

Ameenah Gurib-Fakim
Jacobus Nicolaas Eloff *Editors*

Chemistry for Sustainable Development in Africa



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Vuyisile Msila

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Chemistry For Sustainable Development In Africa:

Chemistry for Sustainable Development in Africa Ameenah Gurib-Fakim, Jacobus Nicolaas Eloff, 2012-08-16

Chemistry for Sustainable Development in Africa gives an insight into current Chemical research in Africa It is edited and written by distinguished African scientists and includes contributions from Chemists from Northern Southern Western Eastern Central and Island state African Countries The core themes embrace the most pressing issues of our time including Environmental Chemistry Renewable Energies Health and Human Well Being Food and Nutrition and Bioprospecting and Commercial Development This book is invaluable for teaching and research institutes in Africa and worldwide private sector entities dealing with natural products from Africa as well as policy and decision making bodies and non governmental organizations

Chemistry for Sustainable Development in Africa Ameenah Gurib-Fakim, Jacobus Nicolaas

Eloff, 2012-08-17 Chemistry for Sustainable Development in Africa gives an insight into current Chemical research in Africa It is edited and written by distinguished African scientists and includes contributions from Chemists from Northern Southern Western Eastern Central and Island state African Countries The core themes embrace the most pressing issues of our time including Environmental Chemistry Renewable Energies Health and Human Well Being Food and Nutrition and Bioprospecting and Commercial Development This book is invaluable for teaching and research institutes in Africa and worldwide private sector entities dealing with natural products from Africa as well as policy and decision making bodies and non governmental organizations

Schooling for Sustainable Development in Africa Heila Lotz-Sisitka, Overson

Shumba, Justin Lupele, Di Wilmot, 2016-11-11 This book considers the scope and dynamics of Education for Sustainable Development ESD and learning in schools in Africa It explores the conditions and processes that support such learning and examines how ESD in schooling can improve the quality and relevance of education The quality of education has been defined internationally as a key concern for educational institutions around the world including schools in Africa The models of quality are often limited to performance based approaches and or inclusive approaches The contributions in this book show that there is more to a discussion on educational quality in Africa than performance success and or inclusion The chapters explain how ESD brings a new relevance to education in Africa and at the same time sounds the beginning of a new concept of quality education The volume presents a collection of experiences in creating and supporting quality learning processes through a variety of ESD practices

Chemistry Choon H. Do, Attila E. Pavlath, 2017-09-01 This book discusses the vital role of chemistry in everyday life It encourages readers to understand how the knowledge of chemistry is important for the development of society and a better future The text is organized into three parts Part 1 covers the historical aspects of chemistry and discusses how countless discoveries since the beginning of life on earth have benefited human beings Part 2 focuses on modern life and describes chemistry's contribution to the developments in the fields of food and agriculture energy transportation medicine and communications Part 3 emphasizes the role of chemists and educators in making the

layperson aware of the benefits of chemistry without having them to go through its complexities Written in an easy to understand manner and supplemented by ample number of figures and tables the book will cater to a broad readership ranging from general readers to experts

Africa and the Sustainable Development Goals Maano Ramutsindela, David Mickler, 2019-06-13 The book draws upon the expertise and international research collaborations forged by the Worldwide Universities Network Global Africa Group to critically engage with the intersection in theory and practice of the Sustainable Development Goals SDGs and Africa's development agendas and needs Further it argues that and demonstrates how the SDGs should be understood as an aspirational blueprint for development with multiple meanings that are situated in dynamic and contested terrains As the SDGs have substantial implications for development policy and resourcing at both the macro and micro levels their relevance is not only context specific but should also be assessed in terms of the aspirations and needs of ordinary citizens across the continent Drawing on analyses and evidence from both the natural and social sciences the book demonstrates that progress towards the SDGs must meet demands for improving human well being under diverse and challenging socio economic political and environmental conditions Examples include those from the mining industry public health employment and the media In closing it highlights how international collaboration in the form of research networks can enhance the production of critical knowledge on and engagement with the SDGs in Africa

