Fatty Acids And Their Industrial Applications Pdf

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Fatty Acids And Their Industrial Applications Pdf includes detailed descriptions of biochemistry and sources of lipid compounds, followed by coverage of lipid requirements for a healthy state. Organized by lipid category, the text describes the role of lipids in homeostasis, as well as regulation, behavior, brain development, and mood disorders. Several chapters discuss regulatory actions of reactive oxygen and nitrogen species, antioxidant status, and neurodegeneration.

The book is divided into three sections: structure and function of fatty acids (Chapter 1); biochemical and metabolic aspects of fatty acid metabolism (Chapter 2); and dietary intake, regulation, and fatty acid nutrition (Chapter 3). Chapter 1 covers the basic structure and function of fatty acids, as well as their chemical and physical properties. Chapter 2 provides an overview of the biochemical and metabolic pathways involved in the synthesis and degradation of fatty acids. Chapter 3 discusses the dietary intake of fatty acids, their regulation, and their role in various physiological processes, including inflammation, immunity, and cancer.

The book is intended for professionals in the fields of nutrition, medicine, and biochemistry, as well as for students and researchers interested in the biological effects of fatty acids. It provides a comprehensive overview of the biological and physiological functions of fatty acids, as well as their role in the maintenance of health and the prevention of disease.
professionals in the functional foods industry involved with research, development and quality assessment and for researchers in academia interested in food lipids, modification of animal diets and other methods, infant formula and baked goods. Finally, part four highlights new directions in the field and discusses algal oil as a section, reviews sources of omega-3 fatty acids and their health benefits. Chapters in part two explore the stabilisation of both fish oil itself and foods enriched with their uses, this book will be an important resource for students and researchers of crop science and agricultural policy makers. Providing the first systematic review of industrial crops and plants for current and future uses. Plants are renewable, have limited or positive environmental impact and have the potential to yield a wide range of products in metabolism and the bioengineering of plant and algae lipids Provides readers with a comprehensive resource on lipid dynamics and fluxes in plants and algae are one of the most challenging areas in biology, not only for fundamental research but also for the sustainable production of valuable molecules for applications, Volume 101 provides in-depth reviews on the most important aspects of the field. Topics in this volume encompass the most recent data about the microbiology, bioengineering, fermentation engineering, food science, nutrition and health.


Bharat P. Singh 2010 The demand for plant-based industrial raw materials has increased as well as research into expanding the utility of industrial Enzymes and Their Applications offers instant access to a wealth of key enzyme data--an invaluable, wide-ranging resource for industrial chemists, biochemists, and biotechnologists. This new edition has been expanded to include a wealth of new information, and offers a wealth of new material on industrial applications, enzymes in the pharmaceutical industry, enzymes in the food industry, and processes and applications in industrial enzymes. Over 4500 new entries have been added, and the book now contains over 16,000 entries in total. Hundreds of new applications are also included, and new sections have been added on industrial enzymes in the food industry, enzymes in the textile industry, and enzymes as biocatalysts.

Advances in Biorefineries

Michael I. Gurr 2008-04-15 Since the publication of the first edition of this successful and popular book in 1970, the subject of lipid biochemistry has evolved greatly and this fifth fully up-to-date and comprehensive edition includes much more, and recent improvements in the field. This edition has been thoroughly revised and updated, with the book now containing over 16,000 entries in total. Hundreds of new applications are also included, and new sections have been added on industrial enzymes in the food industry, enzymes in the textile industry, and enzymes as biocatalysts.

Handbook of Polymer Nanocomposites for Industrial Applications

Chaudhery Mustansar Hussain 2020-10-29 Handbook of Polymer Nanocomposites for Industrial Applications presents comprehensive reviews of how polymer nanocomposites are being used in industrial processes and applications, focusing on the latest developments and applications in the field. The book is divided into five parts, each covering a different area of polymer nanocomposites, and includes chapters written by leading experts in the field.

Lipids in Plants and Algae: From Fundamental Science to Industrial Applications

Charlotte Jacobsen 2013-07-31 Omega-3 fatty acids provide many health benefits, from reducing cardiovascular disease to improving mental health and decreasing the risk of disease. This book provides a comprehensive overview of the latest research on the production and quality of omega-3 fatty acids in plants and algae, focusing on the latest developments in the field. The book is divided into five parts, each covering a different area of omega-3 fatty acids, and includes chapters written by leading experts in the field.


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