

Advances In Potato Chemistry And Technology

Luc Avérous, Eric Pollet

Advances in Potato Chemistry and Technology Jaspreet Singh, Lovedeep Kaur, 2009-07-22 Developments in potato chemistry, including identification and use of the functional components of potatoes, genetic improvements and modifications that increase their suitability for food and non-food applications, the use of starch chemistry in non-food industry and methods of sensory and objective measurement have led to new and important uses for this crop. Advances in Potato Chemistry and Technology presents the most current information available in one convenient resource. The expert coverage includes details on findings related to potato composition, new methods of quality determination of potato tubers, genetic and agronomic improvements, use of specific potato cultivars and their starches, flours for specific food and non-food applications, and quality measurement methods for potato products. * Covers potato chemistry in detail, providing key understanding of the role of chemical compositions on emerging uses for specific food and non-food applications * Presents coverage of developing areas, related to potato production and processing including genetic modification of potatoes, laboratory and industry scale sophistication, and modern quality measurement techniques to help producers identify appropriate varieties based on anticipated use * Explores novel application uses of potatoes and potato by-products to help producers identify potential areas for development of potato variety and structure

Potato Science and Technology G. Lisinska, W. Leszczynski, 1989-07-31 This book is an excellent starting point for students and should be read by all concerned with the industry, researchers, growers, traders and processors - Journal of Agricultural Science.

Potato Breeding: Theory and Practice John E. Bradshaw, 2021-04-09 The potato (*Solanum tuberosum*) is the world's fourth most important food crop after maize, rice and wheat with 377 million tonnes fresh-weight of tubers produced in 2016 from 19.2 million hectares of land, in 163 countries, giving a global average yield of 19.6 t ha⁻¹ (<http://faostat.fao.org>). About 62% of production (234 million tonnes) was in Asia (191), Africa (25) and Latin America (18) as a result of steady increases in recent years, particularly in China and India. As a major food crop, the potato has an important role to play in the United Nations "2030 Agenda for Sustainable Development" which started on 1 January 2016 (<http://faostat.fao.org>). By 2030 the aim is to "ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious and sufficient food all year round". By then, the world population is expected to reach 8.5 billion and continue to increase to 9.7 billion in 2050. For potatoes, the need is to increase production and improve nutritional value during a period of climate change, a key aspect of which will be the breeding of new cultivars for a wide range of target environments and consumers. The aim of the book is to help this endeavour by providing detailed information in three parts on both the theory and practice of potato breeding. Part I deals with the history of potato improvement and with potato genetics. Part II deals with breeding objectives, divided into improving yield, quality traits and resistance to the most important diseases and pests of potatoes. Part III deals with breeding methods: first, the use of landraces and wild relatives of potato in introgression breeding, base broadening and population improvement; second, breeding clonally propagated cultivars as a way to deliver potato improvement to farmers' fields; third, as an alternative, breeding potato cultivars for propagation through true potato seed; and fourth, gene editing and genetic transformation as ways of making further improvements to already successful and widely grown cultivars. Included are marker-assisted introgression and selection of specific alleles, genomic selection of many unspecified alleles and diploid F1 hybrid breeding.

Snack Foods Sergio O. Serna-Saldivar, 2022-04-20 The diverse segments of the snack industries that generate close to \$520 billion of annual sales are adapting to new consumer's expectations, especially in terms of convenience, flavor, shelf life, and nutritional and health claims. *Snack Foods: Processing, Innovation, and Nutritional Aspects* was conceptualized to thoroughly cover practical and scientific aspects related to the chemistry, technology, processing, functionality, quality control, analysis, and nutrition and health implications of the wide array of snacks derived from grains, fruits/vegetables, milk and meat/poultry/seafood. This book focuses on novel topics influencing food product development like innovation, new emerging technologies and the manufacturing of nutritious and health-promoting snacks with a high processing efficiency. The up-to-date chapters provide technical reviews emphasising flavored salty snacks commonly used as finger foods, including popcorn, wheat-based products (crispbreads, pretzels, crackers), lime-cooked maize snacks (tortilla chips and corn chips), extruded items (expanded and half products or pellets), potato chips, peanuts, almonds, tree nuts, and products derived from fruits/vegetables, milk, animal and marine sources. Key Features: Describes traditional and novel processes and unit operations used for the industrial production of plant and animal-based snacks. Depicts major processes employed for the industrial production of raw materials, oils, flavorings and packaging materials used in snack food operations. Contains relevant and updated information about quality control and nutritional attributes and health implications of snack foods. Includes simple to understand flowcharts, relevant information in tables and recent innovations and trends. Divided into four sections, *Snack Foods* aims to understand the role of the major unit operations used to process snacks like thermal processes including deep-fat frying, seasoning, packaging and the emerging 3-D printing technology. Moreover, the book covers the processing and characteristics of the most relevant raw materials used in snack operations like cereal-based refined grits, starches and flours, followed by chapters for oils, seasoning formulations and packaging materials. The third and most extensive part of the book is comprised of several chapters which describe the manufacturing and quality control of snacks mentioned above. The fourth section is comprised of two chapters related to the nutritional and nutraceutical and health-promoting properties of all classes of snacks discussed herein.