Bioenergy and Environmental Biotechnology for Sustainable Development Akinola Rasheed Popoola, Emeka Godfrey Nwoba, James Chukwuma Ogbonna, Charles Oluwaseun Adetunji, Nwadiuto (Diuto) Esiobu, Abdulrazak B. Ibrahim, Benjamin Ewa Ubi, 2022-05-11 This book covers a range of important topics on environmental remediation biofuels and value added microbial products for environmental clean up water and wastewater recycling and sustainable wastewater treatment using microalgae Designed to document advances in biotechnology this book highlights bio resource utilization in fostering low carbon renewable energy based economies and provides new insights into chlorine disinfectant usage in water treatment wastewater treatment using microalgae etc The book will be useful reference material for scientists and researchers in the fields of microbial biotechnology and bioremediation environmental biotechnology and sustainable development climate change mitigation provision of safe water and sustainable wastewater recycling Emphasizes recent advances in bioremediation techniques towards environmental sustainability Provides detailed information on how to harness indigenous bio resources including microorganisms as bioenhancement agents for environmental remediation Introduces new frontiers in the area of wastewater treatment using microalgae important for sustainability and water safety Reviews biotechniques that could enhance higher levels of sustainability in heavily polluted environments and also provides an intelligent monitoring system for waste recycling and environmental remediation and fostering a low carbon renewable energy based bioeconomy Discusses the need for review of existing guidelines on chlorine disinfectant usage for enhanced water quality Akinola Rasheed Popoola Ph D is a Professor of Plant Pathology and the Director of the Biotechnology Centre Federal University of

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Research in Chemistry Education Liliana Mammino, Jan Apotheker, 2021-05-17 This volume emphasizes the role of chemical education for development and in particular for sustainable development in Africa by sharing experiences among specialists across the African continent and with specialists from other continents It considers all areas and levels of chemistry education gives specific attention to known major challenges and encourages explorations of novel approaches The chapters in this book describe new teaching approaches approach explorations and in class activities analyse educational challenges and possible ways of addressing them and explore cross discipline possibilities and their potential benefits for chemistry education This makes the volume an up to date compendium for chemistry educators and educational researchers worldwide

The Nanotechnology Revolution Dale A. Stirling, 2018-01-17 Nanotechnology is changing the world in a very big way but at the atomic and sub atomic level Although the roots of nanotechnology can be traced back to more than a century ago the last three decades have witnessed an explosion of nano based technologies and products This reference work examines the history current status and future directions of nanotechnology through an exhaustive search of the technical and scientific literature The more than 4000 bibliographic citations it includes are carefully organized into core subject areas and a geographic and subject index allows readers to quickly locate documents of interest Although a sense of the global reach and interest in nanotechnology can be gleaned from the reference sections of countless journal articles conference papers and books this is the only reference work providing an in depth global perspective that is ready made for nanotechnology professionals and those interested in learning more about all things nanotechnology Despite the abundance of online resources there is still an urgent need for well researched well presented concise and thematically organized reference works Instead of relying on wiki pages citation aggregators and related websites the author searched the databases and databanks of scholarly literature search providers such as EBSCO ProQuest PUBMED STN International and Thomson Reuters In addition he used select serials related databases to account for pertinent documents from countries in which English is not the primary national

language i e China Online Journals e periodica J STAGE and SciELO Brazil among others [Africa in the Twenty-First Century](#) Gashawbeza Bekele,Adebayo Oyebo,2018-12-04 This book interrogates contemporary debates controversies achievements challenges and future prospects of African development and democratization from varied theoretical perspectives The diverse issues and sub themes addressed in this volume include tenets of democracy such as democratization democratic institutions good governance term limits minority rights and women s political participation and dynamics of development such as economic growth liberalization development strategies and models Millennium Development Goals uneven regional development sustainable development challenges transport development and management and health and development Featuring established and emerging scholars this book is a vital resource for scholars policy makers and students interested in African politics and development **Proceedings of the ... Annual Conference and ... Conference of CASTME Africa** Science Teachers Association of Nigeria. Conference,2002

Sustainable Development and Human Security in Africa Louis A. Picard,Terry F. Buss,Taylor B. Seybolt,Macrina C. Lelei,2015-04-22 Many new development initiatives have been introduced in Africa over the past few decades Each of these has been heralded as marking a new era in the continent s development However many of these initiatives have failed to produce sustained results due to numerous challenges including most importantly the lack of good governance The Africa P

