter Johnson, John "Chief" Meyers, Gavy Cravath. As the game, the Los Angeles Angels and the Hollywood Stars of the Pacific Coast League provided an exciting and entertaining brand of Minor League baseball. The arrival of the Dodgers from Brooklyn in 1958, a controversial decision that continues to be debated to this day, finally brought Major League Baseball to L.A. (with the Angels arriving in the American League in 1961). The Los Angeles Public Library's photo collection supplied the images for this book (and the accompanying exhibition). Many of the pictures were originally published in the Valley Times and Herald-Examiner newspapers. Others came from the groundbreaking "Shades of L.A." project. Together, they capture L.A.'s unique contribution to the national pastime: famous players and anonymous weekend warriors; changes in uniform style and ballpark architecture; and the timeless essence of a game roiled by social change. Play Ball!

Nanotechnology for Light Pollution Reduction Aug 23 2019 Light is essential for living organisms; however, excessive light causes adverse health conditions. This book covers the most recent progress on nanotechnology for reducing light pollution, discussing many approaches and technologies for controlling light pollution. The book explores the fundamentals of light and the causes of light pollution, delving into light pollution's social, economic, and ecological impacts, its effects on living beings and the environment, as well as possible solutions and methods of control. The text discusses smart lighting technology, covering the various smart nanomaterials, nanosensors, and nanodevices involved. It also explores smart lighting involving natural light from the sun, artificial skydomes, shadow-free/secondary light sources,

and the basics of many emerging devices such as light-emitting diodes and photosensors. Nanotechnology is key to providing a new route for the next generation of lighting devices and systems with reduced light pollution. This essential reference illuminates emerging technologies and their applications, providing new directions to scientists, researchers, and students to better understand the principles, technologies, and applications of nanotechnology in light pollution.

Handbook of the river Plate, by M.G. & E.T. Mulhall May 24 2022

Xenobiotica Sep 04 2020

Glaucoma Imaging Jun 20 2019 This atlas offers a truly comprehensive update on the use of imaging technologies for the diagnosis and follow-up of glaucoma. In addition to standard automated perimetry, gonioscopy, fundus photography, and stereophotography, other advanced, high-resolution methods for imaging the eye in glaucoma are explained in detail, including ultrasound biomicroscopy, confocal scanning laser ophthalmoscopy, scanning laser polarimetry, and spectral domain optical coherence tomography. The role of the various tests and the keys to optimizing their use in clinical practice are detailed with the aid of high-quality figures in order to enable the reader to achieve the best possible performance when applying these tools. The risk of developing visual disability and blindness as a consequence of glaucoma varies widely among affected individuals. Personalized testing strategies and tailored therapeutic interventions are required to effectively reduce visual impairment due to glaucoma. *Glaucoma Imaging* will assist residents, researchers, and clinicians in improving their ability to understand and integrate the information obtained using traditional techniques with the reports provided by computer-assisted image instruments.

Little Bustard: Ecology and Conservation Jul 22 2019 This book is devoted to the Little Bustard, a medium sized Palearctic steppe bird whose distribution ranges from the Iberian Peninsula to Central Asia. At present, the European population is suffering a severe decline mainly due to agricultural intensification, although its status and concerns in non-European countries are relatively unknown. In spite of this dramatic situation, the Little Bustard is an interesting model species for topics as varied as phylogeny, life history evolution and demographic traits, sexual selection and lekking behavior, habitat selection, intra- and interspecific relationships, or interaction with farming and other anthropogenic disturbances. This book provides an updated, interdisciplinary, and worldwide review of the most recent information of this crucial species in the Palearctic steppe-bird community, from specific biological aspects and traits to research-focused management. Some of the most prominent scientists from different fields (systematics, breeding ecology, behavior, competence, predation, population dynamics, farming, conservation) update and synthesize the existing information on a singular, threatened and vulnerable species.

The Organic Chemistry of Drug Design and Drug Action Apr 30 2020 Standard medicinal texts are organized by classes of drugs with an emphasis on descriptions of their pharmacological effects. This book represents a new approach based on physical organic chemical principles and reaction mechanisms that rationalized drug action and allows the reader to extrapolate to many related classes of drug molecules.

Tropical Conservation Sep 16 2021 The tropics and subtropics are home to about 75% of the global human population. Cultural, economic, and political circumstances vary

enormously across this vast geography of some 170 countries and territories. The regions not only harbor the world's poorest countries but their human populations are growing disproportionately faster than in temperate zones. Some countries are developing rapidly -- Brazil, China, India, and Mexico being obvious examples, while others still remain in the poverty trap. This region contains an astonishing proportion of global biodiversity; some 90% of plant and animal species by some measures. Its contribution to human well-being is astounding. It was the birthplace for our species; and it hosts a myriad of plant and animal species which products feed us, keep us healthy, and supply us with a variety of material goods. The tropics and subtropics are also a natural laboratory where some of humanity's most important scientific discoveries have been made. Such biodiversity has enormous implications for research priorities, capacity building, and policy to address the challenges of conserving this region. *Tropical Conservation: Perspectives on Local and Global Priorities* drew the majority of its contributors from this growing pool of scientists and practitioners working in Latin America, Africa, and Asia. It introduces important conservation concepts and illustrates their application as the authors directly capture real world experiences in their home countries in preventing biodiversity loss and sustaining ecological health. Today, no part of the world can be viewed in isolation, and we further codify and integrate a range of approaches for addressing global threats to nature and environmental sustainability, including climate change and emerging diseases. Five sections structure the major themes.

Maramor Sep 23 2019

Trichoderma And Gliocladium, Volume 2 Apr 23 2022 Fungi belonging to the genera *Trichoderma* and *Gliocladium* are soil- bourn saprophytes which have been used for industrial and agricultural applications for decades. Some strains produce enzymes and antibiotics while others are useful as biological agents for the protection of plants against pathogens. This second volume of two describes the commercial uses of *Trichoderma* and *Gliocladium*, beginning with an in depth discussion of the degradation of polysaccharides and macromolecules by fungal enzymes. The application of the fungi in biocontrol for agricultural purposes is then examined. The final section of this volume deals with protein production and the utilisation of *Trichoderma* enzymes by various industries.

SOCER WORLD 2012/2013 Apr 11 2021

Catalogue of Accessioned Publications Jan 20 2022