
Saasta Undergraduate Bursary Form 2015

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Biomining
Democratization of Expertise?

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Solar Astrophysics Springer Science & Business Media

Biomining is the use of microorganisms in the recovery of metals from ores. During bioleaching, metals such as copper, nickel or zinc are oxidized through microbial action from the water-insoluble sulfide to the soluble sulfate forms. Although gold is inert to microbial action, microbes can also be used in gold recovery from certain types of ores because as they oxidize the ore, they open up its structure, thereby allowing a gold-solubilizing agent such as cyanide to penetrate the ore. The book describes several industrial bioleaching and biooxidation processes as well as the underlying theory and biology of the microbes involved.

Biomass Utilization AFRICAN SUN MeDIA

This proceedings volume represents the culmination of nearly three years of planning, organizing and carrying out of a NATO Advanced Study Institute on Biomass Utilization. The effort was initiated by Dr. Harry Sobel, then Editor of Biosources Digest, and a steering committee representing the many disciplines that this field brings together. . When the fiscal and logistical details of the original plan could not be worked out, the idea was temporarily suspended. In the spring of 1982, the Renewable Materials Institute of the State University of New York at the College of Environmental Science and Forestry in Syracuse, New York revived the plan. A number of modifications had to be made, including the venue which was changed from the U.S.A. to Portugal. Additional funding beyond the basic support provided by the Scientific Affairs Division of NATO had to be obtained. Ultimately there were supplementary grants from the Foundation for Microbiology and the Anne S. Richardson Fund to assist student participants. The New York State College of Forestry Foundation, Inc. provided major support through the Renewable Materials Institute. The ASI was held in Alcabideche, Portugal from September 26 to October 9, 1982. Eighty participants including fifteen principal lecturers were assembled at the Hotel Sintra Estoril for the program that was organized as a comprehensive course on biomass utilization. The main lectures were supplemented by relevant short papers offered by the participants.

Die Suid-Afrikaanse wiskunde-olimpiade UNESCO

The subject of advanced materials in catalysis brings together recent advancements in materials synthesis and technologies to the design of novel and smart catalysts used in the field of catalysis. Nanomaterials in general show an important role in chemical processing as adsorbents, catalysts, catalyst supports and membranes, and form the basis of cutting-edge technology because of their unique structural and surface properties. *Advanced Catalytic Materials* is written by a distinguished group of contributors and the chapters provide comprehensive coverage of the current literature, up-to-date overviews of all aspects of advanced materials in catalysis, and present the skills needed for designing and synthesizing advanced materials. The book also showcases many topics concerning the fast-developing area of materials for catalysis and their emerging applications. The

book is divided into three parts: Nanocatalysts – Architecture and Design; Organic and Inorganic Catalytic Transformations; and Functional Catalysis: Fundamentals and Applications. Specifically, the chapters discuss the following subjects: Environmental applications of multifunctional nanocomposite catalytic materials Transformation of nanostructured functional precursors using soft chemistry Graphenes in heterogeneous catalysis Gold nanoparticles-graphene composites material for catalytic application Hydrogen generation from chemical hydrides Ring-opening polymerization of poly(lactic acid) Catalytic performance of metal alkoxides Cycloaddition of CO₂ and epoxides over reusable solid catalysts Biomass derived fine chemicals using catalytic metal bio-composites Homoleptic metal carbonyls in organic transformation Zeolites: smart materials for novel, efficient, and versatile catalysis Optimizing zeolitic catalysis for environmental remediation *African Space Strategy* John Wiley & Sons

At the young age of fifteen, Dikgang Moseneke was imprisoned for participating in anti-apartheid activities. During his ten years of incarceration, he completed his schooling by correspondence and earned two university degrees. Afterwards he studied law at the University of South Africa. After some years in general legal practice and at the Bar, and a brief segue into business, Moseneke was persuaded that he would best serve the country's young democracy by taking judicial office. *All Rise* covers his years on the bench, with particular focus on his fifteen-year term as a judge at South Africa's apex court, the Constitutional Court, including as the deputy chief justice. His insights into the Constitutional Court's structures, the personalities peopling it, the values it embodies, the human dramas that shook it and the cases that were brought to it make for fascinating reading. From the Constitutional Court of Arthur Chaskalson to the Mogoeng Mogoeng era, Moseneke's understated but astute commentary is a reflection on the country's ongoing but not altogether comfortable journey to a better life for all.

Knowledge as Enablement Juta and Company Ltd

This book aims to examine multiple literary texts and works by applying various cultural and literary theories & criticism. The application of these theories helps in deciphering novel meanings and understanding of the textual elements. The book encompasses texts and articles from the literary canon as well as contemporary literature from around the world which offer a broader perspective on the interaction between various socio-cultural elements that shape literary works. It aims to understand the formation of new meanings and paradigms that emerge out these literary analyses and reviews. This book is a great resource for all the students, academicians and critics who are looking for recent perspectives on different literary texts and works.

