

# Tentative Outline

Special Thematic Issue for the journal : Current Nutrition & Food Science

**Title of the Thematic Issue: Advanced food processing: Green and sustainable synthesis**

*Sectional Editor: Chew Kit Wayne*

*Co-Guest Editors: Khoo Kuan Shiong, Chia Shir Reen*

## • Scope of the Thematic Issue:

The developments in food processing are essential to lead to improved safety and quality of various food and formulated food products. There has been high consumer demand for specialty and functional products which are based on clean and natural labels, containing new ingredients, alternative proteins, functional foods, bioactive formulations and health supplements. This has driven the food business to rely on advanced processing systems in the bid to create a broader range of high-value food products. However, to meet the criteria of high-value compounds, there are many challenges and problems pertaining to the cost-efficiency and feasibility methods, which has generated many research opportunities worldwide on this area.

Advanced food processing technologies plays a significant role in the production of quality food products at affordable prices. These technologies contribute by setting new applications in product development and through process optimization, a cost-effective and green solution can be achieved. Many technologies have restrictions to their maximal efficient, where continuous trials are required to attain the most economic path for production. Combining the green, sustainable and feasible technologies, used in synergistic protocols with each other, can lead to effective processing of useful food compounds. The further expansion into these areas will increase consumer awareness of the product synthesis process and form a better acceptance of the products and the technologies. With the effective design of sustainable methods for key products creation, we can address high-impact food safety challenges, and through advanced food processing technologies, we can protect consumer health as well as to provide new opportunities for food producers and processors

**Keywords:** Food processing, green, sustainable, food safety, functional food, food technology

## Sub-topics:

- Advanced technologies in food processing
- Green synthesis of food compounds and nutrients
- Sustainable routes to functional food production
- Environmental management of food processing methods
- Green industrial processing for functional food production
- Efficient methods in manufacturing high quality food products
- Industrial revolution application in food processing

## Schedule:

- ✧ Thematic issue submission deadline: 30<sup>th</sup> Sept 2023

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