Starch: Chemistry and Technology Roy L. Whistler, James N. BeMiller, Eugene F. Paschall, 2012-12-02 *Starch: Chemistry and Technology*, Second Edition focuses on the chemistry, processes, methodologies, applications, and technologies involved in the processing of starch. The selection first elaborates on the history and future expectation of starch use, economics and future of the starch industry, and the genetics and physiology of starch development. Discussions focus on polysaccharide biosynthesis, nonmutant starch granule polysaccharide composition, cellular developmental gradients, projected future volumes of corn likely to be used by the wet-milling industry, and organization of the corn wet-milling industry. The manuscript also tackles enzymes in the hydrolysis and synthesis of starch, starch oligosaccharides, and molecular structure of starch. The publication examines the organization of starch granules, fractionation of starch, and gelatinization of starch and mechanical properties of starch pastes. Topics include methods for determining starch gelatinization, solution properties of amylopectin, conformation of amylose in dilute solution, and biological and biochemical facets of starch granule structure. The text also takes a look at photomicrographs of starches, industrial microscopy of starches, and starch and dextrans in prepared adhesives. The selection is a vital reference for researchers interested in the processing of starch.

Handbook of Vegetable Preservation and Processing Y. H. Hui, E. Özgül Evranuz, 2015-11-05 The second edition of a bestseller, *Handbook of Vegetable Preservation and Processing* compiles the latest developments and advances in the science and technology of processing and preservation of vegetables and vegetable products. It includes coverage of topics not found in similar books, such as nutritive and bioactive compounds of vegetables; veg

Root and Tuber Crops J.E. Bradshaw, 2010-09-11 It is important to include Tuber and Root Crops in the Handbook of Plant Breeding. They include starchy staple crops that are of increasing importance for global food security and relief of poverty, important millennium goals for the United Nations. Indeed, 2008 was the UN International Year of the Potato in recognition of this role of the potato as the world's third most important food crop after wheat and rice. The other major staples are cassava, sweetpotato and yam. Together they occupy about 50 million hectares, with production at 640 million metric tons, of which 70% is in developing countries. In total there are more than 30 species of Root and Tuber Crops grown in the world today. Given the content of other volumes in the series, it makes sense to include sugar and fodder beets; swedes and turnips; and minor root and tuber crops so that the book series is as complete as possible. Like the other volumes in the series, this one will present information on the latest in applied plant breeding using the current advances in the field, from an efficient use of genetic resources to the impact of biotechnology in plant breeding. Seven crop specific chapters are proposed, together with an introduction to this diverse set of plant species. Outstanding scientists for each crop species are proposed as senior authors, who may invite co-authors to contribute part of a chapter. In order to increase the overall acceptance of the volume, balance will be sought with authors from different research groups/countries who will be asked to contribute and collaborate where appropriate. The book should be of interest to researchers in both academic and industrial settings, and in both developed and developing countries, as well as students and teachers of plant breeding. It is currently extremely important to educate and train a new generation of plant breeders given the challenges faced

by humankind in producing more food for an expanding global population during a period of environmental (including climate) change.