Aboriginal and Torres Strait Islander Education John Wiley & Sons

This book presents state-of-the-art environmental remediation processes. Environmental protection and management is a global concern, especially in the context of industrial regions. Over the years, several conventional, engineering-based physicochemical decontamination methods have used in the remediation of polluted sites. However, these methods are expensive and have limited efficiency. Drawing on research and examples from around the world, this book offers a

comprehensive review of and insights into green technologies and sustainable remediation alternatives. It discusses the emerging importance of nanotechnology, chemo and biosensors, indicator species, microbe-based remediation of organic compounds, and ex-situ remediation methods. Addressing the growing global need for a holistic overview of the environmental remediation of polluted sites, it will appeal to teachers, researchers, scientists, capacity builders, and policymakers. It also serves as additional reading material for undergraduate and graduate students of biotechnology and environmental sciences.

Careers in Science & Engineering Cambridge University Press

An book for children about the evolution of skin colour.

Advanced Catalytic Materials Nova Science Publishers

Written for students in high school or undergraduate programs, *Careers in Science & Engineering* explores a variety of growing fields to help young adults gain a head start in learning more about the many career opportunities available for those who want to pursue a career in science or engineering.

Accessing Post-School Studies Springer Science & Business Media

Engineering of nanophase materials and devices is of vital interest in electronics, semiconductors and optics, catalysis, ceramics and magnetism. Research associated with nanoparticles has widely spread and diffused into every field of scientific research, forming a trend of nanocrystal engineered materials. Electrochemical methods are widely used for the preparation of nanoparticles and the electrochemical properties of such nanomaterials are most relevant for their applications. This comprehensive reference work will appeal to advanced graduate students and researchers in the field specialized in electrochemistry, materials physics and materials science.

The University of the Future NYU Press

Notovitch's biography of Saint Issa, in which he asserts that Jesus Christ spent many of his missing years traversing India, is presented here. A Crimean Jewish adventurer and explorer of India, Notovitch traveled widely across the East in the late nineteenth century. He claimed to have discovered a biographical document in Hemis Monastery - located in modern-day India - from which he created this book. The bold and fantastical claims about Christ attracted attention from scholars of Christianity and the popular media of the time. Spotting inconsistencies in Notovitch's account, it was only after being confronted with these that he apparently confessed to having fabricated the biography of Jesus Christ. For some years the entire matter was considered a hoax; until the Indian mystic Swami Abhedananda visited the Hemis Monastery where a monk confirmed that Notovitch had stayed some six weeks there, convalescing with a broken leg, whereupon he read the disputed documents concerning Christ.

The Life of Saint Issa Springer Science & Business Media

New technologies are made possible by new materials, and until recently new materials could only be discovered experimentally. Recent advances in solving the crystal structure prediction problem means that the computational design of materials is now a reality. *Computational Materials Discovery* provides a comprehensive review of this field covering different computational methodologies as well as specific applications of materials design. The book starts by illustrating how and why first-principle calculations have gained importance in the process of materials

discovery. The book is then split into three sections, the first exploring different approaches and ideas including crystal structure prediction from evolutionary approaches, data mining methods and applications of machine learning. Section two then looks at examples of designing specific functional materials with special technological relevance for example photovoltaic materials, superconducting materials, topological insulators and thermoelectric materials. The final section considers recent developments in creating low-dimensional materials. With contributions from pioneers and leaders in the field, this unique and timely book provides a convenient entry point for graduate students, researchers and industrial scientists on both the methodologies and applications of the computational design of materials.

Science by Women John Wiley & Sons

This revised edition of *Solar Astrophysics* describes our current understanding of the sun - from its deepest interior, via the layers of the directly observable atmosphere to the solar wind, right out to its farthest extension into interstellar space. It includes a comprehensive account of the history of solar astrophysics, along with an overview of the key instruments throughout the various periods. In contrast to other books on this topic, the choice of material deals evenhandedly with the entire scope of important topics covered in solar research. The authors make the advances in our understanding of the sun accessible to students and non-specialists by way of careful use of relatively simple physical concepts. The book offers an incisive, reliable, and well-planned look at all that is fascinating and new in studies of the sun.

All Rise Demos

This book provides a roadmap for those embarking on a career in STEM, whether in the research or industry realms. Focusing on paths taken by women, the contributors lend their stories, tips and tricks, and hardships they faced entering into fields historically dominated by men. The authors provide practical advice, highlighting soft skills that are not often taught as modules in the classroom. Topics include research collaborations, performance enhancement, the gender lens in research design and development, imposter syndrome felt by many women in science, ethics in science, scaling feminine leadership, being an influencer as a science leader, and time and resources optimization for career advancement in science from resource-poor settings. Others interested in science and its impacts on society will also find the book informative and timely. As an important part of the Organization for Women in Science in the Developing World (OWSD), University of Port Harcourt Branch Book project, the work hopes to inspire women and men, girls and boys to enter and apply themselves to secure the future in STEM.

