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Application of genetic algorithm and multivariate methods for the detection and measurement of milk?surfactant adulteration by attenuated total reflection and near?infrared spectroscopy

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Agricultural and Food Science (AFSci) publishes original research reports on agriculture and food research in relation to primary production in boreal agriculture. Acceptable papers must be of international interest and have a northern dimension. The fields within the scope of the AFSci include agricultural economics, agricultural engineering, animal science, environmental science, horticulture, plant and soil science and primary production-related food science.

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The Journal of the Science of Food and Agriculture is a peer-reviewed scientific journal. It was established in 1950 and is published 15 times a year by John Wiley & Sons on behalf of the Society of Chemical Industry. The journal is included in the Index Medicus (MEDLINE).

A engaging analysis of food production in the United States emphasizing that sustainable agricultural development is important to community health.

Given the central role of the food and agriculture system in driving so many of the connected ecological, social and economic threats and challenges we currently face, *Rethinking Food and Agriculture* reviews, reassesses and reimagines the current food and agriculture system and the narrow paradigm in which it operates. *Rethinking Food and Agriculture* explores and uncovers some of the key historical, ethical, economic, social, cultural, political, and structural drivers and root causes of unsustainability, degradation of the agricultural environment, destruction of nature, short-comings in science and knowledge systems, inequality, hunger and food insecurity, and disharmony. It reviews efforts towards ‘sustainable development’, and reassesses whether these efforts have been implemented with adequate responsibility, acceptable societal and

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environmental costs and optimal engagement to secure sustainability, equity and justice. The book highlights the many ways that farmers and their communities, civil society groups, social movements, development experts, scientists and others have been raising awareness of these issues, implementing solutions and forging 'new ways forward', for example towards paradigms of agriculture, natural resource management and human nutrition which are more sustainable and just. Rethinking Food and Agriculture proposes ways to move beyond the current limited view of agro-ecological sustainability towards overall sustainability of the food and agriculture system based on the principle of 'inclusive responsibility'. Inclusive responsibility encourages ecosystem sustainability based on agro-ecological and planetary limits to sustainable resource use for production and livelihoods. Inclusive responsibility also places importance on quality of life, pluralism, equity and justice for all and emphasises the health, well-being, sovereignty, dignity and rights of producers, consumers and other stakeholders, as well as of nonhuman animals and the natural world. Explores some of the key drivers and root causes of unsustainability, degradation of the agricultural environment and destruction of nature Highlights the many ways that different stakeholders have been forging 'new ways forward' towards alternative paradigms of agriculture, human nutrition and political economy, which are more sustainable and just Proposes ways to move beyond the current unsustainable exploitation of natural resources towards agroecological sustainability and overall sustainability of the food and agriculture system based on 'inclusive responsibility'

For nearly a century, scientific advances have fueled progress in U.S. agriculture to enable American producers to deliver safe and abundant food domestically and provide a trade surplus in bulk and high-value agricultural commodities and foods. Today, the U.S. food and agricultural enterprise faces formidable challenges that will test its long-term sustainability, competitiveness, and resilience.

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On its current path, future productivity in the U.S. agricultural system is likely to come with trade-offs. The success of agriculture is tied to natural systems, and these systems are showing signs of stress, even more so with the change in climate. More than a third of the food produced is unconsumed, an unacceptable loss of food and nutrients at a time of heightened global food demand. Increased food animal production to meet greater demand will generate more greenhouse gas emissions and excess animal waste. The U.S. food supply is generally secure, but is not immune to the costly and deadly shocks of continuing outbreaks of food-borne illness or to the constant threat of pests and pathogens to crops, livestock, and poultry. U.S. farmers and producers are at the front lines and will need more tools to manage the pressures they face. Science Breakthroughs to Advance Food and Agricultural Research by 2030 identifies innovative, emerging scientific advances for making the U.S. food and agricultural system more efficient, resilient, and sustainable. This report explores the availability of relatively new scientific developments across all disciplines that could accelerate progress toward these goals. It identifies the most promising scientific breakthroughs that could have the greatest positive impact on food and agriculture, and that are possible to achieve in the next decade (by 2030).

