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Plants of Southern Africa 2003

Grasses of Southern Africa G. E. Gibbs Russell 1990

Plant Genetics and Biotechnology in Biodiversity Rosa Rao 2018-08-09 This book is a printed edition of the Special Issue "Plant Genetics and Biotechnology in Biodiversity" that was published in Diversity

Autoecology and Ecophysiology of Woody Shrubs and Trees Ratikanta Maiti 2016-04-08 Forest trees and shrubs play vital ecological roles, reducing the carbon load from the atmosphere by using carbon dioxide in photosynthesis and by the storage of carbon in biomass and wood as a source of energy. Autoecology deals with all aspects of woody plants; the dynamism of populations, physiological traits of trees, light requirements, life history patterns, and physiological and morphological characters. Ecophysiology is defined by various plant growth parameters such as leaf traits, xylem water potential, plant height, basal diameter, and crown architecture which are, in turn, influenced by physiological traits and environmental conditions in the forest ecosystem. In short, this book details research advances in various aspects of woody plants to help forest scientists and foresters manage and protect forest trees and plan their future research.

Autoecology and Ecophysiology of Woody Shrubs and Trees is intended to be a guide for students of woody plant autoecology and ecophysiology, as well as for researchers in this field. It is also an invaluable resource for foresters to assist in effective management of forest resources.

Fynbos Nicky Allsopp 2014 "This book provides the first synthesis of the field for 20 years, bringing together the latest ecological and evolutionary research on the South African global biodiversity hotspots of the Greater Cape Floristic Region—the iconic fynbos and succulent karoo"—Page 4 of cover.

A Scientific Bibliography of the Drakensberg, Maloti and Adjacent Lowlands Rodney Moffett 2021-04-19 This bibliography includes scientific articles on the Drakensberg, Maloti and Adjacent Lowlands published between 1808 and 2019. Although focussing on material appearing in accredited journals, there is such a wealth of information in the form of unpublished, yet traceable, reports, documents, presentations and dissertations, these are also included. The bibliography has two parts – a complete list arranged alphabetically, and the same references arranged in 33 different disciplines. These range from Palaeobotany with 17 entries, to Rock Art with 502 entries.

Ethics in Agriculture – An African Perspective Alvin van Niekerk 2005-12-05 Agriculture is the lifeblood of the majority of people in Africa. It is not just a provider of food, it is a way of life for rural people. Whilst subsistence farming is the most practiced form of agriculture, there are many parts of Africa where agriculture is highly developed and progressive. In many instances it is the very diversity of agricultural practices that raises complex problems and issues. These issues often manifest themselves in ways that create ethical dilemmas for farmers, policy-makers, academics, politicians and the general lay-person. In particular, the role of biotechnology in African agriculture has become a contentious issue. Some people hold the view that biotechnology will solve the food shortages experienced in many parts of Africa, however, there is an opposing viewpoint that Africa may become a dumping ground for technology that has not been acceptable in other parts of the world. The ethical issues in agriculture in Africa do not focus only on biotechnology. The role of nutrition in the persistence of HIV/AIDS is highly debated and sometimes controversial. Land-related issues also generate heated debates in communities and amongst policy-makers. The single core that runs through all of these and many other related issues is, what are ethically acceptable solutions to these problems? This book attempts, in simple, unambiguous terms, to discuss the most important issues in African agriculture that have an ethical thread.