White Paper on Arts, Culture, and Heritage Springer Nature

Why do we need to communicate science? Is science, with its highly specialised language and its arcane methods, too distant to be understood by the public? Is it really possible for citizens to participate meaningfully in scientific research projects and debate? Should scientists be mandated to engage with the public to facilitate better understanding of science? How can they best communicate their special knowledge to be intelligible? These and a plethora of related questions are being raised by researchers and politicians alike as they have become convinced that science and society need to draw nearer to one another. Once the persuasion took hold that science should open up to the public and these questions were raised, it became clear that coming up with

satisfactory answers would be a complex challenge. The inaccessibility of scientific language and methods, due to ever increasing specialisation, is at the base of its very success. Thus, translating specialised knowledge to become understandable, interesting and relevant to various publics creates particular perils. This is exacerbated by the ongoing disruption of the public discourse through the digitisation of communication platforms. For example, the availability of medical knowledge on the internet and the immense opportunities to inform oneself about health risks via social media are undermined by the manipulable nature of this technology that does not allow its users to distinguish between credible content and misinformation. In countries around the world, scientists, policy-makers and the public have high hopes for science communication: that it may elevate its populations educationally, that it may raise the level of sound decision-making for people in their daily lives, and that it may contribute to innovation and economic well-being. This collection of current reflections gives an insight into the issues that have to be addressed by research to reach these noble goals, for South Africa and by South Africans in particular.

Science Communication in South Africa African Minds

The Knowledge Translation Toolkit provides a thorough overview of what knowledge translation (KT) is and how to use it most effectively to bridge the "know-do" gap between research, policy, practice, and people. It presents the theories, tools, and strategies required to encourage and enable evidence-informed decision-making. This toolkit builds upon extensive research into the principles and skills of KT: its theory and literature, its evolution, strategies, and challenges. The book covers an array of crucial KT enablers--from context mapping to evaluative thinking--supported by practical examples, implementation guides, and references. Drawing from the experience of specialists in relevant disciplines around the world, The Knowledge Translation Toolkit aims to enhance the capacity and motivation of researchers to use KT and to use it well. The Tools in this book will help researchers ensure that their good science reaches more people, is more clearly understood, and is more likely to lead to positive action. In sum, their work becomes more useful, and therefore, more valuable.

The Public Communication of Science Springer Nature

Best Sellers - Books :

- [The Alchemist, 25th Anniversary: A Fable About Following Your Dream By Paulo Coelho](#)
- [Rich Dad Poor Dad: What The Rich Teach Their Kids About Money That The Poor And Middle Class Do Not!](#)
- [It Ends With Us: A Novel \(1\)](#)
- [Little Blue Truck's Springtime: An Easter And Springtime Book For Kids By Alice Schertle](#)
- [The Shadow Work Journal: A Guide To Integrate And Transcend Your Shadows](#)
- [My First Library : Boxset Of 10 Board Books For Kids](#)
- [Playground](#)
- [The Psychology Of Money: Timeless Lessons On Wealth, Greed, And Happiness](#)
- [Goodnight Moon](#)
- [Leigh Howard And The Ghosts Of Simmons-pierce Manor By Shawn M. Warner](#)

This book examines challenges and applications, as well as principles of capillary electrophoresis. Some of the topics discussed include the preparation and application of photosensitive capillary electrophoresis coatings; the application of capillary zone electrophoresis to trace analyses of inorganic anions in seawater; theoretical principles and applications of high performance capillary electrophoresis; and the application of capillary zone electrophoresis methods for polyphenols and organic acids to separate different extracts.

The Visible Scientists CRC Press

A collection of citations of the district's early settlers buried in Greens Plains West, Kadina, Moonta and Wallaroo Cemeteries

Electrochemistry of Nanomaterials Springer Science & Business Media

Aboriginal and Torres Strait Islander Education: An Introduction for the Teaching Profession prepares students for the classroom and community environments they will encounter when teaching Aboriginal and Torres Strait Islander children in urban, rural and remote schools at early childhood, primary and secondary levels. The book addresses many issues and challenges faced by teacher education students and assists them to understand the deeper social, cultural and historical context of Aboriginal and Torres Strait Islander education. This is a unique textbook written by a team of highly regarded Aboriginal and Torres Strait Islander academics. Each chapter opens with an engaging anecdote from the author, connecting learning to real-world issues. This is also the first textbook to address Torres Strait Islander education. Written in an engaging and accessible style, Aboriginal and Torres Strait Islander Education is an essential resource for teacher education students.

Capillary Electrophoresis (CE) UJ Press

Accompanying CD-ROM contains ... "the original technical report and summary, as well as high-level technical information and graphics."--Page 4 of cover.

Ulwembu Royal Society of Chemistry

"The use of space-based products and services to provide critical spatial information for decision-making purposes would have contributed to achieving the Millennium Development Goals, and will be valuable in our efforts to achieving the Sustainable Development Goals."--Page 6.