Production of Biofuels and Chemicals with Ultrasound Zhen Fang, Richard L. Smith, Jr., Xinhua Qi, 2014-11-26 Conversion of biomass into chemicals and biofuels is an active research and development area as trends move to replace traditional fossil fuels with renewable resources. By integrating processing methods with ultrasound and microwave irradiation into biorefineries, the time-scale of many operations can be greatly reduced while the efficiency of the reactions can be remarkably increased so that process intensification can be achieved. "Production of Biofuels and Chemicals with Ultrasound" and "Production of Biofuels and Chemicals with Microwave" are two independent volumes in the Biofuels and Biorefineries series that take different, but complementary approaches for the pretreatment and chemical transformation of biomass into chemicals and biofuels. The volume "Ultrasound" provides current research advances and prospects in mechanistic principles of acoustic cavitation in sonochemistry, physical and chemical mechanisms in biofuel synthesis, reactor design for transesterification and esterification reactions, lipid extraction from algal biomass, microalgae extraction, biodiesel and bioethanol synthesis, practical technologies and systems, pretreatment of biomass waste sources including lignocellulosic materials, manures and sludges for biogas production, vibration-assisted pelleting, combined chemical-mechanical methods, valorization of starch-based wastes and techno-economic methodology. Each of the 12 chapters has been peer-reviewed and edited to improve both the quality of the text and the scope and coverage of the topics. Both volumes "Ultrasound" and "Microwave" are references designed for students, researchers, academicians and industrialists in the fields of chemistry and chemical engineering and include introductory chapters to highlight present concepts of the fundamental technologies and their application. Dr. Zhen Fang is Professor in Bioenergy, Leader and founder of biomass group, Chinese Academy of Sciences, Xishuangbanna Tropical Botanical Garden and is also adjunct Professor of Life Sciences, University of Science and Technology of China. Dr. Richard L. Smith, Jr. is Professor of Chemical Engineering, Graduate School of Environmental Studies, Research Center of Supercritical Fluid Technology, Tohoku University, Japan. Dr. Xinhua Qi is Professor of Environmental Science, Nankai University, China.

Environmental Silicate Nano-Biocomposites Luc Avérous, Eric Pollet, 2012-05-24 Environmental Silicate Nano-Biocomposites focuses on nano-biocomposites, which are obtained by the association of silicates such as bioclays with biopolymers. By highlighting recent developments and findings, green and biodegradable nano-composites from both renewable and biodegradable polymers are explored. This includes coverage of potential markets such as packaging, agriculture, leisure and the fast food industry. The knowledge and experience of more than twenty international experts in diverse fields, from chemical and biochemical engineering to applications, is brought together in four different sections covering: Biodegradable polymers and Silicates, Clay/Polymers Nano-biocomposites, Clay/Agropolymers Nano-biocomposites, and Applications and biodegradation of Nano-biocomposites. By exploring the relationships between the biopolymer structures, the processes, and the final properties Environmental Silicate Nano-Biocomposites explains how to design nano-materials to develop new, valuable, environmentally friendly properties and uses. The combination of fundamental and applied science makes this an ideal reference for a range of readers from students and lecturers to material and polymer scientists and even industrial engineers who are interested in bringing new environmental nano-materials to the current market.

Frying Technology Ajay Singh, Sajad Ahmad Wani, Pradyuman Kumar, 2023-10-09 Covering all the recently adapted developments, challenges, and other healthy approaches in the process of frying, this book provides the details of various frying technologies and discusses its operations and machinery in depth. Emphasis is placed on healthy prospects, nutritional values, and the emerging threats (e.g., acrylamide, acrolein, oxidation, rancidity and other hydroperoxides) of the frying process and effective ways to minimize them. Key Features Provides a complete guide to production and consumption of fried foods along with discussions on packaging and labeling with global perspectives Discusses textural, sensory and nutritional profiles of fried, baked, and puffed foods Explains the impact of frying on macromolecular constituents, fats/oils, starches, and proteins A cohesive exploration of food-frying technology, this book appeals to students, academicians, researchers and professionals in the fields of nutrition and food sciences.

The Potato Roy Navarre, Mark J. Pavek, 2014-12-15 Potatoes are a staple crop around the world. Covering all aspects of botany, production and uses, this book presents a comprehensive discussion of the most important topics for potato researchers and professionals. It assesses the latest research on plant growth such as tuber development, water use and seed production, covers all aspects of pest management and reviews postharvest issues such as storage, global markets, and of course, nutritional value and flavour.

Chemistry of Renewables Arno Behr, Thomas Seidensticker, 2020-10-29 This textbook introduces the industrial production and processing of natural resources. It is divided into six major topics (fats and oils, carbohydrates, lignin, terpenoids, other natural products, biorefinery), which are divided into a total of 20 chapters. Each chapter is self-contained and therefore a compact learning unit, which can be worked on by students in self-study or presented by lecturers. Clear illustrations, flow diagrams, apparatus drawings and photos facilitate the understanding of the subject matter. All chapters end with a succinct summary, the Take Home Messages. Each chapter is supplemented by ten short test questions, which can be solved quickly after working through the chapter; the answers are at the end of the book. All chapters contain bibliographical references that focus on essential textbooks and reference works. As a prior knowledge, only basic knowledge of chemistry is required.