Strategic Opportunism: What Works in Africa Brian John Huntley 2023-02-28 This open access book. provides a synthesis of six projects, across ten countries, each of which have been sustained for two or more decades, and which illustrate how success can be achieved regardless of systems of governance, of a nation's wealth, or of culture. Detailed narratives are presented on the key personalities that have conceived, conducted and concluded long-term projects: personal stories of vision, failure, frustration and persistence ultimately leading to success. The case studies vary widely in their geography and goals. The single-handed commitment to re-discover the last surviving populations of Giant Sable in the miombo woodlands of central Angola, through the capture, translocation and establishment of robust breeding herds of this magnificent antelope, contrasts with the massively funded, three-decade programme with over one hundred participants that reversed the annual loss to predation by feral cats of 455 000 seabirds from a sub-Antarctic island. Similarly, the foresight of Zimbabwean and Namibian ecologists to place rural communities at the centre of conservation programmes by giving value to wildlife populations and benefits to local people, transformed a land degradation problem to a socio-ecological solution. Across ten countries, building capacity in botanical collection, documentation and herbarium management expanded into a global project to place the knowledge base of Africa's flora onto an electronic data system accessible to researchers and conservation planners in even the most remote corners of the continent. None of these projects enjoyed immediate results. Each required leadership skills that combined vision, a generosity of spirit, fortuitous timing and the exploitation of unexpected opportunities.

Archaeology of African Plant Use Chris J Stevens 2016-07-01 The first major synthesis of African archaeobotany in decades, this book focuses on Paleolithic archaeobotany and the relationship between agriculture and social complexity. It explores the effects that plant life has had on humans as they evolved from primates through the complex societies of Africa, including Egypt, the Buganda Kingdom, southern African polities, and other regions. With over 30 contributing scholars from 12 countries and extensive illustrations, this volume is an essential addition to our knowledge of humanity's relationship with plants.

Guide to Publications on the Southern African Flora D. M. C. Fourie 1995

Vegetation Survey and Classification of Subtropical Forests of Southern Africa Ladislav Mucina 2017-12-19 This book highlights classification patterns and underlying ecological drivers structuring the vegetation of selected indigenous subtropical forests in South Africa. It uses original field sampling and advanced numerical data analysis to examine three major types of forest – Albany Coastal Forests, Pondoland Coastal Scarp and Eastern Scarp – all of which are of high conservation value. Offering a unique and systematic assessment of South African ecology in unprecedented detail, the book could serve as a model for future vegetation surveys of forests not only in Africa, but also around the globe.

Wild Flowers of Southeast Botswana Gwithie Kirby 2013-10-22 Review by Alexander McCall Smith: "The beauty of Botswana's wild flowers is something that always strikes the visitor to that beguiling country. These plants, though, have all the subtlety and delicacy of dry-land vegetation. They are not always obvious and dramatic; they may be tucked away and visible only when one gets up close. Gwithie Kirby's Wild Flowers of Southeast Botswana is a magnificent introduction to these beautiful plants. This is a book that anybody who visits Botswana will surely treasure." Wild Flowers of Southeast Botswana features 332

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of the most common wild flower species occurring in the region. The species have been grouped into nine sections based on the predominant colour of the flower, and a quick visual guide is provided for quickly locating them. Each species account features simple descriptions of the plant, its leaves, flowers and fruit, as well as attractive colour photographs, icons and simple leaf drawings. A nod to the cultural significance of each flower is provided via inclusion of Setswana common names, as well as a 'Notes' box, in which the traditional uses of the plants are provided.

Best Practice Guide for Compiling, Maintaining and Disseminating National Species Checklists

Research on Chrysomelidae Pierre Jolivet 2008-07-10 There are an estimated 40,000 species of chrysomelids, or leaf beetles, worldwide. These biologically interesting and often colorful organisms, such as the tortoise beetles, have a broad range of life histories and fascinating adaptations. For example, there are chrysomelids with shortened wings (brachypterous) and elytra (brachelytrous), other species are viviparous, and yet other leaf beetles have complicated anti predator-parasitoid defenses.

