## **Special Issue**

## Trends in Sustainable Food Packaging and Coatings

## Message from the Guest Editors

Packaging contributes to the preservation of food quality during transportation and storage while simultaneously eliminating the possible risks of the chemical contamination of food products and foodborne illnesses associated with the safety of food. Food coatings limit the contact of food with the environment, alter the functional properties of foods, and promote the control of food's surface moisture. Currently, the food industry mainly relies upon non-biodegradable and fossil-derived synthetic plastic materials for food packaging. A significant amount of research has been conducted and is in progress to reduce these environmental impacts, such as the development of innovative, sustainable materials and technologies for improved food packaging and coatings.

Recent progress in novel packaging, including active, intelligent, biodegradable, recyclable, or reusable packaging research:

Advances in edible coatings for fresh produce; Novel technologies for the surface modification of

biodegradable polymers applied to food packaging;

Miscellaneous relevant to sustainable packaging and coatings.

#### **Guest Editors**

Dr. Swarna Jaiswal

School of Food Science and Environmental Health, College of Sciences and Health, Technological University Dublin – City Campus, Grangegorman, D07ADY7 Dublin, Ireland

#### Dr. Amit K. Jaiswal

- Sustainable Packaging and Bioproducts Research (SPBR) Group, School of Food Science and Environmental Health, Faculty of Sciences and Health, Technological University Dublin, City Campus, Grangegorman, D07 ADY7 Dublin, Ireland
- 2. Environmental Sustainability and Health Institute, Technological University Dublin, City Campus, Grangegorman, D07 H6K8 Dublin, Ireland

### Deadline for manuscript submissions

closed (25 June 2025)



# **Coatings**

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.4



mdpi.com/si/145962

Coatings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
coatings@mdpi.com

mdpi.com/journal/coatings





## **Coatings**

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4





## **About the Journal**

## Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

#### **Editors-in-Chief**

## Prof. Dr. Wei Pan

State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

### Dr. Emerson Coy

NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

#### **Author Benefits**

### **Open Access**

 free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Ei Compendex, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Surfaces, Coatings and Films)