Pulsed Electric Fields to Obtain Healthier and Sustainable Food for Tomorrow Francisco J. Barba, Oleksii Parniakov, Artur Wiktor, 2020-04-17 Pulsed Electric Fields to Obtain Healthier and Sustainable Food for Tomorrow illustrates innovative applications derived from the use of pulsed electric fields beyond microbial inactivation. The book begins with an introduction on how pulsed electric fields work and then addresses the impact of pulsed electric fields on bioaccessibility/bioavailability and the development of nutraceuticals and food additives. Other sections explore the reduction of contaminants and assess the improvement of industrial process efficiency. A final section explores patents and commercial applications. This book will be a welcomed resource for anyone interested in the technological, physiochemical and nutritional perspectives of product development and the reduction of food toxins and contaminants. The concepts explored in this book could have a profound impact on addressing the concept of food on demand, a concept that is a top priority in industry. Explores how pulsed electric field treatment affects nutrients and the retention of bioactive compounds Identifies PEF approaches and optimized, targeted processing conditions to improve food quality, bioavailability and bioaccessibility of nutrients and bioactive compounds Highlights the mechanisms influencing the reduction of toxins and contaminants during pulsed electric fields processing Explains how pulsed electric fields design can enhance sustainability throughout the food chain

Handbook of Cereals, Pulses, Roots, and Tubers Sneh Punia, Anil Kumar Siroha, Manoj Kumar, 2021-10-11 Cereals, pulses, roots, and tubers are major food sources worldwide and make a substantial contribution to the intake of carbohydrates, protein, and fiber, as well as vitamin E and B. The Handbook of Cereals, Pulses, Roots, and Tubers: Functionality, Health Benefits, and Applications provides information about commercial cereals, pulses, and their nutritional profile, as well as health benefits and their food and non-food applications. Split into four sections, this handbook covers all the recent research about the related crops and outlines matters needing further research in the field of agriculture sciences. Both qualitative and quantitative analysis of nutrients and bio-actives, and their beneficial effects on human health, are highlighted in this book. The conclusions drawn and future perspectives proposed in each chapter will also help researchers to take more focused approaches. FEATURES Covers the full spectrum of cereals, pulses, roots, and tubers grain production, processing, and their use for foods, feeds, fuels, and industrial materials, and other uses Contains the latest information from grain science professionals and food technologists alike Provides comprehensive knowledge on the nutritional and non-nutritional aspects of cereals, pulses, and tubers Discusses the latest development in modification of native starch Provides information in enhancing shelf life and its utilization in phytochemical rich product development The result of various well-versed researchers across the globe sharing their knowledge and experience, this handbook will be a valuable resource for students, researchers, and industrial practitioners who wish to enhance their knowledge and insights on cereals, pulses, roots, and tubers.

Potato Production Worldwide Mehmet Emin Caliskan, Allah Bakhsh, Khawar Jabran, 2022-10-22 Potato is a crop grown on all inhabited continents of the globe. It is included in the top five crops of the world, used as staple food in several countries, and the number of people daily consuming the potato may surpass one billion. Despite the high quantities of seed potato produced worldwide, there are yield gaps due to challenges such as abiotic stresses, pests, climate change and poor production practices. A region-wide critical analysis of yield declining factors can help formulate management

strategies that can improve potato yields. Bridging yield gaps in potato will ultimately ensure the role of this crop in securing current and future food security. Potato Production Worldwide presents information on this global crop from its history, morphology, and taxonomy to the growth and development of the potato crop, including the latest strategies in addressing today’s biotic and abiotic challenges. This book identifies the reasons for yield gaps in various potato production regions of the world, as well as presenting the best production practices, pest management strategies and approaches to deal with climate change from the perspective of potato production. Chapters provide important insights into potato production cultures and approaches in the major potato production countries. Potato Production Worldwide will be a valuable resource for researchers, scientists and students seeking a comprehensive view of successful potato production. Provides comprehensive information on the origin, history, taxonomy, morphology, ecophysiology, growth and development of the potato Addresses production practices, including irrigation, nutrient management, harvesting and post-harvest techniques Explores the impact of Abiotic stresses (drought, chilling, salinity etc.) and their management

The Potato Genome Swarup Kumar Chakrabarti, Conghua Xie, Jagesh Kumar Tiwari, 2017-12-26 This book describes the historical importance of potato (*Solanum tuberosum* L.), potato genetic resources and stocks (including *S. tuberosum* group Phureja DM1-3 516 R44, a unique doubled monoploid homozygous line) used for potato genome sequencing. It also discusses strategies and tools for high-throughput sequencing, sequence assembly, annotation, analysis, repetitive sequences and genotyping-by-sequencing approaches. Potato (*Solanum tuberosum* L.; $2n = 4x = 48$) is the fourth most important food crop of the world after rice, wheat and maize and holds great potential to ensure both food and nutritional security. It is an autotetraploid crop with complex genetics, acute inbreeding depression and a highly heterozygous nature. Further, the book examines the recent discovery of whole genome sequencing of a few wild potato species genomes, genomics in management and genetic enhancement of *Solanum* species, new strategies towards durable potato late blight resistance, structural analysis of resistance genes, genomics resources for abiotic stress management, as well as somatic cell genetics and modern approaches in true-potato-seed technology. The complete genome sequence provides a better understanding of potato biology, underpinning evolutionary process, genetics, breeding and molecular efforts to improve various important traits involved in potato growth and development.