CRC World Dictionary of Medicinal and Poisonous Plants Umberto Quattrocchi 2016-04-19 "Following on the successes of two previous dictionary projects, the CRC World Dictionary of Plant Names and the CRC World Dictionary of the Grasses, Umberto Quattrocchi has undertaken this dictionary of economically important plants.... He has done for these plants what was so admirably done in his other works—brought the vast and scattered literature on plant names, and in this case, too, their uses, into coherent order so that the inquisitive scholar can get a foothold." —From the Foreword, Donald H. Pfister, Harvard University and Harvard University Herbaria, Cambridge, Massachusetts The CRC World Dictionary of Medicinal and Poisonous Plants: Common Names, Scientific Names, Eponyms, Synonyms, and Etymology provides the starting point for better access to data on plants used around the world in medicine, food, and cultural practices. The material found in the five volumes has been painstakingly gathered from papers of general interest, reports and records, taxonomic revisions, field studies, herbaria and herbarium collections, notes, monographs, pamphlets, botanical literature, and literature tout court. It includes sources available at various natural history libraries, floras and standard flora works, local floras and local histories, nomenclatural histories, and the International Code of Botanical Nomenclature. Much more than a dictionary, the book provides the names of thousands of genera and species of economically important plants, concise summaries of plant properties, and appropriate observations about medicinal uses. Drawing from a tremendous range of primary and secondary sources, it is an indispensable time-saving guide for all those involved with botany, herbal medicine, pharmacognosy, toxicology, medicinal and natural product chemistry, and agriculture.

Taxonomic Literature of Southern African Plants N. L. Meyer 1997

Weed Ecology and New Approaches for Management Anna Kocira 2021-09-08 Satisfying consumer needs through the production of healthy and nutritious agricultural products is a substantial challenge facing modern agriculture. However, agricultural production should be carried out with care for plant health, biological safety of products, and environmental safety while minimizing the risks to human health. Therefore, the implementation of agricultural practices while respecting these principles is very important for improving the quantity and quality of crops. Additionally, ecosystems have been altered as a result of human activities and climate change, resulting in the reduction of biodiversity and creation of new niches where pests can thrive. This is of particular importance in 2020, as the United Nations General Assembly declared this year as the International Year of Plant Health (IYPH), with "protecting plants, protecting life" as a leading subject. This Special Issue promotes the subject of plant health and emphasize the importance of preventing the spread of pests, including weeds, which cause substantial economic losses. Research articles cover topics related to the biology and harmfulness of weeds, particularly in connection with crop health, segetal weed communities and their biodiversity, and integrated methods of weed control. For this Special Issue, we welcome all types of articles, including original research, opinions, and reviews.

An Annotated Checklist of Ornamental Plants of Coastal Southern California Elizabeth May McClintock 1982

A Field Guide to the Clarens Village Conservancy Rodney Moffett 2018-12-19 With the scenic village of Clarens located on the western edge of the Maloti-Drakensberg, the Clarens Village Conservancy offers a taste of biodiversity quite special to this region: it forms an area of overlap between western arid elements, moist eastern elements, Afromontane elements, and Drakensberg alpine elements. As such, there is a treat for adventurers around every corner in this rugged environment. Thanks to active and well-managed civic organisations such as the Clarens Village Conservancy, this natural heritage will not go unappreciated. We are truly privileged to live and work in this environment, and hope that this Field Guide will inspire many visitors to come to marvel at our mountains and its treasures. Dr Ralph Clark Director: Afromontane Research Unit Qwaqwa Campus, University of the Free State Honorary Life Member: iVungu River Conservancy (KZN)

Biodiversity Loss in a Changing Planet Oscar Grillo 2011-11-16 Every ecosystem is a complex organization of carefully mixed life forms; a dynamic and particularly sensible system. Consequently, their progressive decline may accelerate climate change and vice versa, influencing flora and fauna composition and distribution, resulting in the loss of biodiversity. Climate changes effects are the principal topics of this volume. Written by internationally renowned contributors, Biodiversity loss in a changing planet offers attractive study cases focused on biodiversity evaluations and provisions in several different ecosystems, analysing the current life condition of many life forms, and covering very different biogeographic zones of the planet.

Modern Phytomedicine Iqbal Ahmad 2006-12-13 This timely and original handbook paves the way to success in plant-based drug development, systematically addressing the issues facing a pharmaceutical scientist who wants to turn a plant compound into a safe and effective drug. Plant pharmacologists from around the world demonstrate the potentials and pitfalls involved, with many of the studies and experiments reported here published for the first time. The result is a valuable source of information unavailable elsewhere.