Includes abstracts.

Worldwide energy and food crises are spotlighting the importance of bio-based products – an area many are calling on for solutions to these shortages. Biocatalysis and Agricultural Biotechnology encapsulates the cutting-edge advances in the field with contributions from more than 50 international experts comprising sectors of academia, industry, and government research institutes, a virtual Who's Who among biocatalysis scientists. Created Under the Editorial Guidance of Leading Biotechnology Experts With the aid of numerous graphs and illustrations, this authoritative reference

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documents such important advances as: Cloning and characterization of Kennedy pathway acyltransferases Engineering of plants for industrial uses New approaches from acquired tolerance to the biotic and abiotic stress of economically important crops This comprehensive text also explores a variety of bio-based industrial products, including: The modification of enzyme character through gene manipulation The biocatalytic synthesis of chiral intermediates for drug development The use of Omega-3 phospholipid nano capsules as effective forms for transporting immune response modifiers Providing in-depth reviews of this ancient field and its modern-day advances, Biocatalysis and Agricultural Biotechnology is an invaluable lab reference for teachers, graduate students, and industrial scientists conducting research in the biosciences.

Cold Plasma in Food and Agriculture: Fundamentals and Applications is an essential reference offering a broad perspective on a new, exciting, and growing field for the food industry. Written for researchers, industry personnel, and students interested in nonthermal food technology, this reference will lay the groundwork of plasma physics, chemistry, and technology, and their biological applications. Food scientists and food engineers interested in understanding the theory and application of nonthermal plasma for food will find this book valuable because it provides a roadmap for future developments in this emerging field. This reference is also useful for biologists, chemists, and physicists who wish to understand the fundamentals of plasma physics, chemistry, and technology and their biological interactions through applying novel plasma sources to food and other sensitive biomaterials. Examines the topic of cold plasma technology for food applications Demonstrates state-of-the-art developments in plasma technology and potential solutions to improve food safety and quality Presents a

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solid introduction for readers on the topics of plasma physics and chemistry that are required to understand biological applications for foods Serves as a roadmap for future developments for food scientists, food engineers, and biologists, chemists, and physicists working in this emerging field

Sustainable Food and Agriculture: An Integrated Approach is the first book to look at the imminent threats to sustainable food security through a cross-sectoral lens. As the world faces food supply challenges posed by the declining growth rate of agricultural productivity, accelerated deterioration of quantity and quality of natural resources that underpin agricultural production, climate change, and hunger, poverty and malnutrition, a multi-faced understanding is key to identifying practical solutions. This book gives stakeholders a common vision, concept and methods that are based on proven and widely agreed strategies for continuous improvement in sustainability at different scales. While information on policies and technologies that would enhance productivity and sustainability of individual agricultural sectors is available to some extent, literature is practically devoid of information and experiences for countries and communities considering a comprehensive approach (cross-sectoral policies, strategies and technologies) to SFA. This book is the first effort to fill this gap, providing information on proven options for enhancing productivity, profitability, equity and environmental sustainability of individual sectors and, in addition, how to identify opportunities and actions for exploiting cross-sectoral synergies. Provides proven options of integrated technologies and policies, helping new programs identify appropriate existing programs Presents mechanisms/tools for balancing trade-offs and proposes indicators to facilitate decision-making and progress measurement Positions a comprehensive and informed review of issues in one place for effective education, comparison and evaluation

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A comprehensive overview of the current state of this highly relevant topic. An interdisciplinary team of researchers reports on the opportunities and challenges of nanotechnology in the agriculture and food sector, highlighting the scientific, technical, regulatory, safety, and societal impacts. They also discuss the perspectives for the future, and provide insights into ways of assuring safety so as to obtain confidence for the consumer, as well as an overview of the innovations and applications. Essential reading for materials and agricultural scientists, food chemists and technologists, as well as toxicologists and ecotoxicologists.

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