The Transformative Development of Postcolonial Africa Annie Sylvie Beya Wakata,Siméon Fogue Kouam,Rosemary Tonjock Kinge,Télesphore Benoît Nguelefack,Aloysius Ngefac,2024-04-15 This book provides an opportunity for the voices of pure and natural scientists to be heard on what can be done to pull Africa from its current developmental quagmire and bring about its transformative development characterized by hallmarks that challenge the traditional definition of development The following research questions and many more are answered in this book Which development vision addresses the multidimensional problems and crises plaguing postcolonial Africa Which context specific approaches and paradigms tackle some of the problems and re write the development story of Africa What is the role of pure and natural sciences in the project of rethinking and remaking Africa Transdisciplinary reflections from development experts and authors of different disciplines provide answers to these questions among others **Chemical Issues in Biomass Burning in Sub-Saharan Africa**

Liliana Mammino,2016-02-04 Chemical Issues in Biomass Burning in Sub Saharan Africa explores all the aspects relevant to biomass burning in Sub SaharanAfrica with special focus on chemistry aspects Biomass burning implies emission of combustion products into the air including greenhouse gases and the waste loss of biomass that could beutilized as valuable material resource The extent of biomass burning in Sub Saharan Africa and the complexity of the aspects involved constitutes animportant motivation to view it as a problem deserving priorityChemical Issues in Biomass Burning in Sub Saharan Africa is aimed at undergraduates graduates and policy makers working in Chemistry Environmental Science and Science Education **New and Future Development in Biopesticide Research: Biotechnological Exploration** Surajit De

Mandal,G. Ramkumar,S. Karthi,Fengliang Jin,2022-05-03 This book discusses different approaches for successful pest management through biotechnological interventions Pest management is directly associated with the agricultural productivity The book introduces the reader to various kinds of biopesticides that have been developed and are being developed for field application Chemical pesticides have been widely used to control pests and these induce pesticide resistance as well as other environmental problems This book discusses the necessity to develop alternate pest control strategies especially environment friendly and target specific biopesticides against destructive pests The book describes important aspects such as microbial biopesticides plant based biopesticides natural products that act against pests and the various other biotechnological advances and limitations of these biopesticides It provides an in depth knowledge of the latest research and development in the area of biopesticides This informative book is meant for students and researchers in the fields of biotechnology agriculture and applied microbiology

Area Studies (Regional Sustainable Development

Review): Africa - Volume II Emmanuel Kwesi Boon,2009-12-29 Area Studies Regional Sustainable Development Review Africa is a component of Encyclopedia of Area Studies Regional Sustainable Development Reviews in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Area Studies Regional Sustainable Development Review Africa discusses matters of great relevance to our world in general and to the African Continent in particular as it deals with topics such as International Cooperation for Sustainable Development in Africa Food Security in Africa Challenges and Prospects Combating Poverty in Africa Demographic Dynamics and Sustainability in Africa Protection and Promotion of Human Health in Africa Strategies for Promoting Human Development in Africa Integrating Environment into Decision Making in Africa The Planning and Management of Land Resources in Africa Combating Desertification and Drought in Africa Conservation of Biological Diversity in Africa Ecotoxicology of Stable Pollutants in African Marine Ecosystems Safe and Environmentally Sound Management of Radioactive Waste Strengthening Business and Industry for Sustainable Development in Africa Concepts and Trends in Environmental Education for Sustainable Development International Institutional Arrangements International Legal Instruments and Mechanisms Agreements Forestry Principles Focus on the Congo Basin Rainforests The Rio Declaration on Environment and Development Peace Security and Sustainable Development in Africa Literature and Culture The Sustainability Connection from an African Perspective History and Civilizations Impacts on Sustainable Development in Africa The Sustainable Development of Tourism in Africa Environmentally Displaced People These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Transforming Healthcare in Africa Robert Dibie,2025-01-14 The current available books and literature that shed light on health policies in many African countries are limited Transforming Healthcare in Africa A Comparative Analysis by Professor Robert Dibie examines the key players in the health system game in many African