Plants for Human Consumption 1984 Each entry includes Latin names, family, area of origin, and uses.

Systematics and Phylogeny of Weevils Rolf Oberprieler 2019-04-16 This Special Issue on the Systematics and Phylogeny of Weevils presents 31 new research papers on one of the most diverse and successful groups of animals on Earth, the beetle superfamily Curculionioidea. It was in part inspired to commemorate the extraordinary life and scientific achievements of Guillermo ("Willy") Kuschel (1918–2017), who shaped this field of science over the last century like no other weevil systematist. The papers in this memorial issue span weevil faunas from all over the globe, including South and Central America, Africa, Europe and the Near East, South-East Asia, New Guinea, Australia and New Zealand. They include major advances on the phylogeny and classification of the "broad-

nosed” weevils (Entiminae), on the weevils associated with American cycads and on the unique extinct weevil fauna preserved in the 100-million-year-old Burmese amber, when weevils started to diversify alongside the oldest angiosperm plants. They comprise a tribute to Willy Kuschel, the proceedings of a weevil symposium held in his honor in 2016 in Orlando, Florida, 24 systematic studies (including seven phylogenetic analyses) and five other contributions on the diversity, biology, distribution, evolution and fossil history of weevils. In the papers collated in this volume, 30 new genera and 92 new species of weevils are described and a new family of extinct weevils is recognized.

Research on Chrysomelidae, Volume 2 Pierre Jolivet 2009-12-21 There are an estimated 40,000 species of chrysomelids, or leaf beetles, worldwide. These biologically interesting and often colorful organisms, such as the tortoise beetles, have a broad range of life histories and fascinating adaptations. For example, there are chrysomelids with shortened wings (brachypterous) and elytra (brachelytrous), other species are viviparous, and yet other leaf beetles have complicated anti predator-parasitoid defenses. Some species, such as corn rootworms (several species in the genus *Diabrotica*) constitute major agricultural crop pests. Research on Chrysomelidae 2 is a the second volume of a series of volumes on the Chrysomelidae edited by Jolivet, Santiago-Blay, and Schmitt.

Medicinal Plants for Holistic Health and Well-Being Namrita Lall 2017-09-27 Medicinal Plants for Holistic Health and Well-Being discusses, in depth, the use of South African plants to treat a variety of ailments, including tuberculosis, cancer, periodontal diseases, acne, postmacular hypomelanosis, and more. Plants were selected on the basis of their traditional use, and the book details the scientific evidence that supports their pharmacological and therapeutic potential to safely and effectively treat each disease. Thus, this book is a valuable resource for all researchers, students and professors involved in advancing global medicinal plant research. Many plants found in South Africa are also found in other parts of the world. Each chapter highlights plants from other worldwide locations so that scientists can study which plants belong to the same family, and how similar qualities can be used to treat a specific disease. Uses traditional medicine as an efficient means to identify and further investigate South African and similar plants used as lead compounds in modern drug discovery Includes a number of chapters dedicated to using medicinal plants to treat various skin disorders, which is not covered often in other books on medicinal plants Organized by specific diseases, with vital evidence-based data related to the bioactivity, pharmacological potential, chemical structure and safety information

DNA barcoding: a practical tool for fundamental and applied biodiversity research Zoltan T Nagy 2013-12-30 DNA barcoding has become a well-accepted and popular tool for the identification of species and the detection of cryptic taxonomic diversity. As such, it has a tremendous potential for a wide variety of applications in taxonomy, agronomy, conservation biology, forensics etc. Therefore, several countries, institutions and organizations have launched DNA barcoding projects in the context of the international “Consortium for the Barcode of Life” (CBOL) initiative. Also Belgium has done so with the establishment of the FWO research community “Belgian Network for DNA barcoding”. In 2012, this network organized the “Third European Conference for the Barcode of Life” (ECBOL3) in Brussels. During this event a call was made to publish a collection of papers under the thematic title “DNA barcoding: a practical tool for fundamental and applied biodiversity research?”. With the financial support of the EC project “VIBRANT” (Virtual Biodiversity Research and Access Network for Taxonomy), 21 papers were bundled to form this special “ZooKeys” issue with the aim to present various applications, advantages and limitations of DNA barcoding. Hence, it is the editors’ hope that this issue provides a modest, but timely, contribution to the already vast literature on DNA barcoding.