Potato Mustafa Yildiz, 2018-06-06 Potato is the world's fourth food crop after maize, wheat, and rice and is a staple crop in many diets throughout the world with a high source of proteins, carbohydrates, minerals, and vitamins. Biotic and abiotic stress factors give rise to decrease in yield. That is why improvement of new cultivars resistant to stress factors by conventional and biotechnological methods is extremely important. The most important factor in production increase is the use of healthy seed tubers along with using drought-, heat-, and salt-tolerant cultivars. On the other hand, protection and storage of surplus crops, which are the most important stage in its marketability, are the main problems in potato. In this book, all these issues are discussed, and it is hoped that the book Potato will help growers and researchers in solving problems in potato cultivation.

The Future of Hyperspectral Imaging Stefano Selci, 2019-11-20 This book includes some very recent applications and the newest emerging trends of hyper-spectral imaging (HSI). HSI is a very recent and strange beast, a sort of a melting pot of previous techniques and scientific interests, merging and concentrating the efforts of physicists, chemists, botanists, biologists, and physicians, to mention just a few, as well as experts in data crunching and statistical elaboration. For almost a century, scientific observation, from looking to planets and stars down to our own cells and below, could be divided into two main categories: analyzing objects on the basis of their physical dimension (recording size, position, weight, etc. and their variations) or on how the object emits, reflects, or absorbs part of the electromagnetic spectrum, i.e., spectroscopy. While the two aspects have been obviously entangled, instruments and skills have always been clearly distinct from each other. With HSI now available, this is no longer the case. This instrument can return specimen dimensionalities and spectroscopic properties to any single pixel of your specimen, in a single set of data. HSI modality is ubiquitous and scale-invariant enough to be used to mark terrestrial resources on the basis of a land map obtained from satellite observation (actually, the oldest application of this type) or to understand if the cell you are looking at is cancerous or perfectly healthy. For all these reasons, HSI represents one of the most exciting methodologies of the new millennium.

Quality Breeding in Field Crops Asif M. Iqbal Qureshi, Zahoor Ahmad Dar, Shabir Hussain Wani, 2019-02-15 Development of superior crops that have consistent performance in quality and in quantity has not received the same emphasis in the field of genetics and breeding as merited. Specialty trait requires special focus to propagate. Yet basic germplasm and breeding methodologies optimized to improve crops are often applied in the development of improved specialty types. However, because of the standards required for specialty traits, methods of development and improvement are usually more complex than those for common commodity crops. The same standards of performance are desired, but the genetics of the specialty traits often impose breeding criteria distinct from those of non-specialty possessing crops. Specifically, quality improvement programs have unique characteristics that require careful handling and monitoring during their development for specific needs. Adding value either via alternative products from the large volumes of grain produced or development of specialty types is of interest to producers and processors. This work assimilates the most topical results about quality improvement with contemporary plant breeding approaches. The objective of this book is to provide a summary of the germplasm, methods of development, and specific problems involved for quality breeding. In total, fourteen chapters, written by leading scientists involved in crop improvement research, provide comprehensive coverage of the major factors impacting specialty crop improvement.

Sustainable Management of Potato Pests and Diseases Swarup Kumar Chakrabarti, Sanjeev Sharma, Mohd Abas Shah, 2022-03-16 This book covers the important diseases and pests of potato which are of global significance. The pests and diseases in potato lead to huge economic losses by reducing the yield and quality of the produce. This book describes major pests and diseases in detail with particular emphasis on the latest developments with respect to their biology, ecology, and management. It highlights the importance of virus infection for seed potato production and diagnostic symptoms, along with management guidelines. The book brings forth tips for judicious use of pesticides for sustainable potato production and management of pesticide resistance. Use of novel approaches such as RNA interference, genome editing, and other genomic resources for drug designing in diseases and pest management is also emphasized in the book. This book is of interest to teachers, researchers, extension workers, potato growers, and policy makers. Also, the book serves as additional reading material for undergraduate and graduate students of agriculture and plant pathology. National and international agricultural scientists and policy makers will also find this to be a useful read.

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Advances In Potato Chemistry And Technology Introduction

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