countries It explores the regulatory regimes that impact the health systems such as the Ministry of Health It also provides few case studies of the relationship between the government the environment and their citizens Apart from filling the gap in the healthcare policy in African literature the authors also seek to examine the impacts of weak health policies and the inability to effectively formulate solid initiatives for capacity building that could lead to enhanced healthcare delivery for all their citizens Thus Dibie s book provides evidence to inform scholarly discussion on the best approaches to strengthen healthcare delivery and public health capacity in many African countries The book also sought to answer six research questions 1 How is healthcare delivery perceived by African countries 2 How are healthcare policies implemented in urban and rural regions or local governments in African countries 3 To what extent are current health services delivered to respond to all citizens needs in African countries 4 What is the current capacity for rural or local governments to effectively engage in health service delivery 5 How can citizens living in rural and urban regions be empowered in the health development delivery system and 6 Which is the best evidence based management system adopted to improve affordable healthcare system in many African countries It also fills the gap in the literature of health systems in Africa

Food Safety and Quality in the Global South Matthew Chidozie Ogwu, Sylvester Chibueze Izah, Nontuthuko Rosemary Ntuli, 2024-08-01 This book focuses on sustainable food systems in the Global South as highlighted by the United Nations Sustainable Development Goal 2 which seeks to end global hunger through food and nutrient security It addresses the organoleptic properties of food that contribute to food quality as well as aspects of food safety such as the systematic handling preparation packaging contamination and storage within the food system to ensure food quality is maintained while preventing food borne illnesses The book assesses the state of food quality in the Global South and promotes the establishment of critical control points for food quality monitoring and maintaining adequate nutrient levels in food while keeping out organic inorganic and synthetic contaminants The book also contains recommendations for corrective actions including consumer information systems and remedial health actions The book systematically connects food safety and quality in the Global South with broader health and sustainable development implications including the rising concern of non communicable diseases This comprehensive book delves into various aspects of food safety and quality in the Global South offering insights into challenges solutions and emerging trends across multiple disciplines This book serves as a valuable resource for academics researchers policymakers and practitioners involved in food science public health and sustainable development The diverse range of topics covered contributes to a holistic understanding of the complexities involved in ensuring safe and high quality food in the unique context of the Global South

Developing Teaching and Learning in Africa Vuyisile Msila, 2020-09-08 Developing Teaching and Learning in Africa is a collection of chapters that carry on the topical discussions on indigenous knowledges and western epistemologies African societies still aspire towards knowledge that is liberatory enhance critical thinking and decentre Eurocentrism The contributors explore these decolonial debates as they navigate ways of moving towards epistemic freedom

and cognitive justice

A New Hope for Sustainable Development in Africa, 1998

Innovations in Circular Economy

and Renewable Energy in Africa Mona-Maria Narra, Satyanarayana Narra, 2024-10-14 In many African countries access to electricity and modern energy fuels remains a significant concern Over 570 million people in Sub Saharan Africa still lack electricity and only 18% have access to modern cooking fuels The region faces immense challenges including massive debts lack of maintenance and system failures underscoring the urgent need for investment in the energy sector s transition Africa s overreliance on fossil fuels and the growing demand for energy driven by economic expansion and population growth could lead to sharp increases in greenhouse gas emissions Meanwhile urbanization economic activities and rising living standards are increasing waste production making waste management a pressing issue The absence of adequate waste treatment technologies financing and regulatory frameworks exacerbates this challenge Biomass remains a predominant energy source in Sub Saharan Africa often used in its raw state leading to health hazards from incomplete combustion However the continent s abundant agricultural residues and other energetic wastes offer a significant opportunity These can be transformed into various energy carriers helping to meet or supplement Africa s energy and fuel needs The current situation presents a unique opportunity for Africa to shift from a fossil based economy to a sustainable green economy Leveraging technology knowledge and skills can support this rapid transition and drive economic growth Innovations in Circular Economy and Renewable Energy highlights current advancements in waste management biomass utilization for energy and innovations in green hydrogen production in Africa This book showcases predominantly African research and insights first presented at the First International Conference on Circular Economy Renewable Energy and Green Hydrogen in Kumasi Ghana in September 2023 Dive into this essential resource to explore transformative waste to energy technologies the hybridization and flexibilization of renewable energy systems and the path towards a sustainable future for Africa

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