Novel Plant Bioresources Ameenah Gurib-Fakim 2014-04-03 Novel Plant Bioresources: Applications in Food, Medicine and Cosmetics serves as the definitive source of information on under-utilized plant species, and fills a key niche in our understanding of the relationship of human beings with under-utilized plants. By covering applications in food, medicine and cosmetics, the book has a broad appeal. In a climate of growing awareness about the perils of biodiversity loss, the world is witnessing an unprecedented interest in novel plants, which are increasingly prized for their potential use in aromas, dyes, foods, medicines and cosmetics. This book highlights these plants and their uses. After an introductory section which sets the scene with an overview of the historical and legislative importance of under-utilized plants, the main four parts of the book are dedicated to the diverse potential application of novel plant bioresources in Food, Medicine, Ethnoveterinary Medicine and Cosmetics. Examples and contributors are drawn from Africa, Europe, the USA and Asia. The economic, social, and cultural aspects of under-utilized plant species are addressed, and the book provides a much needed boost to the on-going effort to focus attention on under-utilized plant species and conservation initiatives. By focusing on novel plants and the agenda for sustainable utilization, Novel Plant Bioresources highlights key issues relevant to under-utilized plant genetic resources, and brings together international scholars on this important topic.

Kalanchoe (Crassulaceae) in Southern Africa Gideon F. Smith 2019-10-19 Kalanchoe (Crassulaceae) in Southern Africa: Classification, Biology, and Cultivation provides a highly readable, illustrated account of the Kalanchoe species. The book includes an overview of the family Crassulaceae and genus Kalanchoe in global and subcontinental contexts that is followed by information on the taxonomic history of the genus. The characters and ecology of the species are also discussed, including their distribution ranges, where they occur, their habitat preferences, and where the species were formally recorded for the first time. For each indigenous and naturalized species, comprehensive taxonomic, descriptive and other information of interest is provided. This is the must-have resource for plant scientists, plant taxonomists, ethnobotanists, herbarium curators, ecologists, pharmacologists, invasions scientists, horticulturalists and landscape designers. Includes currently accepted scientific names and synonyms, common names in English, morphology, cytology, chemistry, toxicology, biogeography, pollination biology, dispersal, cultivation, biocultural applications, and more Contains a dichotomous identification key and descriptions, providing much needed tools for accurate species identification Provides an extensive sets of illustrations for all species

The Plants of Sudan and South Sudan Iain Darbyshire 2015

Harvesting Plant and Microbial Biodiversity for Sustainably Enhanced Food Security Laurent Laplaze 2018-03-19 The World population will reach 9 billion by 2050, with the majority of this growth occurring in developing countries. On the other hand, one in nine of the World’s population suffers from chronic hunger, the vast majority of which live in developing countries. We therefore need to find new and sustainable solutions to feed this increasing population and alleviate the predicted negative impact of global changes on crop production. This e-Book deals with new strategies to improve food security and livelihoods in rural communities, reduce vulnerability, increase resilience and mitigate the impact of climate change and land degradation on agriculture. This collection of 18 articles addresses the major abiotic factors limiting crop production worldwide, how to characterize and exploit the available plant biodiversity to increase production and sustainability in agrosystems, and the use of beneficial microbes to improve production and reduce the use of fertilizers and pesticides.

The South African Herbal Pharmacopoeia Alvaro Viljoen 2022-11-24 The South African Herbal Pharmacopoeia: Monographs of Medicinal and Aromatic Plants is a collection of 25 original monographs of medicinal plants that are currently under commercialization or have the potential for commercialization into herbal medicinal products for the global marketplace. Chapters include a general overview covering synonyms, common names, conservation status, botany, geographical distribution, ethnopharmacology, commercialization, pharmacological evaluation, chemical profiling and quality control, including HPTLC fingerprint analysis, UPLC analysis, gas chromatography and mid-infrared spectroscopy analysis. Academics researching pharmacy and analytical chemistry will benefit from the detailed chemical profile on each species presented. Industrial manufacturers of herbal products, herbal medicines, cosmetics, food supplements, and national and international policymakers and regulators will benefit from the overview provided at the beginning of each chapter. Provides a comprehensive, up-

to-date literature review on 25 medicinal plants of South Africa Documents quality control protocols for chemical fingerprinting and biomarker identification in plant material Includes updated safety profiles of medicinal plants

Butterflies of the Kruger National Park and Surrounds Herbert Otto 2015-03-12 Butterflies of the Kruger National Park and Surrounds enables identification of these colourful creatures and hopes to promote general interest in the natural world. A lavish and fascinating introduction raises topics such as classification of Lepidoptera, butterfly behavior, names, biology and life cycle, flower adaptations, larval host plants, etc. Each family is first described, then the subfamily, followed by the genus and finally the species. Each of the known KNP butterfly species is dealt with on its own page, with its common and scientific names, life history, etymology and larval host plants. On the opposite page is a gallery of photographs of the butterfly in its environment, often complemented with life cycle and larval host plant photographs. A distribution map is provided for each butterfly species, with red dots indicating KNP rest camps where the butterfly is found, and a pie chart showing the butterfly’s status – how rare or how common it is.

Bothalia 2006

Edible Alliums Haim D. Rabinowitch 2022-11-22 Allium crops include more than 30 species, many of which (for e.g. onions, shallots, garlic, leeks, bunching onions, and chives) are of economic importance. Bulb onions rank second only to tomatoes in terms of global production. Alliums are farmed and harvested in a range of climatic conditions worldwide, forming important parts of local diets. This book provides a comprehensive review of major and minor Allium crops from scientific and horticultural perspectives. It broadly covers modern biology (including genetics and breeding), propagation, production, processing, and nutritional and health benefits. This is an essential resource for scholars, researchers and students in plant science and agriculture, in addition to molecular biologists, plant breeders, agronomists, consultants, and extension specialists.

Medicinal and Magical Plants of Southern Africa T. H. Arnold 2002

Plant Names Roger Spencer 2007 Introduces the reader to the world of plant names in an easy to read style.

Medicinal and Aromatic Plants of the World - Africa Volume 3 Mohamed Neffati 2017-09-07 This volume in the series is devoted to Africa, a continent that possesses a vast treasure of medicinal plants and has produced some exclusive materials for the world market. This volume is expected to strengthen the medicinal plant sector in African countries by making comprehensive information on medicinal and aromatic plants available to policy-makers and entrepreneurs. It can be used to frame effective policies and create an environment conducive to the growth of the plant-based medicine industry, bringing economic benefit to African nations. It will help health organizations to improve the health of their people by using their own resources and a less expensive system of medicine, which is accepted by African society. It could also lead scientific communities to increase R&D activities in the field.

Ferns of Southern Africa Neil R Crouch 2012-07-24 This comprehensive guide to the ferns of southern Africa (covering South Africa, Swaziland, Lesotho, Botswana and Namibia) throws new light on a fascinating category of plants that is little known by the general public . User-friendly and accessible, it will enable quick and sure identification of all 321 ferns known to occur in the region. Each species features a double-page spread with a full plate of photographs (including close-ups); informative line drawings where necessary; clear text descriptions; tables that highlight differences between similar-looking species; and distribution maps based on years of intensive fieldwork. In addition, there are identification keys to families, genera and species. To compile this book the authors travelled extensively and took some 30 000 photographs, even finding several new species of fern. They are all treated in this guide – some described here for the first time. This unique and beautiful volume will become the standard reference book on the ferns of southern Africa.

A Scientific Bibliography of the Far Northern Drakensberg Rodney Moffett 2023-04-14 This Scientific Bibliography of the “Far Northern Drakensberg” is a continuation by the Afromontane Research Unit of the University of the Free State (ARU) to document published and other similar works on the mountains of the summer rainfall area of South Africa. It follows “A Scientific Bibliography of the Drakensberg, Maloti and Adjacent Lowlands” which was published in 2020 (Moffett 2020), and which covered the area between the North-Eastern Cape and the North-Eastern Free State. The current work extends this northward by including articles and publications dating back to 1875 (E.Cohen, on the Lydenburg goldfields) reaching as far as the Wolkberg and Woodbush near Tzaneen in Limpopo Province. Figure 1 shows the boundary of the area covered, and although referred to as the Far Northern Drakensberg in this work, it is identical to that described as the LMEE, Limpopo, Mpumalanga & Eswatini Escarpment by Clarke et al (2022). Although slightly separate from the “lower” escarpment, the mountainous Barberton and adjacent Eswatini area, as well as the Leolo Mountains in eastern Sekhukhuleni are also included. Details on how the boundary in figure 1 was determined are given in Clark et al (2022). Bibliographies on two further ranges in the summer rainfall area, viz. the Magaliesberg in Gauteng province and the Soutpansberg in Limpopo province are to be the subject of future compilations.

AQUATIC AND WETLAND PLANTS OF BOTSWANA C. N. Kurugundla 2023-04-29 An anthology of aquatic plants is an excellent collection of knowledge about anything in fresh, marine, or polluted waters. This pictorial guide deals with aquatic and wetland plants from the Okavango to the transboundary rivers to the rainwater ponds and dams. Organized and written in a way that will make information easily accessible to specialists and non-specialists alike. The guide/book highlights the diversity and vital ecological importance of the group of plants, providing descriptions and identification keys for emergent, floating-leaved, and submerged aquatic plants found in Botswana. They serve as a source of food and shelter for the aquatic fauna, thus forming the basis of aquatic wildlife conservation practices. They are economically useful in providing medicinal and aesthetic value. Aquatic plants prevent and maintain erosion, water turbidity, and the source of oxygen in the water. Information on invasive plants, such as Kariba/salvinia weed, water lettuce, and water hyacinth that threaten Botswana’s aquatic ecosystems, is briefly described. In total, 194 plant species are presented in the guide. All technical terms are explained in a

comprehensive glossary. This is the first such flora to cover aquatic and wetland plants for the entire geographical area, excluding grasses and sedges. It will suit a large age range, from little ones who want to look at the pictures to primary school children. If you have an explorer’s spirit and a thirst for finding something new, then aquatic life will never disappoint. The physical book itself is stunning, with a handsome cover with common water lily that makes it pretty enough to sit on the coffee table but entertaining enough to keep kids glued to the pages. When the two characters from a different native, who rose in the same city of Aizawl, meet and fall in love during PUC, his jealous gay friend circles a rumor and tries to interfere in their affairs. Her love sadly feels unrequited due to his shy and reclusive nature followed by some tragic incidents that make all her attempts go in vain. She also doesn’t understand his gesture of acceptance and things remain in a state of oblivion for a long time. Her sedulousness doesn’t allow giving up on him even after they part ways to pursue their higher studies. But her naiveness again fails her in catching his clues before he turns into a severe hophead after his mother’s demise. A lot changes in their lives by the time he comes close to expressing his hidden love for her and is about to propose for marriage. Despite both being settled in the South, every time some divine energy would stop them from meeting in one place. Unease in his mind, he starts revealing his feelings and relevant secrets after his marriage and comes to a point when she learns how life had been unkind to both of them and they begin expressing their regrets. It is a tragic love story that starts with love and ends with friendship. After reading the book, you might wonder whether they will remain just as incomplete stories that are waiting to be completed like how they called themselves.